





FEEDBACK ACTION TAKEN REPORT

ACADEMIC YEAR

2022 - 2023



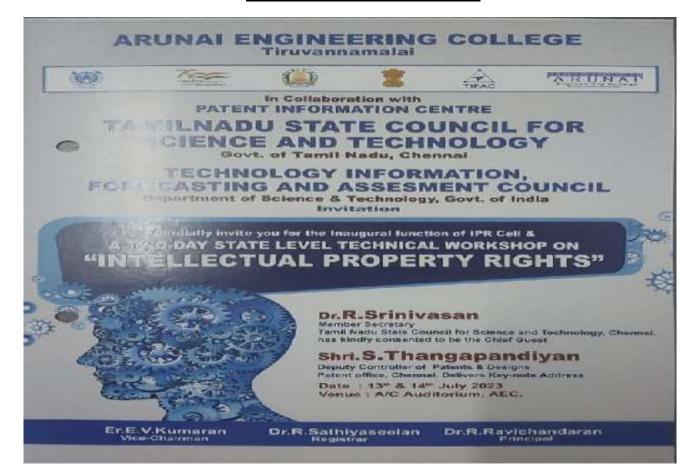
Department of Biotechnology

Date: 05.08.2023

Feedback Collected from	Number of responses	Suggestions	Action taken	Evidence	
Faculty	6	IPR awareness programs may be arranged for applying patent	Conducted a two day state level technical workshop on " intellectual Property Rights"	A two day state level technical workshop on " intellectual Property Rights" dated 13 th and 14 th July 2023	
Student	105	Prerequisite extra explanations for certain Problematic subjects and Mathematics	For easy understanding faculties are advised to put presentations slides to convey tough perceptions and workbook method is adopted for Mathematics	Work book method implemented for Mathematics subject	
Alumni	18	Practical knowledge of the students must be improved	In plant training were arranged to acquire more knowledge.	Students were motivated to participate In plant training at industries on summer holidays	
Employers	2	Students must be trained properly before attending interview.	Training and placement cell keep tracking of companies what the students going attend and mock interviews conducted on the basis of industry need.	TAP circular attached	



Department of Biotechnology



A two day state level technical workshop on "intellectual Property Rights" dated 13th and 14th July 2023



Department of Biotechnology

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Work book method implemented for Mathematics subject II year



Department of Biotechnology

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FL/TAP/22-23	TRAINING AND PLACEMENT CELL	(All arent
	CIRCULAR	
		24.03.20
Training Program' fee 31.03.2023 (3 Days).	Fairing and Pacement Cell of Arunal Engineering College is a B.C/B Tech & MBA Pre Final Year of all the departments b	organizing a "Soft Sk etwern 29.03.2023
Pla student is not attend fee is Rs 1000/ The stu	The training program is conducted by SMART Training Resou 30 PM. This training program is computery for all the Pre-kin line this program he/she must pay the training program fee denis are asked to pay the fee to the respective department . The theory classes are suspended during the training for the	The training progra
Timina : Morning Session - 9.20 a		First First Yours
Tea Break 11 00 :	are to 11 28 anti	
Iturch Break 1.00 Alternoon Session: 2.00	pm to 4 00 pm) pm to 4.30 pm)	
HOD's are asked to mak this program including (e choure all the students to attend the program and inform a	ill the students abou
Note:		
Department Placement	Coordinator are instructed to submit the details of all the Pro- lo, Name, Gender, Empil id, Mobile no and Gent, in hard cop Leell on 27.63.2023.	e Final year students was well as soft cop
Department Placement such as SLNo, Register I	Coordinator are instructed to submit the details of all the Pro in, Name, Gender, Emnil id, Mobile no and Dept, in hard cop t cell on 27.03.2022.	e Final year students y as well as soft cop
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Training and placement cell keep tracking of companies what the students going attend and mock interviews conducted on the basis of industry need.



Department of Biotechnology



Students were participated In plant training



Department of Chemical Engineering

Feedback Collected from	Number of responses	Suggestions	Action taken	Evidence
Faculty	4	more effectively.	(a) Wi-Fi facility provided at Chemical Department.(b) Faculty members are motivated to participate in FDP's	
Students	18	Students must be encouraged for industrial visit.	Students have been permitted for Industrial visit.	Attached
Alumni	15	Placement training and preparation should be offered.	The Training and Placement Cell organizes extra coaching sessions and practices.	
Employers	3	Curriculum should focus on the improvement of employment opportunities.	Organized Value-Added Certificate course for the improvement of the employment opportunities.	

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Arunai Engineering College Tiruvannamalai - 606 603

Prepared By

HOD/CHEMICAL

Wi-Fi facility provided at Chemical Department.



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	CERTIFIC	ATE OF APPR	ECIATION	
This is to certify that of		Mary Nancy	Flora R	
of	Ar	unai engineering coll	ege	
hus participated and success				and the second second second
hus participated and success Trends and innovations in I Institution's Innovation Co from 22 rd August 2022 to 7 rd	Biological Sciences" weil Chettinad A	organized by Faculty of Al	led Health Sciences in	association with Choton

Students have been permitted for Industrial visit.

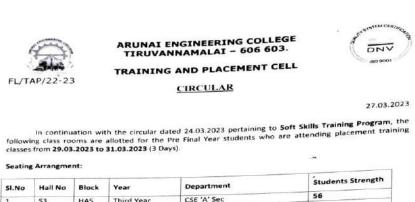


Place: Pasteur institute of India. Connor, Ooty



Place: New Neyveli thermal power station (NLC), Neyveli, Cuddalore

The Training and Placement Cell organizes extra coaching sessions and practices.



SI.No	Hall No	Block	Year	Department	Students Strenger
	63	HAS	Third Year	CSE 'A' Sec	56
1	\$3			CSE 'B' Sec	55
2	S4	HAS	Third Year		57
3	55	HAS	Third Year	IT (47) + CIVIL (10)	58
4	56	HAS	Third Year	ECE (47) + CIVIL (11)	
5	\$7	HAS	Third Year	EEE	52
6	58	HAS	Third Year	MECH	56
7	59	HAS	Third Year	Biotech (36) + CHEM (24)	60
8	510	HAS	First Year	MBA	60

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Note: 1. Department Placement Coordinator is instructed to take attendance both FN & AN Session. 2. Report the Attendance Details to Placement Cell and also give the mess strength to office.

-irculate

Copy submitted to the Vice Chairman

Regis

Copy to: Principal Registrar All HOD's Sergeant TAP File



ARUNAI ENGINEERING COLLEGE, TIRUVANNAMALAI DEPARTMENT OF CHEMICAL ENGINEERING



Batch 2019-23

PLACEMENT CLASS - ATTENDANCE

			1	17.04	27.04.2022		4.22	29.04.2022		
	L.Ne	Register No.	Student Name	FN	AN	FN	AN	FN	AN	
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	:	\$10419203002	AJAY C		-a-	-9-	- a-		- a	
	3	\$10419203003	ANBARASAN K		1	1	1	1	1	
	4	\$10419203004	ARUNACHALAM.S	(- (+	,	1	a-	-a.	
-		\$10419203005	BARAKATH ALLH	1			1	1	1	
-		\$10419203006	GUBENDIRAN S	1	1	1	· ,	1	1	
-	7	\$10419203007	JAGADISH.E	1	1	1	1	1	1	
-	8	510419203008	JAYAKUMAR J	1	1	1		1	1	
-	9	510419203009	KALAIYARASU.B	1	1	/	1	,	1	
-	10		KOTTISWARAN L	1	1	(1	/	1	
-	1000	510419203010		1	1	1	1	1	1	
-	11	510419203011	LOKESH V	1	1	1	1	1	1	
-	12	510419203012	MATHU MIDHA S	1	1	1	1	ſ	/	
	13	510419203013	MEIYARASAN.S METILDA PARIPOORANA	,	,	,	1	1	1	
	14	510419203014	MARY S		(1	1	-a-	- 0.	
T	15	510419203015	MOHAMMED THARKS	1	- (,	1	1	
-	16	510419203016	MUJAMIL S	1	/			1	1	
-	17	510419203017	PACHAIYAPPAN.S	1	1	1	- (-a-	-a.	
-	18	510419203018	PRAKASHR	1	1	/	1		1	
-	19	510419203019	SAMPATH S	1	1	1	- /		1	
1	20	510419203020	SATHYA NARAYANAN.S	1	1	(/	+ '.	1	
-	21	510419203021	SETHUM	1	1	1	1	+	1	
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-	26	510419203026	VIGNESH M	1	1	1	1	1	1	
-	27	510419203027	VISHWA K	/	(/	/	/	-	

PLACEMENT COORDINATOR

A MAN HOD-CHEMICAL ENGE

Organized Value-Added Certificate course for the improvement of the employment opportunities.

Invitation



The Management, Principal, Staff and Students of Arunai Engineering College cordially invites you to join Worksop on Organized by

Department of Chemical Engineering



Chief Guest

Tmt.K.R.Divya Sri Asst. Commissioner

Tamilnadu state disaster Management authority (TNSDMA) Chennai.

> In the Presence of **Er.E.V.Kumaran** VICE CHAIRMAN

Dr.R.Sathiyaseelan REGISTRAR

Dr.R.Ravichandran Prof. Vimal Kumar PRINCIPAL

HOD

A. Valu

Prepared By

HOD/CHEMICAL



Department of Civil Engineering

Date:05.04.2023

Feedback Collected from	Number of responses	Suggestions	Action taken	Evidence
Faculty	7	More exposure to case studies and field visits related to curriculum.	Field visits are arranged for students and staff members to gain practical knowledge.	Field visits are arranged for the students to visit Sathanur dam on 26 th September 2022.
Students	35	Need practical sessions for learning new technologies used in recent trends.	Students are encouraged to attend workshop, conference and seminar.	Students are participated in the workshop on "Uses of Steel structures in construction" on 3 rd March 2023.
Alumni	12	Suggested to provide training related to core area.	The department signed a MoU between the institution and Ladder Survey Institute of Technology (LSIT) to provide practical training related to surveying.	MoU signed between institution and Ladder Survey Institute of Technology (LSIT) on 1 st July 2022.
Employers	4	Curriculum should focus on the improvement of employment opportunities.	Organized Value Added Certificate course for the improvement of the employment opportunities.	Value Added Course was conducted on Total station from 25/07/2022 to 29/07/2022.

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HEAD OF THE OF AN DEPT.OF CIVILIED DO MAN ARUNALENGINEERING COLLEGE TIRUVANNAMALAI - 606 603

Aninai Engineering College Tiruvannamalat - 608 608



1. Field visits are arranged for the students to visit Sathanur dam on 26.09.2022.

DEPARTMENT O	F CIVIL ENGINEERING
	Date: 08.09.2022
From	
Head of the Department,	
Department of Civil Engineering	
Arunai Engineering College, Tiruvannamalai-03.	
To	
The Registrar,	
Arunai Engineering College,	
Tiruvannamalai-03.	
Through proper channel	
Respected Sir,	
Subject: Field Visit – Reg.	
We are planning to arrange one d	ay Field visit for all the students to gain practical
knowledge. The details of the visit are give	n below.
Scheduled date of field visit	: 26.09.2022
Place of Visit	: Sathanur dam
Time of start from AEC, Tiruvannamalai	: 9.30 AM
Reaching time at AEC, Tiruvannamalai	: 4.30 PM
Total No. of Students	: 66
Staff Accompanying	: 1. Mr M Balamurugan
•	2. Ms P Gayathri
	3. Mrs M Sangavi
The visit may kindly be approve	d and on-duty for the above staff may also be
anctioned. This is for your kind information	
anctioned. This is for your kind informatio	on and further action.



2. Students are participated in the workshop on "Uses of Steel structures in construction" on 3rd March 2023.



3. MoU signed between institution and Ladder Survey Institute of Technology (LSIT) on 1st July 2022.

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	RUPEES
தமிழ்நாடு तमिलनाडु TAMIL NADU စ]/07/2022 ARUNAI ENGINEERING COLLEGE TIRUVANNAMALAI	(மு.தா.வி., உரிமம் என்: 9/2008 2தீ். இ.சா.ப. அலுவலக வளாகம், திருவண்ணாமலை,

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) entered on the 01st day of July 2022

By and Between

Aranai Engineering College, having its CAMPUS at (Velunagar, Tiruvannamalai - 606603) and represented by its Principal (which expression shall mean and include its successors in office and assigns).

And

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Ladder Survey Institute Of Technology having its office at No 125, Vasantha Street, Golden George Nagar, Nerkundram, Chennai – 600107 (hereinafter referred as "LSIT" for the sake of brevity) and represented by its Chief Executive Officer (which expression shall mean and include its successors in office and assigns).

Page 1 of 6

Objectives of the Collaboration:

- To provide employable skills to the students of Arunai Engineering College.
- Make the student aware of the latest tools and techniques in order to keep them industry ready at the end of their course.
- Offer the course at an affordable price to the students of Arunai Engineering College.
- Increase the employability of the student and maximize on the placement opportunities available.
- To build and improve the confidence level of the student to face the challenges of real time.

This Memorandum of Understanding is to conduct a Unique, Step – By – Step, Systematic, and Employable Skills Development Program for the students of *Arunai Engineering College* towards achieving the objective of maximizing the employable opportunities for students of *Arunai Engineering College*.

This Memorandum of Understanding states the terms and conditions under which the Trainings shall be conducted by LSIT at the premises of *Arunai Engineering College* and lists herein the respective responsibilities of both parties.

PREAMBLE

To get a student employable and placed in an organization; over and above the subject knowledge he / she is expected to have the following:

- Strong Fundamental Engineering Knowledge
- · Engineering related Multiple Technical Skills Develop skills that add value

While Subject Knowledge would be provided by Arunai Engineering College, LSIT will equip the students with required industry specific land surveying, levels, levels transfer, benchmark setting, setting out/stake out/ marking skills.

On one hand, thousands of unemployed Engineering graduates are not finding suitable jobs, while on the other hand, Industry requires millions of young minds at all levels but are unable to find the right candidate. This is because of the skill gap that exists between the student and industry requirements. This skill gap is sought to be minimized for the students of *Arunai* Engineering College by facilitating them to acquire the appropriate and relevant skills at *Arunai* Engineering College itself through this program.

LSIT Shall Provide:

- Comprehensive LSIT reference and notes to all students for the course.
- Qualified trainers for the course.
- Periodical assessment of the progress of students for their further improvements.

Page 2 of 6

- 'Certificate of Completion' to every student who successfully completes the training program.
- "Certificate of Association" to the college.
- A "link to Arunai Engineering College website" from LSIT website www.landsurveytraining.com

Arunai Engineering College Shall Provide:

The following facilities will be provided only within Arunai Engineering College, Tiruvannamalai.

- The required number of computer systems in the lab and other required infrastructure for the practice
- The Class rooms with LCD projector for the theory classes.
- The Schedule with the classes for this training.
- The supports to ensure all students who have signed up for the class to attend the training
 programs scheduled for them.
- The relevant CAD software should be available in the computer systems.
- Disciplinary support for the smooth conduct and timely completion of the entire course.
- Minimum 25 Hours of Training time.
- Provide all support to LSIT in the marketing initiatives undertaken by LSIT to enroll students in the courses offered by LSIT Centre. Arunai Engineering College will provide all infrastructural facilities for the marketing initiatives undertaken by LSIT.
- · Boarding and Lodging facilities for the trainers.

PARTICIPANTS

The participants would be the Students of Arunai Engineering College from Civil Engineering Department and Other Deapartments from 5th & 7th Semesters mentioned in ANNEXURE.

COURSE CONTENTS

LSIT in consultation with Arunai Engineering College shall finalize the courses and fees for the skills development program. The same is provided in the Annexure. These will be reviewed every year and suitable changes, if required, will be incorporated. As the requirement of each course is different, courses and fees have been worked out separately.

TIME SCHEDULE

The programs will be conducted during the days and timings provided by Arunai Engineering College. The students will be divided into batches, depending on the total strength. The programs will be conducted according to the Time Table drawn up with the mutual consent of LSIT and Arunai Engineering College. Utmost care will be taken to frame the time table in such a way that it does not coincide with college exams enabling the student to complete his training ahead of the exams. LSIT will not conduct any classes during the time of exams. In case of any change in training schedule the same will be intimated to the Program Coordinator of *Arunai Engineering College*. Similarly, if *Arunai Engineering College* wants a change in training schedule the same may be communicated to the Programme Coordinator of LSIT. In either of the case, a revised training schedule has to be made and the Programme Coordinators of both LSIT & *Arunai Engineering College* and the respective students must be informed about the change in training schedule by means of suitable media (emails/posters/circulars/notice board displays).

Programme Coordinator

The Principal of Arunai Engineering College shall appoint a "Programme Coordinator" for the duration of the program, who shall liaise with LSIT and make the training process learner-friendly and effective. LSIT shall work in close relationship with the Programme Coordinators, who in-turn shall keep a close touch with the students. In the event of any difference of opinion between LSIT and the Programme Coordinator, the matter should be referred to the Chairman of Arunai Engineering College, whose decision thereon shall be final and binding on both the parties.

COMMENCEMENT OF COURSE

Arunai Engineering College will ensure that the courses will start within 90 (Ninety) days from the date of signing of MOU. However exception can be made due to reasons mentioned in the Course Completion Clause or due to delay on Arunai Engineering College's side.

COURSE FEES & PAYMENT PATTERN

The course fee per student for each course offered is decided and mutually agreed upon by both the parties. The course, course fee, course deiverabes, number of students & batch timings are available in the Annexure. The student shall pay the course fee directly to *Arunai Engineering College* before the start of the course. The college shall provide 40% of the total cost before the commencement of the course. The remaining 60% shall be paid at the end.

COURSE COMPLETION:

While LSIT will endeavor to complete the course as per the schedule mutually agreed upon and mentioned in Annexure, LSIT will not be responsible and accountable for delay in completing the course due to reasons which are beyond the control of LSIT. Reasons beyond the control of LSIT include – acts of God (including fire, flood, earthquake, storm, hurricane or other natural disaster), war, invasion, act of foreign enemies, hostilities (regardless of whether war is declared), civil war, rebellion, revolution, insurrection, military or usurped power or confiscation, terrorist activities, nationalization, government sanction, blockage, embargo, labor dispute, strike, lockout or interruption or failure of electricity or telephone service, failure and Page 4 of 6 non - availability of Computer Systems, non - availability of Classrooms), law and order problems, students unrest/strike/boycott, unscheduled changes in college curriculum and other unforeseen circumstances.

Course will be completed as mentioned in ANNEXURE.

While it is mandatory for the student to have undergone the complete course as mentioned in ANNEXURE to be eligible for a Course Completion Certificate. In case he/she opts out due to any reason an appropriate certificate will be issued for only for that course completed by the student. Students will not be eligible for Certification for the courses that they have not completed.

LSIT will not issue "Certificate of Completion" to the successful student, if full payment is not made. LSIT will refund the fees once paid if the student opts out or discontinues the course at any stage due to any reason.

VALIDITY

Both Arunai Engineering College and LSIT shall have the rights to terminate this MOU by providing **THREE** months notice in writing on their respective letter head only after a minimum period of 3 year. Termination of this MoU for whatever reason shall be without prejudice to the rights of either party and of the students and the ongoing academic programmes.

This Memorandum of Understanding will be valid for a period of 3 years.

This Memorandum of Understanding shall come into effect from 01st July 2022.

For: Arunai Engineering College

Name: Dr R RavichandaranDesignation: PrincipalDate: 01.07.2022



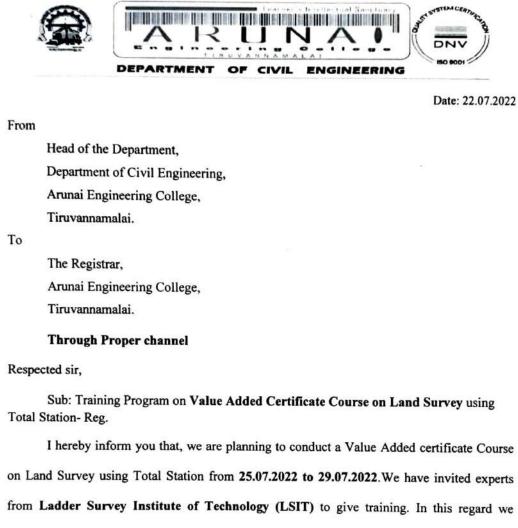
For: Ladder Survey Institute of Technology Name : Mr M R Dinesh

Designation Date : Chief Executive Officer : 01.07.2022



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4. Value Added Course was conducted on Total station from 25/07/2022 to 29/07/2022.



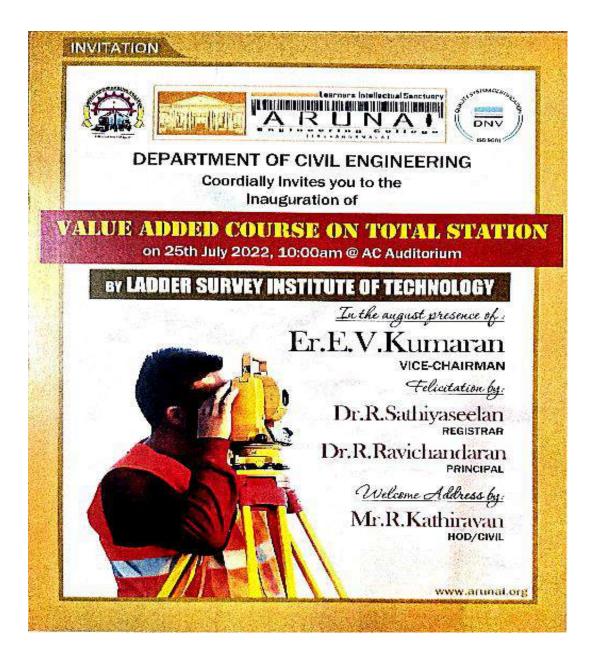
request you to permit Ladder Survey Institute of Technology (LSIT), CEO to accommodate in an Open Air Auditorium Guest Room.

Thanking you,

Yours faithfully,

R. Kathiram (R.KATHIRAVAN)

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ARUNAI ENGINEERING COLLEGE

QUALITY PROCESS DESCRIPTION ACTION TAKEN ON FEEDBACK ANALYSIS Standard: ISO 9001:2015



Format : F-FDB-02 Version : 01

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2022 - 23

Feedback Collected from	Number responses	of	Suggestions	Action taken	Evidence
Faculty	10		Textbooks for new regulation to be included in the department library	Purchase of textbook for the new regulation R-2021	Books included in department library from various publishers for R 2021
Students	120		Programmes to improve the students technical skills must be increased	Workshops and seminars were conducted with more practical demonstration	Workshops were conducted on 14.7 to 16.7.22, Data science using R conducted on 10.3.2023
Alumni	10		Apart from subject knowledge provide them some additional inputs which were suitable to sustain in industry	Webinar arranged for students to become experts in industry related topics	Webinar on institute focus on industry interaction(Projects) conducted on 03.09.2022
Employers	1		Improve the domain knowledge and to put employability skills	Workshops, certificate courses, guest lectures and seminars were conducted	One day workshop on Numpy Essentials for Data Science conducted on 01.09.2022

Prepared By

Arunai Engineering Collinson Tiruvannamalai



ARUNAI ENGINEERING COLLEGE

TIRUVANNAMALAI



Department of Computer Science and Engineering

To,

The Librarian,

Arunai Engineering College.

Respected Sir/madam,

Sub: Books for Academic year 2022-2023:-Reg.

Our department has the following subjects in III,IV,V,VI,VII and VIII. Hence we request you to make availability of those books in the central library for the student's beneficiary.

D	- 1	110	in	000
Date:1	5/	12	12	022
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S.No	Title of the book	e of the book Author Publisher		No.Of Copies	1
1.	Introducing Data Science	David Cielen, Aron D.B. Meysman and Mohamed Ali	Manning Publications, 2016	30	
	Statistics	Robert S.Witte and John S.Witte	Wiely Publications, 2017(11 Edition)	15	
	Python Data Science HandBook	Jake VanderPlas	O'Reilly,2016	30	
2.	Data Structures and Algorithm Analysis in	Mark Allen Weiss	Pearson Education ,2005(2 nd Edition)	30	~
	Introduction to Data Structures in C	Kamthane	Pearson Dducation ,2007(1st Edition)	30	
3.	Java: The Complete Reference	Herbert Schildt	McGrawHill Education, 2019(11 th Edition)	15	P.
	Introducing JavaFX 8 Programming	Herbert Schildt	McGrawHill Education, 2015(1st Edition)	15	

	Core Java Fundamentals: Volume 1	Cay S.Horstmann	Prentice Hall, 2018(11 th Edition)	30	× 1 1 1
Ι.	Introduction to Automata Theory, Languages and Computations	Hopcroft J.E., Motwani R. and	Pearson Education ,2008(3 rd Edition)	30	1
5.	Artificial Intelligence - A Modern Apporach	Ullman J.D. Stuart Russell and Peter Norvig	Pearson Education ,2021(4th Edition)	30	
	Introduction to Machine Learning	Ethem Alpaydin	MIT press, 2020(4 th Edition)	15	
	Prolog: Programming for Artificial Intelligence	I.Bratko	Addison-Wesley Educational Publishers Inc(2011)	15	1 - t - + + t
5.	Data base System Concepts	Abraham Silberschatz, Henry F.Korth, S. Sudharshan	McGrawHill Education, 2020(7 th Edition)	30	l P
	Fundamentals of Database Systems	Ramez Elmasri, Shamkant B. Navathe	Pearson Education, 2017(7 th Edition)	30	
	An Introduction to Database Systems	C.J.Date, A.Kannan, S.Swamynathan	Pearson Education, 2006 (8th Edition)	15	V .
7.	Introduction to Algorithms	Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein,	Prentice Hall of India, 2009(3 rd Edition)	30	1
1	Computer Algorithms/C++	Ellis Horowitz, Sartaj Sahni, Sanguthevar Rajasekaran	Orient Blackswan, 2019(2 nd Edition)	20	
8.	Operating System Concepts	Abraham Silberschatz, Peter Baer Galvin and Greg Gagne	John Wiley and Sons Inc., 2018.(10 th Edition)	30	1144
	Modern Operating Systems	Andrew S Tanenbaum	Pearson Education 2022. (5th Edition)	20	
9.	Data Communications and Networking	Behrouz A. Forouzan	TMH 2003(5 th Edition)	25	
10.	Applying UML and Patterns: An introduction to object oriented analysis & Design & Iterative Development	Craig Larman	Pearson, 2005(3 rd Edition)	20	
	Object Oriented Systems & Development	Ali Bahrami	McGrawHill International Edition 1999.	20	
11.	Internet and World Wide Web- How to Program	Deitel and Deitel and Nieto	Prentice Hall of India, 2011(5th Edition)	30	e: 11. 10.000
11		and the second		4	

2.	Mobile Communication	Jochen schiller	PI-II 2003(2 nd Edition)	30	
	Fundamentals of mobile computing	Prasant kumar pattnaik, Rajib Mall	PHI 2012	15	
13.	Compilers :Principles and Technique and Tools	Alfred V.Aho Monica s.Lam , Ravi sethi, Jeffrey D. Ullman	Pearson, 2009(2 nd Edition)	30	
14.	Distributed Computing:Principles Algorithms and Systems	Kashemkalyani, Ajay D. Mukesh singhal	Cambridge University press(2011)	30	
	Distributed Systems Concepts and Design	George Coulouris, Jean Dollimore and Tim Kindberg	Pearson, 2012(5 th Edition)	10	
15.	Cryptography and Network Security: Principles and Practice	William Stallings	PHI 2006(3 rd Edition)	30	_
16.	Distributed & Cloud Computing from Parallel Processing to the Internet of Things	Kai Hwang, Geoferry C. Fox, Jack G.	Morgan Kaufman Publishers 2012.	30	
	Cloud computing : Implementation ,Management and Security	Rittinghouse, John W. ,& James F. Ransome	CRC Press 2017	15	
17.	Software Testing_Principles and Practices	Srinivasan Desikan & gopalasawmy Ramesh	Pearson Education, 2006.	30	
18.	Human Computer Interaction	Alan Dix, Janet Finlay, Gregory Abowd Russell Beale	Pearson, 2004(3rd Edition)	30	_
	Mobile Design and Development	Brian Fling	O'Reilly media Inc,2009(1 st edition)	10	
	Designing Web Interfaces	Bill Scott and Theresa Neil	O'Reilly,2009(1 st Edition)	10	
19.	Modern Information retrieval; The concept and Technology behind search	Ricardo Baeza-Yates and Berthier Ribeiro- Neto	ACM Press Books 2011(2 nd Edition)	30	

-

HODIESE

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Department of Computer Science and Engineering In association with CSI Mumbai Chapter

> p mention game the passe the WEBINAR

Institute Idea Focus on Industry Interaction



Dr.Suresh A Shan Chairman CSI Mumbai Chapter, Mumbai

03.00 pm to 04.30 pm vyj-yvap-brg



www.arunai.org/coc In the Presence of

Er.E.V.Kumaran Vice Chairman

Felicitation by

Dr.R.Sathiyaseelan Registrar

Dr.R.Ravichandaran Principal

Dr.M.Jothish Kumar HOD-CSE



Tiruvannamalai,Tamil Nadu

Department of Computer Science and Engineering

Conditally institut you to join the WORKSHOP



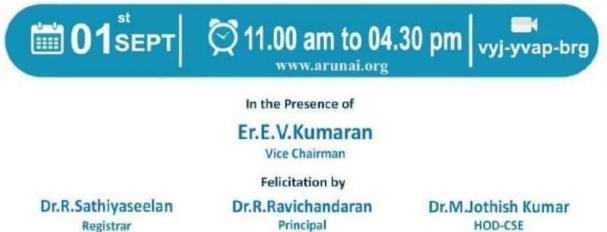
NumPy Essentials for Data Science





Mr.Atanu Roy Chowdhury Founder- Capsule Labs Kolkata

Dr.Souvik Dutta Chowdhury Subject Expert- Capsule Labs Kolkata





Department of Computer Science and Engineering

Condially invites you to join the SEMINAR

Data Science using R



Guest Speaker

Mr.M.Jeevanandham Software Trainer FIIT Formacion (P) LTD Chennai



父 02:00 pm to 4:00 pm

AC Auditorium

www.arunai.org

In the Presence of

Er.E.V.Kumaran Vice Chairman

Felicitation by

Dr.R.Sathiyaseelan Registrar Dr.R.Ravichandaran Principal

Mrs.V.Uma Devi HOD-CSE



Tiruvannamalai, Tamil Nadu

Department of Computer Science and Engineering

Contractly constra you to foir the WORKSHOP



NumPy Essentials for Data Science





Mr.Atanu Roy Chowdhury Founder- Capsule Labs Kolkata

Dr.Souvik Dutta Chowdhury Subject Expert- Capsule Labs Kolkata

шо1sept 🛱 11.00 am to 04.30 pm ууј-уvар-brg

In the Presence of

Er.E.V.Kumaran

Vice Chairman

Felicitation by

Dr.R.Sathivaseelan

Dr.R.Ravichandaran

Dr.M.Jothish Kumar



ARUNAI ENGINEERING COLLEGE



TIRUVANNAMALAI – 606 603

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2022-23

Department of Electronics and Communication Engineering

Feedback Collected from	Number of responses	Suggestions	Action taken	Evidence
Faculty	8	 The faculty members suggest that sufficient number of text/reference books is required for new regulation syllabus. Financial support is required to the faculty members for attending workshops, conferences & FDP 	 Purchased sample number of text/ reference books. Registration fees sponsored by the management for faculty members for attending workshop, conferences & FDP. 	
Students	65	 Teaching method enhancement from normal to effective using animation and videos. Arrange value added course based on current trend domain. 	 Video lecture is given to enhance the teaching methodology. Arranged value added course on recent trend. 	ATTACHED
Alumni	2	Encourage the students to attend more internship.	Students are attended internships during vacation.	
Employers	1	Students must be trained properly before attending interview.	Training and placement cell keep tracking of companies what the students going attend and mock interviews conducted on the basis of industry need.	

Prepared By

HOD-ECE Professor & Head Dept. of Electronics and Communication Engs.

PRINCIPAL

Arunai Engineering College Tiruvannamalai - 606 603



Department of Electronics and Communication Engineering

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2022-23

Library book purchase details:

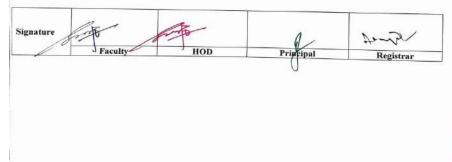
	Tale	HOOK REQUIREMEN ACADEMIC YEAR20 Author W.H. Hayt and J.A.		Edition Copies	1	JSP 🐇	JSP BOOKS BOOKSEILER AND LIBRARY EMAIL: jipbooksS@gmail. NO:26/34 V.C GARDEN II MANDAVELI CHENNAI-28	:om TREET		ICE NO:2022/	140.001
1	Electromagnetic Fields	Buck	Pearson	6 th Edition 5 2017		THE PRINCIPAL	CREDIT BILL		DEPT		136/0013
2	Network and Security	Keith, W. Ross	Pearson	4 ^m Edition 5 2015	2	ARUNAI ENGINEERING COLLEGE			DAT	: 27-2-2023	l. Second
-	Linear Integrated Circuits	Ramakant A. Gayakwad	Pearson	Second 5	1	VELU NAGAR TAMILNADU-606603	AUTHOR	PUBLISHER	PRICE QTY	AMOL	NTIN
3	Digital Signal Processing	Emmanuel C. Barrie. W. Jervis		Edition 2002 5 th Edition 5	S.NO	TITLE	AVION			1	2
4		Wayner Tomasi	Pearson	2008 5			KUROSE	PEARSON	925.00	T	-
5	Communication Systems	and the found of	Enviro Media	2010 5		1 COMPUTER NETWORKING 6TH ED	GAYAKWAD	PEARSON	579.00	5	
-	Environmental Science and	R.K. Invest	1			2 OP AMPS AND LINEAR CIRCUITS 4TH ED	GROSS AMOUNT	_	++		
6	Engineering	1					DISCOUNT-22.5%	_	++	-	
-							ROUNDOFF	-		-	
							NET AMOUNT		_		
	Sabta	,	1	HOD/ECE		(RUPEES:THREE THOUSAND FOUR HUNDRED AND N	INETY SEVEN ONLY)				_



Department of Electronics and Communication Engineering

Registration fee contributed by the management to faculty for attending workshops & conferences:

					ctual Sanctuary	1 / 10 10	5
F1F Faculty Name	1		ANCE – F	EQU	EST FORM	1	
Designation		GAO S					
Department	HOD	>					
Academic Year	ECE	-					
Financial Request to Attend (Put a Tick Mark in the Relevant Field)	Seminar	2023 Workshop	Conference	FDP	Professional Membership	NPTEL	Others (Specify
Name of the Event	Interne	tional (
Date/ Duration of the Event	23-2	4, June	onference 2023				
	Re	gistration Fee	5	2000			
	TA			2000			
Amount Spent	Accommodation/Food		ood				
	Others						
	Total			2000			
Sanctioned Amount	int 2000						





This certificate is presented to

Dr.S.ELANGO, Prof & Head,

Head of the Department/ECE

Arunai Engineering College, Thiruvannamalai, Tamilnadu, India

for presenting the research paper entitled "Satellite Image Classification with Deep Learning" in the First International Conference on Data Science and Advanced Computing (ICDSAC 2023) held at KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India during 23 - 24, June 2023.

Technical Partners







Department of Electronics and Communication Engineering

Innovative Video Lecture:

Mr.A.Arivumani Samson, AP/ECE created the following video using our ECE department students on the topic Microwave device working principle and Radiation so that the students can easily understand the concept easily.

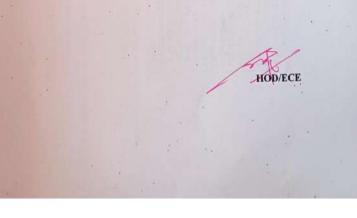
https://youtu.be/kIuZfFVRzQQ?si=v1BdP2joEYuhKAwJ

https://youtu.be/lljRHQVO1yo?si=stkHv4vybjjNELwn

	INNOV	NATENGINEERING COLLEGE TIRUVANNAMALAI DEPARTMENT OF ECE ATIVE TEACHING METHODLOGY JST OF ANIMATED VIDEOS	
SI.No	Subject name	Video link	Video topic
- 1	Electronic Circuits-1	1.https://youtu.be/-VwPSDQmdjM 2. https://youtu.be/Bfvyj88Hs_o 3.https://youtu.be/cP-toTvS53M 4. https://youtu.be/VKr9SB3cULe 5.https://youtu.be/RiRyzLl4Y8U	BJT amplifier MOSFET working N channel MOSFET Voltage divider blas Full have rectifier
2	Signals and Systems	1. https://youtu.be/H4hk6N5vClQ 2.https://youtu.be/Gj9pDC_OBQU 3. https://youtu.be/tI7sEfdnYdE 4. https://youtu.be/xJHJbo3VnmY	Continuous and discrete time signal Periodic and non periodic signal Unit step signal Static and dynamic
3	Digital Electronics	1.https://youtu.be/oSrUsM0hoPs 2.https://youtu.be/wbH2VxzmoZk 3.https://youtu.be/H_aoaQYgKT8 4.https://youtu.be/cNN_tTXABUA	Hamming Code Design of ALU How CPU Works Evolution of IC technology
4	Discrete Time Signal Processing	1.https://youtu.be/x21MBUtnZog 2. https://youtu.be/JxQigvzULQA 3.https://youtu.be/ymVvT58Po5k	Introduction to discrete time system Amplitude and frequency of limit cycle Energy and power of signal
5	Communication Networks	1.https://youtu.be/4_zSIXb7tLQ 2. https://youtu.be/-6Uoku-M6oY 3. https://youtu.be/111vxu5qIUM 4. https://youtu.be/mpQZVYPuDGU	Types of network OSI model Working of Bluetooth DNS server working
. 6	Optical Communication And Networks	1. <u>https://youtu.be/-BpXoCD0-Xc</u> 2.https://youtu.be/U3KjtSvZyRk	Introduction of optica communication Basic elements of fibe optic communication
7	Embedded and Real time systems	1.https://youtu.be/JuyWbRhhpd1 2.https://youtu.be/Opc1M-BntaM 3.https://youtu.be/R8bH_pary3Y	ARM processor UART communication Embedded system

		1.https://youtu.be/XxW2cQticsw	
8	Digital Image Processing	2. https://youtu.be/xUCsfKA8bi0 3. https://youtu.be/CCN0U1u7hMQ 4.https://youtu.be/HttmpxhyTxNo	Components of digital image processing Introduction to digital image processing
1			Digital image fundamentals Basic relation between pixels
+		1.https://youtu.be/7bDyA5t1IdU 2. https://youtu.be/md7GjQQ2YA0	Antenna fundamental Antenna fundamental directivity Antenna fundamental
10	Antenna	3.https://youtu.be/9iV_YICgifA 4.https://youtu.be/-F7KYLO4Bkg	bandwidth Antenna theory propagation
		5. https://youtu.be/gsSTgjXPD2M	electromagnetic wave Radio propagation
	10	 https://youtu.be/yShlAl2kMZw https://youtu.be/ck51Fwpz2DQ 	Radio wave and ionosphere
		1.https://youtu.be/Gvb4GIV5ig8	RC phase shift oscillator
	•	2.https://youtu.be/gbUXbaxvX94	Wien bridge oscillator
11	Electronic Circuits II	3.https://youtu.be/W6NOV6b8kxs 4.https://youtu.be/cE2-g4QsKr0	Buck converter Boost converter
-		1. https://youtu.be/0U4VVTKnZAI	Introduction to communication theory
12	Communication Theory	2.https://youtu.be/VyLU8hlhI-I 3.https://youtu.be/ljw3gW-nL0E	Hilbert transform Band pass filtering and filter Hilbert transform
-		1.https://youtu.be/HvK35jjMb51	Maxwell equation
		2.https://youtu.be/W1cTpqM9DaU	Electromagnetic waves.
. 13	Electromagnetic Fields	3. https://youtu.be/t-EhLjdAY0M 4. <u>https://youtu.be/i5N36mWsdGo</u>	Faraday law of electromagnetic induction Gauss law and electric flux
	LinearIntegratedCircuits	1https://youtu.be/35jWSQXku74 2.https://youtu.be/0PSaI1UEptU 3.https://youtu.be/f6u4giJuAxE 4.https://youtu.be/TqHme0lvvCU 5.https://youtu.be/wgvo4aTATsU	Fabrication of IC Application of OPAMP Steps of fabrication IC 555 timer IC Time delay relay circu using 555 timer IC

15	Microprocessorand Microcontrollers	1. https://youtu.be/dcNk0urQsQM 2.https://youtu.be/JwCTkm43CxQ 3.https://youtu.be/aroVqUfC168	Difference between microprocessor and microcontroller Microcontroller 8086 microprocessor
16	VLSI-design	1. https://youtu.be/iHg0mmIg0UU 2. https://youtu.be/zpOioOiKYp4 3. https://youtu.be/QWASzZmOhcQ 4. https://youtu.be/INEtYZqtjTo	FPGA Introduction to VLSI Dynamic CMOS Understanding of logic gates
17	Wireless Communication	1. https://youtu.be/u2Wt78ZJlk4 2. https://youtu.be/-rLWjSD6VnU 3. https://youtu.be/MhV6uYIFR0w 4. https://youtu.be/Se4O0mE2e30	Introduction wireless communication Cellular telephone system Handoff technique Interference in cellular system
18	Digital Communication	1.https://youtu.bc/qhij6WG7Rgc 2. https://youtu.bc/mHvV_Tv8HDQ 3. https://youtu.bc/E4E1GPftPD1M 4. https://youtu.bc/4JrryefRNFk 5.https://youtu.bc/UwWmDwbsBs	Introduction Modulation Classification of signal AM demodulation FDMA
.19	WirelessNetworks	1. https://youtu.be/I2PKJsIPObM 2.https://youtu.be/SpIZGFd-cWc 3. https://youtu.be/x3c1ih2NJEg 4.https://youtu.be/zRJzvkfSgA	Wireless technology CDMA Working of internet Mobile IP







Department of Electronics and Communication Engineering

Value added course organized:





Department of Electronics and Communication Engineering

Students attended internship:

Pantech e Learning	ERTIFICATE	
	FINTERNSHIP	
	This is to Certify that	
	DHARANI M.	
BE.ECE-	ARUNAL ENGINEERING COLLEGE.	
has Succ	essfully Completed the Internship on	
	PYTHON.	
a	t Pantech e learning Pvt. Ltd.	
Duration: Fr	om <u>24-06-2013</u> to <u>30-06-2</u>	028.
	Stil	
PAN_LAIT_40. CERTIFICATE NO	DIRECTOR, PANTECH E LEARNING WWW.PANTECHELEARNING.COM	



Department of Electronics and Communication Engineering

Additional Coaching class conducted for the final year students by training & placement cell:



ARUNAI ENGINEERING COLLEGE TIRUVANNAMALAI - 606 603.



TRAINING AND PLACEMENT CELL

CIRCULAR

16.08.2022

In continuation with the circular dated 11.08.2022 pertaining to **Placement Training Programme**, the following class rooms are allotted for the Final Year students who are attending placement training classes from **22.08.2022 to 26.08.2022** (5 Days).

Seating Arrangment:

SI.No	Hall No	Block	Year	Department	Students Strength
1	51	HAS	Final Year	EEE (41) + EIE (3) +CIVIL (16)	60
2	52	HAS	Final Year	Mech (68)	68
3	53	HAS	Final Year	CSE 'A' Sec (56)	56
4	54	HAS	Final Year	CSE 'B' Sec (53) + Auto (6)	59
5	55	HAS	Final Year	ECE (33) + CHEM (27)	60
6	S6	HAS	Final Year	IT (34) + BIOTECH (24)	58

Note:

1. Department Placement Coordinator is instructed to take attendance both FN & AN Session.

2. Report the Attendance Details to Placement Cell and also give the mess strength to office.

Registrar

Copy submitted to the Vice Chairman Copy to: Principal Registrar Director All HOD's Sergeant TAP File



Tiruvannamalai



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2022-23

Department of Electrical and Electronics Engineering

Feedback Collected from	Number responses	of	Suggestions	Action taken	Evidence
Faculty	10		Suggestion to encourage a collaborative work place	Faculty was instructed to make sure that team work was promoted in the work place. Every Tuesday research meeting was conducted.	
Students	65		The existing water facility should be improved .	1. RO plant installed in the department premises.	Attached
Alumni	10		Encourage the student to develop the industry interaction	Students are motivated to participate in internship training.	
Employers	2		Session for personality development and communication skills need to be prioritized	Soft skill programs are conducted periodically.	

Prepared By

Principal

Arunai Engineering College Tiruvannamalai - 606 603



Thiruvannamalai

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2022-23

Faculty was instructed to make sure that team work was promoted in the work place. Every Tuesday research meeting was conducted.



Dr.S.Sivakumar, HOD/EEE presented a seminar topic on cloud computing



Dr.S.Priyadharsini Associate Professor/EEE has presented a seminar topic on in Z Source inverter



Thiruvannamalai

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

RO plant installed in the department of EEE premises.



Students are motivated to participate in internship training at reputed industry



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड STEEL AUTHORITY OF INDIA LIMITED सेलम इस्पात संयंत्र SALEM STEEL PLANT

Ref No TR-15(4) / 036627/2495

29/07/2023

Certificate

Certified that Shri P MUHAMMED THASHIM, B.E(EEE), II year student of ARUNAI ENGINEERING COLLEGE, TIRUVANNAMALAI-606603 has undergone Inplant Training in the area of ELECTRICAL MAINTENANCE at Salem Steel Plant during the period from 24/07/2023 to 29/07/2023.



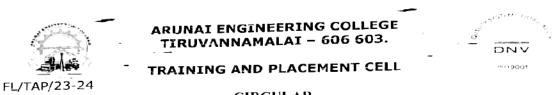
RAJALEKSHMI R R MANAGER(HRD, PR&GA)





DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Soft skill programs are conducted periodically.



CIRCULAR

07.09.2023

Final year training program is scheduled on 09.09.2023 (Saturday). All the final year students of B.E/B.Tech must attend the training program without fail.

HoD's are informed to assign a faculty/placement coordinator from your department to take attendance/monitor your students.

New Seating Arrangement:

SI.No	Hall No	Block	Year	Department	Students Strength
1	E2	ECE	Final Year	IT (47) + CIVIL (10)	57
2	E3	ECE	Final Year	ECE (46) + CIVIL (09)	55
3	E4	ECE	Final Year	MECH	58
4	E9	EEE	Final Year	EEE	51
5	E10	EEE	Final Year	Biotech (36) + CHEM (24)	60
6	E11	CSE	Final Year	CSE 'A' Sec	56
7	E12	CSE	Final Year	CSE 'B' Sec	55

Note:

- 1. Department Placement Coordinator is instructed to take attendance both FN & AN Session.
- 2. Report the Attendance Details to Placement Cell and also to office.
- 3. Faculty/Coordinator coming on Saturday can avail On-Duty later.



Copy submitted to the Vice Chairman Copy to: Principal Registrar All HOD's Sergeant TAP File

HOD/EEE



Feedback Collected from	Number responses	of	Suggestions	Action taken	Evidence
Faculty	17		Need Faculty trip	Arranged one day picnic to Pondichery	
Students	375		Need reference book in Department Library	Reference and text books arranged in department library	Attached

Prepared By

PRINCIPAL 204. Principal Arunai Engineering Colle Tiruvannamalai - 600

ATHETH

HOD-HAS Department of HAS Arunai Engineering College, Thiruvannamalal - 3.



Faculty trip



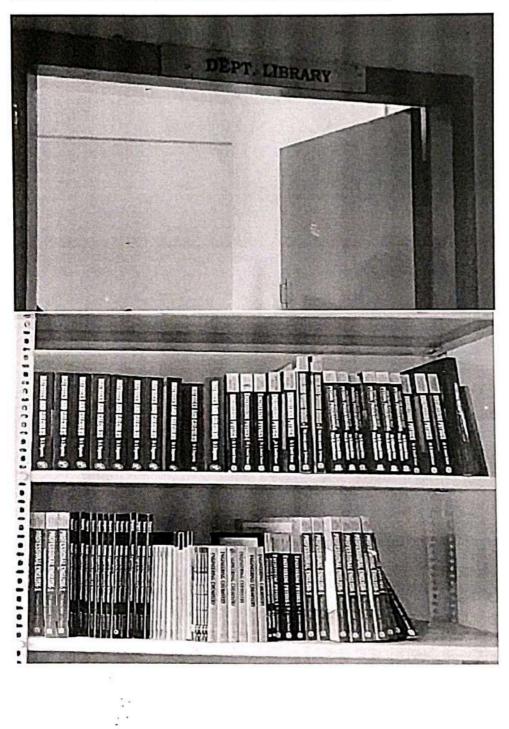




Department of Humanities and Science

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2022-23

Reference and text book arranged in Department Library





Department of Information Technology

Feedback Collected from	Number of responses	Suggestions	Action taken	Evidence
Faculty	13	1.To enhance the practical exposure of faculty members by undergoing workshop/ FDP	1.Faculty members motivate to participate various skill development programs in reputed institution	
Students	140	 Programmes to improve the student technical skill must to be increased Need additional RO water facilities in IT block 	 Guest Lecture on Software Test Automation Conducted on 22.04.22. New RO water purifier setup was installed in front of IT block 	
Alumni	120	1.Placement training and practices should be provided	1.Enhancement employability of students placement Quantitative aptitude test on C-smart assessment were organized	Attached
Employers	4	 Enhance awareness about new technologies Improve the domain knowledge and to put employability skills 	1. Value Added Course on Full Stack Web Development arranged for IT students from 06.02.23 to 10.02.23 2. Value Added Course on Application of IOT with Tinkercad arranged for IT students from 12.09.22 to 16.09.22	

repared By

IOD-IT

19.2.29

PRINCIPAL Principal Arunai Engineering College Tiruvannamalai - 606 603





DEPARTMENT OF INFORMATION TECHNOLOGY



...CHIEF GUEST...

M. Ashokkumar M.E ^{Founder} Praya lab Tiruvannamalai

Time :9:20 AM To 4:30PM

venue:Gateway lab

Course Duration 06/02/23 To 10/02/23 The Management, Principal,Staff's and Students of Arunai Engineering College cordially Invites you to join.

ADD ON COURSE ON "FULL STACK WEB DEVELOPMENT"

In the presence of ER.E.V.KUMARAN VICE CHAIRMAN

Presides by DR.R.SATHIYASEELAN REGISTRAR

Felicitation by DR.R.RAVICHANDARAN PRINCIPAL

Welcome address by DR.K.ANITHA HOD-IT





DEPARTMENT OF INFORMATION TECHNOLOGY



...CHIEF GUEST... PREM KUMAR .K

Founder Guptha Technologies, Villupuram.

Time:9.20AM To 4:30PM

Venue:Gateway Lab

Course Duration 12/9/2022 To 16/9/2022

The Management, Principal,Staff's and Students of Arunai Engineering College cordially Invites you to

join. Add on course on "Application of IOT with TINKERCAD"

In the presence of ER.E.V.KUMARAN VICE CHAIRMAN

Presides by DR.R.SATHIYASEELAN REGISTRAR

Felicitation by DR.R.RAVICHANDARAN PRINCIPAL

Welcome address by DR.K.ANITHA HOD-IT



Invitation



Department of Information Technology

& INSTITUTION INNOVATION COUNCIL OF AEC



The Management. Principal. Staff and Students of Arunal Engineering College Cordially invites you to join WEBINAR on



DATE: 22.04.22 @ 6.00 PM



Chief Guest

Mr.Vivek Kumar M

Senior Test Automation Engineer Black Buck Insight Chennai

pka-qorm-z

In the Presence of

Er.E.V.Kumaran

Felicitation by

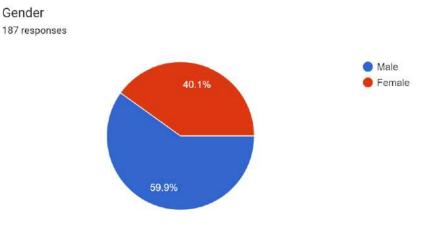
Dr.R.Sathiyaseelan

Dr.Vijayan Gurumurthy Iver

Dr.K.Anitha

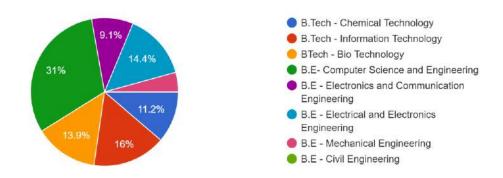
TRAINING AND PLACEMENT CELL

FEEDBACK ON SMART TRAINING PROGRAM - 07.09.2023



Branch

187 responses







Department of Mechanical Engineering

Feedback Collected from	Number of responses	Suggestions	Action taken	Evidence
Faculty	8	1.Need Research paper writing relevant Program 2.Gap between industry and institution relevant program needed	Arrange Guest lecture for research article writing and industry institution relevant program.	
Students	67	 Need more coaching class for problem solving skills and Identifying problem and formals. Need permission for Internship and In plant training program. 	 Prepared study material for problematic subjects. Given bonafide certificate for willing students. 	
Alumni	6	Need real time project exposure	Suggestion given to contact Alumni students, to know about real time project.	Attached
Employers	5	Good communication skill, Leading from front, Problem solving ability needed	Given placement training and given seminar presentation to overcome from communication problem.	

S. Re-F

Prepared By

Almphon HOD-MECH

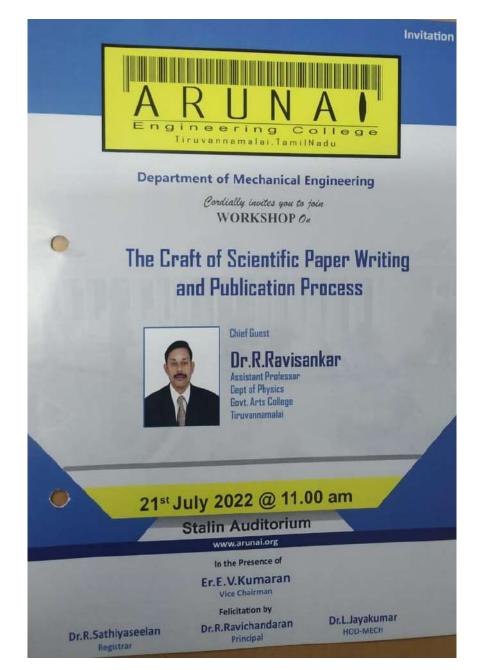
Principal Arunai Engineering College Tiruvannamalai - 606 603

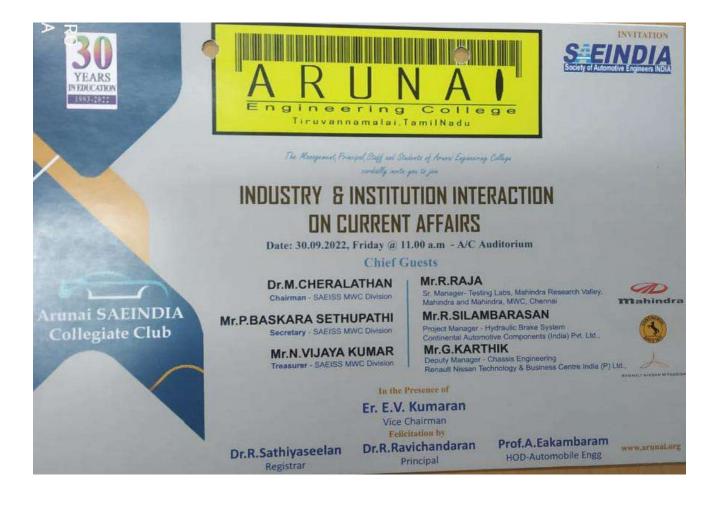


TIRUVANNAMALAI DEPARTMENT OF MECHANICAL ENGINEERING

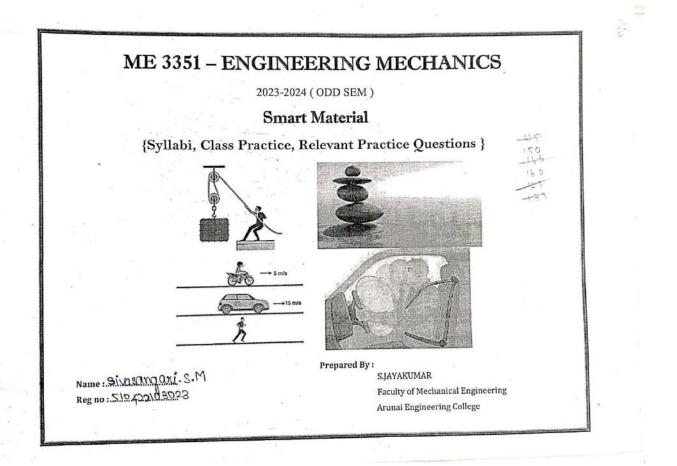
Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2022-2023

Gust lecture for Research paper writing and Industry and institution.





Work Book On Problematic Subject



2

2 ME3351 ENGINEERING MECHANICS DYNAMICS OF PARTICLES UNIT V LT P C 3 0 0 3 CHINARIS OF FARTILLE Knomatics - Reddinear Motion of Particles - Kinetics - Newton's Second Law of Motion Equations (Motions, Dynamic Equilibrium, Energy and Momentum Michods - Work of a Force, Kinetic Energy of a Particle, Principle of Work and Energy, Principle of Inguise and Momentum, 3 COURSE OBJECTIVES To Learn the use scalar and vector analytical techniques for analyzing forces in Statically determinate structures To introduce the equilibrium of ngid bodies To study and understand the distributed forces, surface, loading on beam and intensity. Impact of bodies. TOTAL: 45 PERIODS OUTCOMES: At the end of the course the students would be able to To learn the principles of tricton, forces and to determine the apply the concepts of frictional forces at the contact surfaces of various engineering systems. To develop basic synamics concepts – force, momentum, work and energy; Illustrate the vectorial and scalar representation of forces and momenta : Analyse the rigid body in equilibrium Evolute the properties of distributed forces Determine the friction and the effects by the laws of friction UNIT I STATICS OF PARTICLES UNTI STATUCS OF PARTICLES 9 Fundamental Concepts and Principles, Systems of Units, Method of Problem Solutions, Statics of Particles -Forces in a Pane, Resultant of Forces, Resolution of a Force into Components, Rectangular Components of a Force, Unit Vectors, Equilibrium of a Particle- Newton's First Law of Motion, Space and Free-Body Diagrams, Forces in Space, Equilibrium of a Particle in Space. Calculate dynamic forces exerted in rigid body UNIT # EQUILIBRIUM OF RIGID BODIES UNT II EQUILIBRIUM OF RIGID BODIES 9 Principle of Transmissibility. Equivalent Forces, Vector Product of Two Vectors, Moment of a Force about a Point, Vargron's Theorem, Rectangular Components of the Moment of a Force, Scalar Product of Two Vectors, Marea Triple Product of Three Vectors, Moment of a Force about an Axis, Couple - Moment of a Couple, Equivalent Couples, Addition of Couples, Resolution of a Given Force into a Force -Couple system, Further Reduction of a System of Forces, Equilibrium in Two and Three Dimensions - Reactions at Supports and Connections. UNIT II DISTRIBUTED FORCES UNT II DISTRUBUTED FORCES 9 Centroids of lines and areas - symmetrical and unsymmetrical shapes, Determination of Controids by Infegration, Theorems of Papur-Guidanus, Distributed Loads on Beams, Contre of Gravity of a Three-Dimensional Body, Centroid of a Volume, Composite Bodies , Determination of Centroids of Volumes by Integration. Moments of Inertia of Areas and Mass - Determination of the Moment of Inertia of an Area by Integration, Polar Moment of Inertia, Radius of Gyration of an Area, Parallel-Axis Theorem, Moments of Inertia of Composite Areas, Moments of Inertia of a Mass - Moments of Inertia of Thin Plates , Determination of the Moment of Inertia, and Three-Dimensional Body by Internation. Integration, UNIT N FRICTION 9 The Laws of Dry Friction, Coefficients of Friction, Angles of Friction, Wedge friction, Wheel Friction, Rolling Resistance, Ladder friction.

4. Determine the resultant both in magnitude and direction of the four forces acting on the body as shown n fig. (R.F.B)

Sta= 20000 826.56- 120005313 - 5000560° (-.+) $R = \sqrt{(2F_X)^2 + (2F_Y)^2}$ 12.27 200N + 10000120 120N = 146. 17N - V(146.17)7(65.52)2 274=2005in26.56+1205in53-16-505in60 3 - loosin 50° 60 Là R = 160.18N =65.55N 40 P. 50N $tand = \frac{\Sigma F \Psi}{\Sigma F X}$ 100N solution . 1. 11 4 $d = tan^{-1} \left(\frac{15.52}{46.17} \right)$ 0= tan-1 (=)=26.56 0=tan-1 (2)=53.13° d = 24.1 592:0 Zfx=200(BS 26.56-120(BS 53.13°- 50(BS bot100)in40 129x=146.17N 2fy=0 2+4=0 2+4= 2003in 26.56+1200025in 53.13°-503in60-10000840° 274 = 65. 52N

3. A body weighing 1200N is resting on a rough plane inclined at 20⁰ to the horizontal as shown I fig. It is pulled up the plane from rest by means of a light flexible rope running parallel to the plane and passing over a light frictionless pulley at the top of the plane. The portion of rope beyond the pulley hangs vertically and carries weight 800N at the end. If the coefficient of friction for the plane and body is 0.2, find a) tension in rope b) acceleration of the body and e) distance moved by the body in 3 seconds, starting from rest.
(D.P.B)TB.P.NO.392

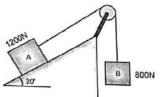


Table 4.2 Centre of gravity of simple solid figures

Figure

SL No

1

2

3

4

Name

Cone

Cylinder

Sphere

Hemi-

Sphere



4

(

1

4

1

1

100

CENTRE OF GRAVITY OF SOLID

Volume

 $\frac{1}{3}\pi r^2 h$

 $\pi r^2 h$

 $\frac{4}{3}\pi r^3$

 $\frac{2}{3}\pi r^3$

y

 $\frac{h}{4}$

 $\frac{h}{2}$

<u>d</u> 2

> 3r 8

y= 51

x

 $\frac{d}{2}$

 $\frac{d}{2}$

 $\frac{d}{2}$

 $\frac{d}{2}$

Case (I): If the composite solid is made of same material (i.e., density values are same)

$$\overline{\mathbf{x}} = \frac{\mathbf{V}_1 \mathbf{x}_1 + \mathbf{V}_2 \mathbf{x}_2 + \dots + \mathbf{V}_n \mathbf{x}_n}{\mathbf{V}_1 + \mathbf{V}_2 + \dots + \mathbf{V}_n}$$

and
$$\overline{\mathbf{y}} = \frac{\mathbf{V}_1 \mathbf{y}_1 + \mathbf{V}_2 \mathbf{y}_2 + \dots + \mathbf{V}_n \mathbf{y}_n}{\mathbf{V}_1 + \mathbf{V}_2 + \dots + \mathbf{V}_n}$$

where V_1, V_2, \dots, V_n are the volume of the different components.

x₁, x₂,, x_n are the centroidal distance of V₁, V₂,, V_n from OY axis. y₁, y₂,, y_n are the centroidal distance of V₁, V₂,, V_n from OX axis.

Case (ii): If the composite solid is made of different materials (i.e. density values are different), then

$$\overline{x} = \frac{(\rho_1 V_1) x_1 + (\rho_2 V_2) x_2 + \dots + (\rho_n V_n) x_n}{(\rho_1 V_1) + (\rho_2 V_2) + \dots + (\rho_n V_n)}$$

and
$$\overline{y} = \frac{(\rho_1 V_1) y_1 + (\rho_2 V_2) y_2 + \dots + (\rho_n V_n) y_n}{(\rho_1 V_1) + (\rho_2 V_2) + \dots + (\rho_n V_n)}$$

where $\rho_1, \rho_2, \ldots, \rho_n$ are the density of V_1, V_2, \ldots, V_n .

5

S.No	Programme name	Program Code	List of students undertaking project work/field work/internship
1	Internship		M.ARAVIND
2	Internship		AZARUDEEN A
3	Internship		N.BALASUBRAMANIAN
4	Internship		GOKULRAJ
5	Internship		JALIL S
6	Internship		M.JANARTHANAN
7	Internship		K.KANAGARAJAN
8	Internship		MAGESH.P.H.
9	Internship		MANOJ KUMAR. J
10	Internship		MUNIYAPPAN S
11	Internship		NAVEEN KUMAR N
12	Internship		PONNARASAN V
13	Internship		POOJESHWAR KARTHICK S A
14	Internship		D SARAN
15	Internship		SRIDHAR R
16	Internship		SUSEENDRAN.P
17	Internship		M.VIGNESH
18	Internship		S.VIJI
19	Internship		VISHVANATHAN D
20	Internship		FIRUS BASHA.M
21	Internship		A.V. HERVIND
22	Internship		JAGAN. S
23	Internship		S MOHAMMED SHABEER
24	Internship		PAVITHRAN S
25	Internship		RADHAKRISHNAN
26	Internship		SARAN RAJ K
27	Internship		SURESH P
28	Internship		TAMIL SELVAN S
29	Internship		R. VISHNU

Hod/Mech

ROYAL ENFIELD

Date: 06-07-2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. JANARTHANAN .M, REG.No - 510421114014, Department of Mechanical Engineering, Arunai Engineering College, Tiruvannamalai has successfully completed 14 Days of an internship program from 22-06-2023 to 06-07-2023 in the SERVICE department of our organization.

He was highly motivated and hardworking. He worked sincerely at his tasks and did a very good job.

We wish him/her great success in his/her future endeavours.



Akan Agency.

Address: No.20 Kanji Main Road. Opo Govt Bus Depol. Telephone: (04175)233377 Mobile: +91 9843022891



NLC INDIA LIMITED

("NAVRATNA - A GOVERNMENT OF INDIA ENTERPRISE")

CERTIFICATE

This is to certify that

P.H.MAGESH

Studying BACHELOR OF ENGINEERING in

MECHANICAL ENGINEERING at

ARUNAI ENGINEERING COLLEGE, THIRUVANNAMALAI

has undergoes internship training on

"RECONDITIONG OF SME'S GEARBOX AND ITS FAILURE ANALYSIS"

during the period from 23/06/2023 to 06/07/2023 at

MINE -I NLC INDIA LIMITED, NEYVELI

for CHIEF MANAGER

NEYVELI

06/07/2023

LEARNING AND DEVELOPMENT CENTRE

NLC INDIA LIMITED, NEYVELI Chief Manager Learning & Development Centre NLC India Limited, Neyveli-3.

Training adding value to life







FEEDBACK ACTION TAKEN REPORT

ACADEMIC YEAR

2021 - 2022



Department of Biotechnology

Date:4/4/2022

Feedback Collected from	Number of responses	Suggestions	Action taken	Evidence
Faculty	6	Enhance the practical exposure of faculty members by undergoing workshop/ FDP	Faculty members motivate to participate various skill development programs in reputed institution	Faculties were attended skill development and FDP programs
Student	87	Bridge the gap between students training and industrial requirements.	Various Plenary lectures arranged for students to meet up industrial requirements	Plenary lectures were arranged through National conference Hapten 2022
Alumni	24	Interaction with alumni is required to stay current trends ad method of recruitment	Alunmi lecture series conducted with current students	Alumni lecture series were arranged 17 to 22 January, 2022
Employers	3	Students should gain adequate knowledge in recent techniques used in industries	Management discussed with training and placement cell, decided to collaborate with more industry for more campus placement initiative.	MoU signed with Genprotic PVT Itd for providing knowledge about industries

Moorm Kom

HOD-BT

Principal Principal Arunal Engineering College Tiruvannamalai - 606 603



Department of Biotechnology



Faculties were attended skill development and FDP program



Department of Biotechnology

Alumni lecture series were arranged 17 to 22 January, 2022





Department of Biotechnology

MoU signed with Genprotic PVT ltd for providing knowledge about industries



MEMORANDUM OF UNDERSTANDING

This non-binding Memorandum of Understanding (MOU) is entered into Turuvannamalai 12¹⁴ day of March 2021

BETWEEN

M/s. ARUNAI ENGINEERING COLLEGE, DEPARTMENT OF BIOTECHNOLOGY, hereafter "AEC", with a registered address at Velu Nagar, Mathur, Tiruvannamalai-606.603, Tamilnadu. INDIA

AND

M/a, GENPROTIC BIOPHARMA PVT LTD, with a registered address at 6&7, VGP Layout Part II, Gandhi Street, Uthandi, Chennai - 600 119,tamilnadu, India.

AEC and GENPROTIC BIOPHARMA PVT LTD are referred to collectively, as "Parties" or individually as "Pagy."

	MOU Between Arunai Engineering College and Genprotic Biopharma Pvt Ltd



Department of Biotechnology

Plenary lectures were arranged through National conference Hapten 2022





Department of Chemical Engineering

Feedback Collected from	Number of responses	Suggestions	Action taken	Evidence
Faculty	4	The practical exposure to the faculty members by undergoing conferences	Faculty members are motivated to participate in conferences	
Students	18	Students should receive practical, hands-on training to acquire in-depth knowledge related to their subjects	Students were permitted to participate in practical sessions related to mass transfer operations.	
Alumni	15	Placement training and preparation should be offered.	The Training and Placement Cell organizes extra coaching sessions and practices.	Attached
Employers	3	(a) Allow students to visit industries for interactive sessions and learning opportunities.(b) Enhance awareness about new technologies	 (a) Permitted students for internship in pharma industry. (b) Several technical programs organized to improve technical skills 	

A. Weden **HOD/CHEMICAL**

Principal Arunai Engineering College Tiruvannamalai - 606 603

Prepared By

Faculty members are motivated to participate FDP's and international conferences.



National Virtual Conference on Sustainable Chemistry and Renewable Energy (SCRE-2022) Organised by UNIVERSAL INTELLECTUALS TRUST Non-Governmental Organization, Reg. No: 19/2020

Villupuram - 605 602, Tamil Nadu, India. Web.: www.uittrust.in

CERTIFICATE OF PRESENTATION

We hereby confirm that Ms/Mrs. R. Mary Nancy Flora, Faculty, Arunai Engineering College, Tiruvannamalai, gave the following oral presentation entitled "Bionanocomposite For Antimicrobial Activity – A Novel And Green Synthesis Approach"

at the SCRE-2022

Organized by UIT, Villupuram

held on 26th and 27th February 2022.

.00

Dr. K. Rajkumar Convener - SCRE Secretary, UIT

A.L. Ca_

Dr. A. S. Ganeshraja Co-convener - SCRE Chairman, UIT

handhart

Dr. S. Chandrasekar Co-convener - SCRE Treasurer, UIT



Students were permitted to participate in practical sessions related to mass transfer operations.

Hands-on training on Leaching (Solid-Liquid mass transfer operations) was provided to IV-year students.



The Training and Placement Cell organizes extra coaching sessions and practices.



ARUNAI ENGINEERING COLLEGE TIRUVANNAMALAI - 606 603.



TRAINING AND PLACEMENT CELL

CIRCULAR

23 04 2022

In continuation with the circular dated 18.04.2022 pertaining to Placement training program, the following class rooms are allotted for the Third Year students who are attending placement training classes from 27.04.2022 to 29.04.2022 (3 Days).

Seating Arrangment:

SI No	Hall No	Block	Year	Department	Students Strength
1	ECE 1	ECE	Third Year	CSE 'A' Sec (56)	56
2	ECE 2	ECE	Third Year	CSE 'B' Sec (53) + Auto (6)	59
3	ECE 3	ECE	Third Year	ECE (33) + CHEM (27)	60
4	ECE 4	ECE	Third Year	IT (34) + BIOTECH (24)	58
5	ECE 5	ECE	Third Year	EEE (41) + EIE (3) +CIVIL (16)	60
6	ECE 6	ECE	Third Year	Mech (68)	68

Due to above Training Program

The following classes are rearranged in ECE & CSE Block consecutively.(27.04.2022 to 29.04.2022)

Class Room Allotment

- E7 (CSE Block) E8 (CSE Block) 1. ECE Second Year
- 2. ECE Final Year
- 3. MECH Second Year EC7 (ECE Block)
- 4. MECH Final Year 'A' Sec EC8 (ECE Block)
- 5. MECH Final Year 'B' Sec EC9 (ECE Block)

Note:

1. Department Placement Coordinator are instructed to take attendance both FN & AN Session 2. Report the Attendance Details to Placement Cell and also give the mess strength to office.

~~~ Registrar

Copy submitted to the Vice Chairman

Copy to:

Principal Registrar

Director

All HOD's Sergeant

TAP File

#### Permitted students for internship in pharma industry.



Kauman Pharma A Ibusion of K. P. MANISH GLOBAL INGREDIENTS PVT.LTO that No. 10.2. SIPC OT Indl. Complex, Kudkadu, Curtatione 607005 1. 04142.739239/056 Elfs. No. 1023/9311N2607P1C065205

Date: 08.1 .2022

To Whom So Ever it May Concern

This is to certify that the student SATHYA NARAYANAN. S (510419203020) is studying B.Tech Chemical Engineering, in Arunai Engineering College - Thiruvannamalai. He has done his INTERNSHIP successfully in Production in our Organization from 06.1 .2022 to 20.1 .2022.

During the period of his INTERNSHIP with us, He was found punctual and inquisitive.

We wish him all the best in his future endeavors.

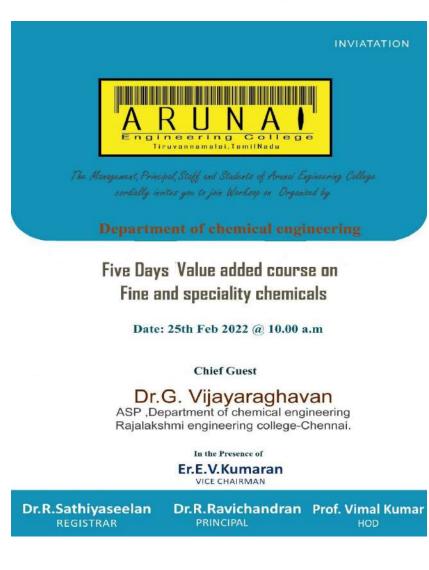
Yours Sincerely

For KAWMAN PHARMA (A Division of K.P. Manish Global Ingredients Pvt. Ltd)

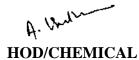
Authorized Signatory



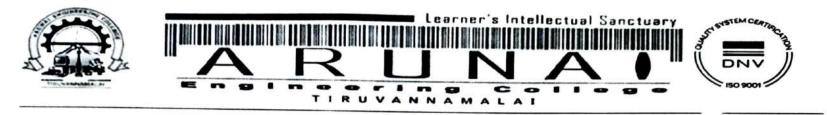
Value - added programs organized to improve technical skills



100



**Prepared By** 



Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2021-22

#### Department of Civil Engineering

Date:03.06.2022

| Feedback<br>Collected<br>from | Number<br>of<br>responses | Suggestions                                                                                    | Action taken                                                                                                                       | Evidence                                                                               |
|-------------------------------|---------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Faculty                       | 6                         | Suggested to provide training related to software used in Civil Engineering field.             | The department signed a MoU between<br>the institution and Vector Solutions to<br>provide practical training related to<br>ANSYS.  |                                                                                        |
| Students                      | 27                        | Students are suggested to provide extra<br>hours for reading journals and books in<br>library. | Library hour is allocated in timetable to<br>enable students to read journals and<br>books in the library.                         | Library hour is allocated in<br>timetable and it is<br>implemented from<br>07/02/2022. |
| Alumni                        | 18                        | Arrange field visit for students to get practical knowledge.                                   | Field visits are arranged for the students to gain field knowledge.                                                                | Field visits are arranged to<br>students to visit Thannal Mud<br>Homes on 17/12/2021.  |
| Employers                     | 2                         | Suggested on addition of new courses on the skill development.                                 | Conducted new courses focusing on the skill development which will help students in their employability and professional practice. | Conducted Two days National<br>Level workshop on ANSYS<br>on 10.03.2022 to 11.03.2022. |

P. Joyann Prepared By R. Kathinam HEAD OFHODAEFAHIMEN DEPT.OF CIVIL ENGINEERING ARUNAI ENGINEERING US\_LEGE TIRUVANNAMALAI - 506 603

Arunai Engineering College Tiruvannamalai - 606 603



#### Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2021-22

1. MoU signed between institution and Vector Solutions on 25<sup>th</sup> August 2021.



#### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MOU) entered on the 25th day of August 2021

#### By and Between

Arunai Engineering College, having its CAMPUS at (Velunagar, Tiruvannamalai -606603) and represented by its Principal (which expression shall mean and include its successors in office and assigns).

And

Vector Solutions having its office at Chacko Towers, Anna Nagar Main Road, Anna Nagar, Puducherry - 605005 and represented by its Chief Executive Officer (which expression shall mean and include its successors in office and assigns).

Page 1 of 6

திருவண்ணாமனை, தமிழ்நாடு

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#### **Objectives of the Collaboration:**

- To provide employable skills to the students of Arunai Engineering College.
- Make the student aware of the latest tools and techniques in order to keep them industry ready at the end of their course.
- Offer the course at an affordable price to the students of Arunai Engineering College.
- Increase the employability of the student and maximize on the placement opportunities available.
- To build and improve the confidence level of the student to face the challenges of real time.

This Memorandum of Understanding is to conduct a Unique, Step – By – Step, Systematic, and Employable Skills Development Program for the students of *Arunai Engineering College* towards achieving the objective of maximizing the employable opportunities for students of *Arunai Engineering College*.

This Memorandum of Understanding states the terms and conditions under which the Trainings shall be conducted by Vector Solutions at the premises of Arunai Engineering College and lists herein the respective responsibilities of both parties.

#### PREAMBLE

To get a student employable and placed in an organization; over and above the subject knowledge he / she is expected to have the following:

- Strong Fundamental Engineering Knowledge
- Engineering related Multiple Technical Skills Develop skills that add value

While Subject Knowledge would be provided by Arunai Engineering College, Vector Solutions will equip the students with required industry specific software skills, modelling, analysis, 3D rendering, 3D printing.

On one hand, thousands of unemployed Engineering graduates are not finding suitable jobs, while on the other hand, Industry requires millions of young minds at all levels but are unable to find the right candidate. This is because of the skill gap that exists between the student and industry requirements. This skill gap is sought to be minimized for the students of *Arunai Engineering College* by facilitating them to acquire the appropriate and relevant skills at *Arunai Engineering College* itself through this program.

#### Vector Solutions Shall Provide:

- · Comprehensive Vector Solutions reference and notes to all students for the course.
- Qualified trainers for the course.
- · Periodical assessment of the progress of students for their further improvements.

Page 2 of 6

- 'Certificate of Completion' to every student who successfully completes the training program.
- "Certificate of Association" to the college.

#### Arunai Engineering College Shall Provide:

The following facilities will be provided only within Arunai Engineering College, Tiruvannamalai.

- The required number of computer systems in the lab and other required infrastructure for the practice
- The Class rooms with LCD projector for the theory classes.
- · The Schedule with the classes for this training.
- The supports to ensure all students who have signed up for the class to attend the training programs scheduled for them.
- The relevant CAD software should be available in the computer systems.
- Disciplinary support for the smooth conduct and timely completion of the entire course.
- Minimum 25 Hours of Training time.
- Provide all support to Vector Solutions in the marketing initiatives undertaken by Vector Solutions to enroll students in the courses offered by Vector Solutions Centre. Arunai Engineering College will provide all infrastructural facilities for the marketing initiatives undertaken by Vector Solutions.
- Boarding and Lodging facilities for the trainers.

#### PARTICIPANTS

The participants would be the Students of Arunai Engineering College from Civil Engineering Department and Other Deapartments from Third & Final Years mentioned in ANNEXURE.

#### COURSE CONTENTS

Vector Solutions in consultation with *Arunai Engineering College* shall finalize the courses and fees for the skills development program. The same is provided in the Annexure. These will be reviewed every year and suitable changes, if required, will be incorporated. As the requirement of each course is different, courses and fees have been worked out separately.

#### TIME SCHEDULE

The programs will be conducted during the days and timings provided by *Arunai* Engineering College. The students will be divided into batches, depending on the total strength. The programs will be conducted according to the Time Table drawn up with the mutual consent of Vector Solutions and *Arunai Engineering College*. Utmost care will be taken to frame the time table in such a way that it does not coincide with college exams enabling the student to complete

Page 3 of 6

his training ahead of the exams. Vector Solutions will not conduct any classes during the time of exams. In case of any change in training schedule the same will be intimated to the Program Coordinator of *Arunai Engineering College*. Similarly, if *Arunai Engineering College* wants a change in training schedule the same may be communicated to the Programme Coordinator of Vector Solutions. In either of the case, a revised training schedule has to be made and the Programme Coordinators of both Vector Solutions & *Arunai Engineering College* and the respective students must be informed about the change in training schedule by means of suitable media (emails/posters/circulars/notice board displays).

#### Programme Coordinator

The Principal of Arunai Engineering College shall appoint a "Programme Coordinator" for the duration of the program, who shall liaise with Vector Solutions and make the training process learner-friendly and effective. Vector Solutions shall work in close relationship with the Programme Coordinators, who in-turn shall keep a close touch with the students. In the event of any difference of opinion between Vector Solutions and the Programme Coordinator, the matter should be referred to the Chairman of Arunai Engineering College, whose decision thereon shall be final and binding on both the parties.

#### COMMENCEMENT OF COURSE

Arunai Engineering College will ensure that the courses will start within 90 (Ninety) days from the date of signing of MOU. However exception can be made due to reasons mentioned in the Course Completion Clause or due to delay on Arunai Engineering College's side.

#### COURSE FEES & PAYMENT PATTERN

The course fee per student for each course offered is decided and mutually agreed upon by both the parties. The course, course fee, course deiverabes, number of students & batch timings are available in the Annexure. The student shall pay the course fee directly to *Arunai Engineering College* before the start of the course. The college shall provide 40% of the total cost before the commencement of the course. The remaining 60% shall be paid at the end.

#### **COURSE COMPLETION:**

While Vector Solutions will endeavor to complete the course as per the schedule mutually agreed upon and mentioned in Annexure, Vector Solutions will not be responsible and accountable for delay in completing the course due to reasons which are beyond the control of Vector Solutions. Reasons beyond the control of Vector Solutions include – acts of God (including fire, flood, earthquake, storm, hurricane or other natural disaster), war, invasion, act of foreign enemies, hostilities (regardless of whether war is declared), civil war, rebellion, revolution, insurrection, military or usurped power or confiscation, terrorist activities, nationalization, government sanction, blockage, embargo, labor dispute, strike, lockout or Page 4 of 6 interruption or failure of electricity or telephone service, failure and non – availability of Computer Systems, non – availability of Classrooms), law and order problems, students unrest/strike/boycott, unscheduled changes in college curriculum and other unforeseen circumstances.

· Course will be completed as mentioned in ANNEXURE .

While it is mandatory for the student to have undergone the complete course as mentioned in ANNEXURE to be eligible for a Course Completion Certificate. In case he/she opts out due to any reason an appropriate certificate will be issued for only for that course completed by the student. Students will not be eligible for Certification for the courses that they have not completed.

Vector Solutions will not issue "Certificate of Completion" to the successful student, if full payment is not made. Vector Solutions will refund the fees once paid if the student opts out or discontinues the course at any stage due to any reason.

#### VALIDITY

Both Arunai Engineering College and Vector Solutions shall have the rights to terminate this MOU by providing **THREE** months notice in writing on their respective letter head only after a minimum period of 3 year. Termination of this MoU for whatever reason shall be without prejudice to the rights of either party and of the students and the ongoing academic programmes.

This Memorandum of Understanding will be valid for a period of <u>3</u> years.

This Memorandum of Understanding shall come into effect from 25th August 2021.

For: Arungi Engineering College Janto

Name Designation Date : Dr R Ravichandaran : Principal : 25.08.2021

Dr. R.Ravichandaran M.E., Ph.D. Principal Arunal Engineering College Tiruvannamalai 606 603

For: Vector/Solutions

Name Designation Date : Mr J Jagan : Chief Executive Officer : 25.08.2021



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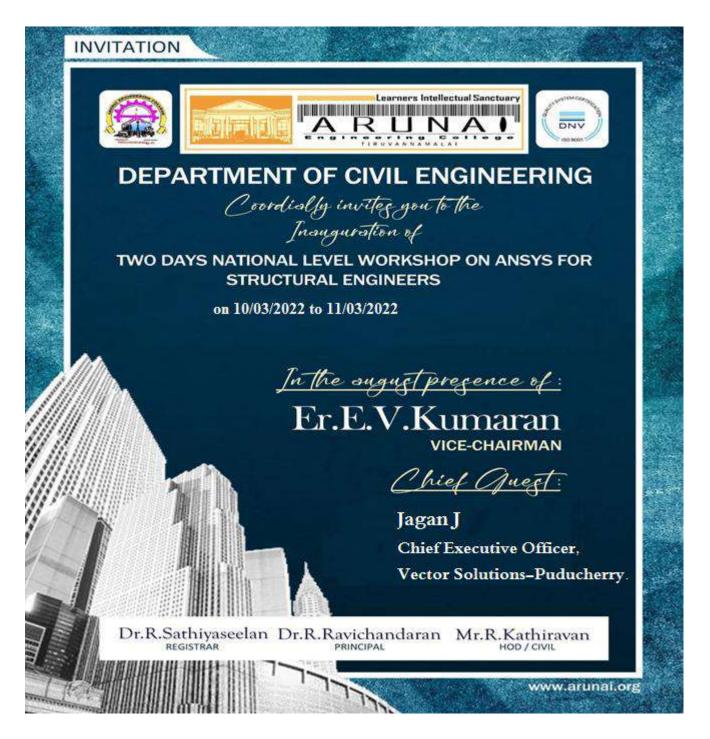
2. Library hour is allocated in timetable and it is implemented from 07/02/2022.

| Day/Time         09:20AM -<br>10:10AM         10:10AM -<br>11:20AM         11:20AM -<br>11:20AM         12:10PM -<br>12:10PM         01:00PM -<br>02:00PM         02:00PM -<br>02:50PM         02:50PM -<br>03:40PM         03:40PM -<br>04:30PM           Monday         ST 4102         RM 4151         ST 4102         RM 4151         ST 4101         ST 4004         RM 4151           Taesday         ST 4104         AX 4092         ST 4101         ST 4102         LUNCH         RM 4151         ST 4111         ST 4102         LUNCH         RM 4151         ST 4101         ST 4102         LUNCH         ST 4102         LUNCH         ST 4102         LUNCH         ST 4102         ST 4102         LUNCH         ST 4102         ST 4102 <t< th=""><th>PG Class Schedule for Academic Year 2021-2022           ar &amp; Sem: 1 &amp; 1         Effective from: 07/02/2           ar &amp; Sem: 1 &amp; 1         Rev: 00         Effective from: 07/02/2           Day/Time         09:20AM - 10:10AM - 11:20AM - 11:20AM - 12:10PM - 01:00PM - 02:50PM - 02:50PM - 03:40PM - 04:30PM           Monday         ST 4102         RM 4151         Friday         ST 4101         ST 4004         RM 4151         ST 4101         ST 4004         LUNCH BREAK         ST 4101         &lt;</th><th></th><th></th><th></th><th></th><th>1140</th><th>VANNAW</th><th>ALAI</th><th></th><th>16</th><th>11</th><th></th></t<> | PG Class Schedule for Academic Year 2021-2022           ar & Sem: 1 & 1         Effective from: 07/02/2           ar & Sem: 1 & 1         Rev: 00         Effective from: 07/02/2           Day/Time         09:20AM - 10:10AM - 11:20AM - 11:20AM - 12:10PM - 01:00PM - 02:50PM - 02:50PM - 03:40PM - 04:30PM           Monday         ST 4102         RM 4151         Friday         ST 4101         ST 4004         RM 4151         ST 4101         ST 4004         LUNCH BREAK         ST 4101         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                                          |                                                                                    |                                                                                                              | 1140         | VANNAW   | ALAI                  |                                          | 16                                                                | 11                                      |               |
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| Rev: 00         Effective from: 07/           Day/Time         09:20AM         10:10AM         11:00AM         11:20AM         12:10PM         01:00PM         02:00PM         02:50PM         02:50PM         03:40PM         04:30PM         04:30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Bar & Sem: I & I         Rev: 00         Effective from: 07/02/2           Day/Time         09:20AM - 10:10AM - 11:00AM - 11:20AM - 11:210PM - 01:00PM - 02:50PM |                       |                                          |                                                                                    | DEPART                                                                                                       | MENT C       | of civil | ENGI                  | NEERIN                                   | G                                                                 | 01                                      |               |
| Day/Time         10:10AM         11:00AM         11:20 AM         12:10PM         01:00PM         02:00PM         02:50PM         03:40PM         04:30PA           Monday         ST 4102         RM 4151         Tuesday         ST 4102         RM 4151         ST 4104         AX 4092         ST 4101         ST 4102         AX 4092         ST 4101         ST 4102         Library         Counselli           Tauraday         RM 4153         MA 4153         MA 4153         ST 4101         ST 4102         ST 4102         ST 4102         Library         Counselli           Friday         MA 4153         MA 4153         MA 4153         ST 4102         ST 4004         Library         Counselli           S.No         Sub Code         Sub Name         ST 4102         ST 4004         Library         Counselli           1         ST 4101         Theory of Elasticity and Plasticity         4         Mrs M Dhivya         2           2         ST 4102         Structural Dynamics and Earthquake Engineering         4         Mr V Sivakumar           3         RM 4151         Research Metho                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Day/Time     10:10AM     11:20AM     11:20AM     12:10PM     01:00PM     02:00PM     02:50PM     03:40PM     04:30PM       Monday     ST 4102     RM 4151     Tuesday     ST 4104     AX 4092     ST 4111     ST 4101     ST 4102     ST 4102 <t< th=""><th>ear &amp; S</th><th>iem: 1 &amp; 1</th><th></th><th>P</th><th>7 Class Sche</th><th>100</th><th>ademic Yea</th><th>w 2021-20.</th><th>22</th><th>Effective</th><th>from: 07/02/2</th></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ear & S               | iem: 1 & 1                               |                                                                                    | P                                                                                                            | 7 Class Sche | 100      | ademic Yea            | w 2021-20.                               | 22                                                                | Effective                               | from: 07/02/2 |
| Tuesday     ST 4104     AX 4092       Wednesday     MA 4153     MA 4153       Thursday     RM 4151     ST 4101       Friday     RM 4151     ST 4101       Friday     MA 4153     MA 4153       S.No     Sub Code     Sub Name       I     ST 4101     Theory of Elasticity and Plasticity       2     ST 4102     Structural Dynamics and Earthquake Engineering       3     RM 4151     Research Methodology and IPR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Wednesday         MA 4153         MA 4153         MA 4153         TEA<br>BREAK         ST 4101         ST 4102         LUNCH<br>BREAK         RM 4151         ST 4111           Thursday         RM 4151         ST 4101         ST 4102         ST 4102         ST 4102         BREAK         RM 4151         ST 4111         ST 4102         LUNCH<br>BREAK         RM 4151         ST 4111         ST 4102         Library         Counselli           S.No         Sub Code         Sub Name         No of Hours per<br>Week         Week         Staff Name           1         ST 4101         Theory of Elasticity and Plasticity         4         Mrs M Dhivya            2         ST 4102         Structural Dynamics and Earthquake Engineering         4         Mr V Sivakumar           3         RM 4151         Research Methodology and IPR         4         Mr R Kathira van                                                                                                                                       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   Library     Counselling       Library     Counselling       Library     Library       No     Sub Code       Sub Name     No of Hours per       Week     Staff Name       1     ST 4101       Theory of Elasticity and Plasticity     4       At 102     Structural Dynamics and Earthquake Engineering     4       Mr V Sivakumar     3       RM 4151     Research Methodology and IPR     4       4     ST 4004     Prefabricitaed Structure       5     MA 4153     Advanced Construction Engineering &       4     Mr V Vijayakumar       4     Mr.D.Murali                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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4111                  |                                          | ST 4101                                                           | ST 4004                                 | Library       |
| Wednesday         MA 4153         MA 4153         MA 4153         BREAK         ST 4101         ST 4102         BREAK         RM 4151         ST 4111           Thursday         RM 4151         ST 4101         ST 4102         ST 4004         BREAK         BREAK         ST 4102         ST 4004         ST 4102         Library         Counselli           Friday         MA 4153         MA 4153         MA 4153         ST 4102         ST 4004         BREAK         ST 4102         Library         Counselli           S.No         Sub Code         Sub Name         No of Hours per<br>Week         Wreek         Staff Name           1         ST 4101         Theory of Elasticity and Plasticity         4         Mrs M Dhivya            2         ST 4102         Structural Dynamics and Earthquake Engineering         4         Mr V Sivakumar           3         RM 4151         Research Methodology and IPR         4         Mr R Kathiravan                                                               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     RM 4151         ST 4101         ST 4102         BREAK         RM 4151         ST 4111           Friday         MA 4153         MA 4153         BREAK         ST 4102         ST 4004         BREAK         RM 4151         ST 4111           No         Sub Code         Sub Name         No of Hours per<br>Week         No of Hours per<br>Week         Staff Name           1         ST 4101         Theory of Elasticity and Plasticity         4         Mrs M Dhivya            2         ST 4102         Structural Dynamics and Earthquake Engineering         4         Mr V Sivakumar            3         RM 4151         Research Methodology and IPR         4         Mr R Kathiravan            4         ST 4004         Prefabricaad Structure         4         Mr V Vijayakumar            5         MA 4153         Advanced Construction Engineering &         4         Mr.D.Murali                                                                                                                          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4151               | i                                        |                                                                   | ST 4161                                 |               |
| Tauraday     RM 4151     ST 4101     AX 4092     ST 4004     ST 4102     Library     Counselli       Friday     MA 4153     MA 4153     MA 4153     ST 4102     ST 4004     ST 4102     Library     Counselli       S.No     Sub Code     Sub Name     No of Hours per<br>Week     No of Hours per<br>Week     Staff Name       1     ST 4101     Theory of Elasticity and Plasticity     4     Mrs M Dhivya       2     ST 4102     Structural Dynamics and Earthquake Engineering     4     Mr V Sivakumar       3     RM 4151     Research Methodology and IPR     4     Mr R Kathira van                                                                                                                                                                                                                                                                                                                                                                                                                                           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Counselling           JNo         Sub Code         Sub Name         No of Hours per<br>Week         No of Hours per<br>Week         Staff Name           1         ST 4102         Structural Dynamics and Earthquake Engineering         4         Mr S M Dhivya           2         ST 4102         Structural Dynamics and Earthquake Engineering         4         Mr V Sivakumar           3         RM 4151         Research Methodology and IPR         4         Mr R Kathiravan           4         ST 4004         Prefabriciaed Structure         4         Mr V Vijayakumar           5         MA 4153         Advanced Construction Engineering &         4         Mr.D.Murali                                                                                                                                                                                                                                                                                                                                            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| S.No         Sub Code         Sub Name         No of Hours per<br>Week         Staff Name           1         ST 4101         Theory of Elasticity and Plasticity         4         Mrs M Dhivya           2         ST 4102         Structural Dynamics and Earthquake Engineering         4         Mr V Sivakumar           3         RM 4151         Research Methodology and IPR         4         Mr R Kathiravan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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Engineering         4         Mr V Sivakumar           3         RM 4151         Research Methodology and IPR         4         Mr R Kathiravan           4         ST 4004         Prefabricitad Structure         4         Mr V Vijayakumar           5         MA 4153         Advanced Construction Engineering &         4         Mr.D.Murali                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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ST 4004               | BREAK                                    | ST 4102                                                           | Library                                 | Counselling   |
| Start         Start Code         Start Name         Week         Start Name           1         ST 4101         Theory of Elasticity and Plasticity         4         Mrs M Dhivya           2         ST 4102         Structural Dynamics and Earthquake Engineering         4         Mr V Sivakumar           3         RM 4151         Research Methodology and IPR         4         Mr R Kathiravan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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4004               | 1                                        |                                                                   | Library                                 |               |
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Methodology and IPR         4         Mr R Kathiravan           4         ST 4004         Prefabrictaed Structure         4         Mr V Vijayakumar           5         MA 4153         Advanced Mathematical Methods         4         Mr.D.Murali                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 3 RM 4151 Research Methodology and IPR 4 Mr R Kathiravan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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4         Mr.D.Murali                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                   |                                          | Mrs M Dhi                                                         | vya                                     |               |
| a with K Kathiravan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                  | 2                                        | Mr V Sivak                                                        | umar                                    |               |
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                  |                                          | Mr R Kathi                                                        | ravan                                   |               |
| wir v vijayakumar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                  |                                          | Mr V Vijay                                                        | akumar                                  |               |
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                  |                                          | Mr.D.Murali                                                       |                                         |               |
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                  |                                          | Mr.M.Balamurugan                                                  |                                         |               |
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                  |                                          | Mrs M San                                                         | zavi                                    |               |
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                  |                                          | Mr V Sivak                                                        | umar                                    |               |
| 7 ST 4111 Seminar 4 Mrs M Sangavi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                  |                                          | Mr V Sivak                                                        | umar                                    |               |
| MA 4153 Advanced Mathematical Methods     Advanced Construction Engineering &     Mathematical Methods     Advanced Construction Engineering &                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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4<br>4<br>3<br>4<br>5 |                                          | Mr V Vijay<br>Mr.D.Mura<br>Mr.M.Balar<br>Mrs M Sany<br>Mr V Sivak | akumar<br>li<br>nurugan<br>gavi<br>umar |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                  |                                          | Mrs M Sang                                                        | zavi                                    |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 7 ST 4111 Seminar 4 Mrs M Sangavi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                  |                                          | Mr V Sivak                                                        | umar                                    |               |
| 7 ST 4111 Seminar 4 Mrs M Sangavi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                  |                                          |                                                                   |                                         |               |

3. Field visits are arranged to students to visit Thannal Mud Homes on 17/12/2021.



4. Conducted Two days National Level workshop on ANSYS on 10.03.2022 to 11.03.2022.





Format : F-FDB-02 Version : 01

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2021 – 22

#### **Department of Computer Science and Engineering**

11.05.2022

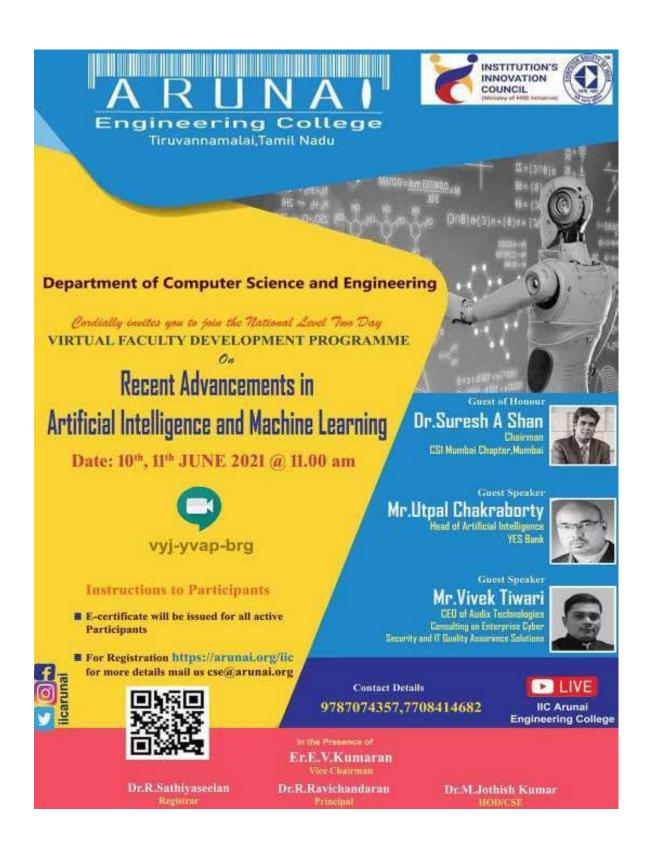
| Feedback<br>Collected from | Number of<br>responses | Suggestions                                                               | Action taken                                                                                                  | Evidence                                                                                                                                                |
|----------------------------|------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Faculty                    | 10                     | FDP is required to develop teaching practices                             | Faculties are encouraged to attend<br>FDP, which provides an insight<br>about the upcoming technical<br>areas | Recent Advancements in<br>Artificial Intelligence and<br>Machine Learning conducted<br>on 10.06 to 11.06.2021                                           |
| Students                   | 120                    | Arrange additional course to<br>enable them learn current<br>technologies | Value Added Course on current<br>technology were planned to be<br>arranged                                    | Webinar Series "Right Pitch<br>To The Right Audience"<br>were conducted on 19.07.21<br>to 28.07.21 and<br>"Introduction to Data<br>Science" on 12.08.21 |
| Alumni                     | 10                     | More training on group<br>discussion and aptitude may be<br>arranged      | Extra coaching on aptitude and group discussion were arranged                                                 | "Talks On Placement<br>Preparation" conducted on<br>26.11.21 to 27.11.21                                                                                |
| Employers                  | 1                      | Enhance awareness about new technologies                                  | Courses on current technologies<br>were conducted                                                             | Data Science using py thon<br>Conducted from 20.12 to<br>24.12.21, lot using arduino<br>3.1.22 to 7.1.22                                                |



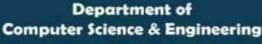
PRINCIPAL Arunai Engineering College Tiruvannamalai.











In association with CSI Mumbai Chapter

Centre of Skill Development

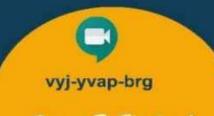


Are you Preparing for Placements & Internships?

Want to Crack interviews of Big Companies?

Join us Let's have a Talk with our panel

#### Date:26.11.2021 & 27.11.2021



Success By Hardwork

www.arunai.org

A RUNAI Engineering College

**Chief Guests** 

Mr.Satheesh kumar IT System Admin Bahrain



Mr.Venkataraman Certified SAP Consultant TCS

Mr. Shahul Hameed



Mr.Vijay Selvaraj Odoo Developer Tefugen Technologies

**Block chain engineer** 

**Origin Protocol** 

Ms.J.Abirami Software Developer Roadmap IT Solutions



Er.E.V.Kumaran Dr.R.Sathiyaseelan Dr.R.Ravichandaran Dr.M. Vice Chairman Registrar Principal

Dr.M.Jothish Kumar ROD-CSE

#### Invitation



ESTD. 196

40-3



Centre of Skill Development Department of Computer Science and Engineering

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TIRUVANNAMALAI

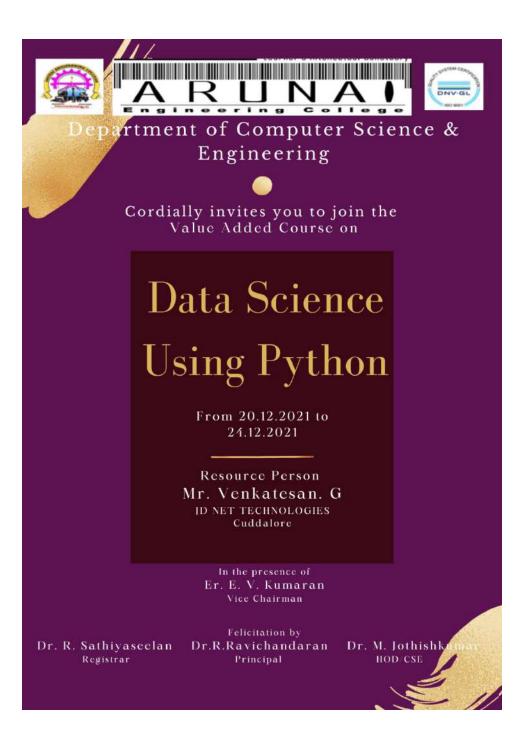
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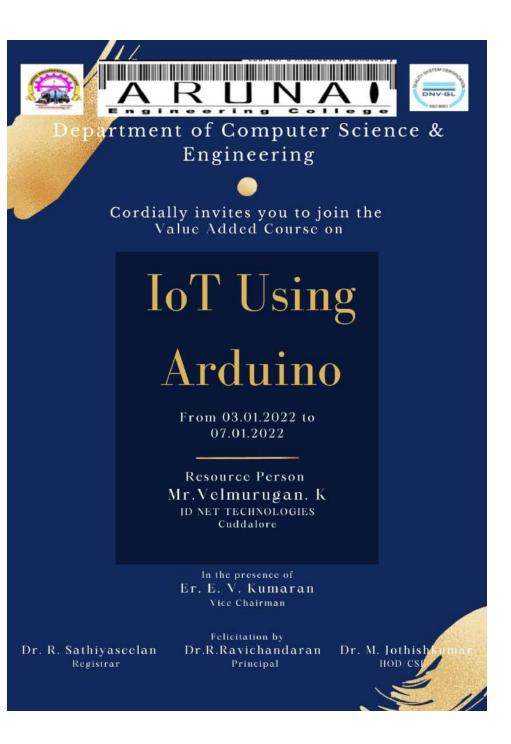
# RIGHT PITCH TO THE RIGHT AUDIENCE

Timing: 06.00 pm to 07.00 pm

#### Join our WEBINAR SERIES on









ARUNAI ENGINEERING COLLEGE TIRUVANNAMALAI – 606 603



#### **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

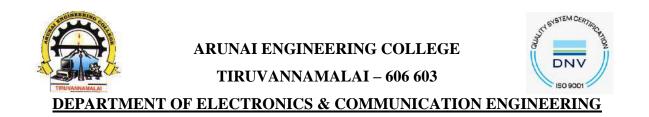
Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2021-22

| Feedback<br>Collected from | Number of responses | Suggestions                                                                                                                                        | Action taken                                                                               | Evidence |
|----------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------|
| Faculty                    | 8                   | To enhance the practical exposure<br>of faculty members by undergoing<br>industrial training/ workshops/<br>FDPs                                   | Faculty members are undergoing<br>various skill enhancement programme<br>in regular basis. |          |
| Students                   | 55                  | <ol> <li>Requested to arrange workshop<br/>to improve practical exposure.</li> <li>Requested to arrange an IV visit<br/>on core domain.</li> </ol> | simulink.                                                                                  | ATTACHED |
| Alumni                     | 5                   | Special training programs to be organized on current trends.                                                                                       | Organized Workshop for student or current trends.                                          | 1        |
| Employers                  | 2                   | Suggested to enhance the ICT based teaching pedagogy.                                                                                              | Wi-Fi connections were enhanced to<br>take classes from the respective<br>building.        |          |

Prepared By

HOD-ECE Dr. 6 GO B.E.M.E. Ph.s. Professor & Head Pept, of Electronics and Communication Engs. Arunai angineering College, Tiruvennemelai-606 603. -----

PRINCIPAL Principal Arunai Engineering College Tiruvannamalai - 606 603



Workshops attended by faculty:

| Stor.             | MGM                                                             | UNVERSITY                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------|-----------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 25                | One Day Internation                                             |                                                   | 1 Contraction of the second se |
| Artificial Intell | igence, Machine Learning / D<br>7 <sup>th</sup> May             | Deep Learning in Industry and H<br>2022           | lealthcare 'O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                   | Certif                                                          | icate                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                   | Particip                                                        | oation                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| This is           | to certify that Sathiya K                                       | G                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| has p             | articipated in the one day onlin<br>AIML/DL in Indus<br>Organis | try & Healthcare                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Univer            | sity Department of Informatic<br>MGM University                 | on & Communication Technolog<br>, Aurangabad      | zy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                   | Stunard                                                         | Abecom                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sta. I            | Professor and Head UDICT                                        | Dr. Ashish Gadekar<br>Registrar<br>MGM University |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |



#### **GURU GHASIDAS VISHWAVIDYALAYA BILASPUR**

#### CERTIFICATE OF PARTICIPATION

This is to certify that **K Yogitha** participated & completed successfully One Week Online Workshop on **SKILL DEVELOPMENT FOR TECHNOLOGY TRANSFER** jointly organized by **Research & Development Cell, SoS(E&T) and Skill Development Cell,** GGV, Bilaspur, (C.G), India on dated September 13-18, 2021.

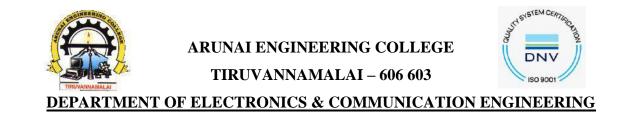
Nodal Officer,SDC Dr. Rohit Raja Associate Professor Information Technology

Andsom

Coordinator Dr. Anil Kumar Soni Assistant Professor Electronic & Communication Engg. Coordinator Dr. Kundan Meshram Assistant Professor Civil Engg.

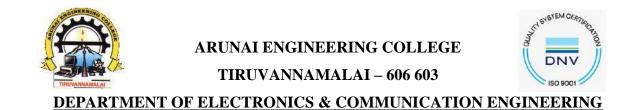


Coordinator Mr. Amit Kumar Dewangan Assistant Professor Information Technology

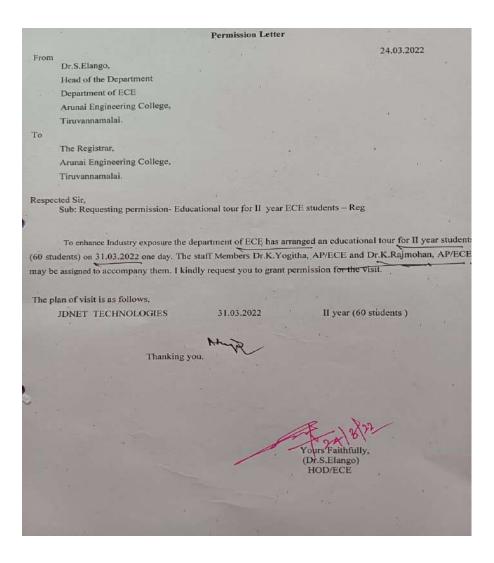


#### Workshop organized to improve practical exposure:





#### **Arranged Industrial visit for the students:**



**JDNET TECHNOLOGIES** 

# TECHNOLOGIES

## PROJECT DEVELOPMENT ORGANIZATION (An ISO 9001 : 2015 Certified Institution)

## Industrial Visit Confirmation Letter

DATE: 25.03.2022

no

Dr.S.Elango.

Head of the Department,

Dept of Electronics and communication engg,

Arunai Engineering College,

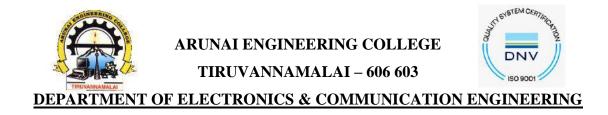
Tiruvannamalai.

#### Respected Sir

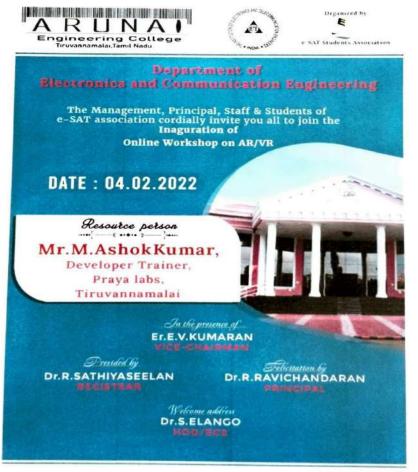
With reference to your letter we are happy to offer you an Educational tour for II year students of ECE (60 students) on 31.03.2022 one day at JDNET TECHNOLOGIES, Cuddalore. We look forward to your active participation in the Educational Tour and building your foundations for your future career.

Thanking you.

# 31, Subburaya Chetty Street, Thirupapuliyur, Cuddalore - 2. Mail to : jdnetprojects@gmail.com Contact : 04142 - 236080

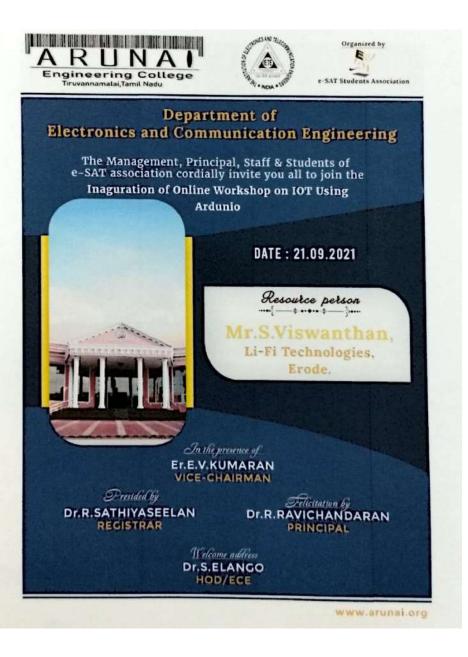


#### Workshop Organized to the students on current trends:

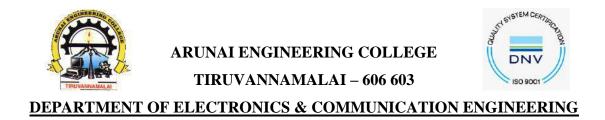




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Wi-Fi facility in the ECE department:







Tiruvannamalai



#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2021-22

## **Department of Electrical and Electronics Engineering**

| Feedback<br>Collected from | Number o<br>responses | f Suggestions                                                                                                                                                                                          | Action taken                                                                                                                                                                          | Evidence |
|----------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | 8                     | <ol> <li>1.Wi-Fi facility is required at<br/>department block</li> <li>2. The financial support to the<br/>faculty members by attending<br/>conferences.</li> </ol>                                    | <ol> <li>Wi-Fi facility provided at EEE department block</li> <li>Registration fees will be sponsored by the management for faculty members who are attending conferences.</li> </ol> |          |
| Students                   | 58                    | <ol> <li>Need more coaching class for<br/>problematic subjects.</li> <li>Requested to arrange industrial<br/>visit</li> <li>Requested to arrange value<br/>added course for currents trends</li> </ol> | <ul><li>problematic subjects.</li><li>2. Department arranged industrial visit to TNEB at tiruvannamalai</li></ul>                                                                     | Attached |
| Alumni                     | 8                     | Placement training and practices should be provided                                                                                                                                                    | Additional coaching class and practices<br>conducted by Training and placement<br>cell                                                                                                |          |
| Employers                  | -                     | Nil                                                                                                                                                                                                    | Nil                                                                                                                                                                                   |          |

**Prepared By** 

**HOD-EEE** 

Principal

Arunai Engineering College Tiruvannamalai - 606 603



Thiruvannamalai

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2021-22

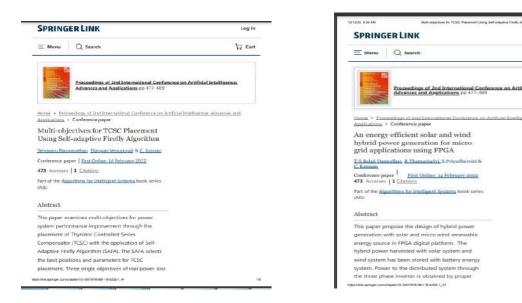
#### Wi-Fi facility provided at EEE department block

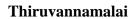


Registration fees will be sponsored by the management for faculty members who are attending conferences.

Log in

T Cart





#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Special classes conducted for problematic subjects.

| Arunai Engineering College<br>Tiruvanamalal.<br>Department of Electrical & Electronics Engineering<br>Name list for Special Class Attendance<br>EE8351-Digital Logic Circuits<br>4.30 pm - 5.30 pm |                    |                  |      |     |        |       |       |       |       |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|------|-----|--------|-------|-------|-------|-------|---------|
|                                                                                                                                                                                                    |                    |                  |      | 22  |        |       |       |       |       |         |
| S.NO                                                                                                                                                                                               | REGISTER<br>NUMBER | NAME             | 8/11 | alu | 10 / " | 11/11 | 12/11 | 13/11 | 15/11 | 16 / 11 |
| 1                                                                                                                                                                                                  | 510420105001       | ABDUL KADHAR A   | /    | 1   | 1      | 1     | 1     | 1     | 1     | 1       |
| 2                                                                                                                                                                                                  | 510420105006       | ARUN PRASANTH G  | 1    | 1   | 1      | r     | 1     | 1     | 1     | ,       |
| 3                                                                                                                                                                                                  | 510420105007       | BALACHANDAR B    | 1    | 1   | 1      | a     | 1     | /     | 1     | 1       |
| 4                                                                                                                                                                                                  | 510420105008       | ВАЦАЛ М          | 1.   | 1   | 1      | /     | 1     | 1     | 1     | 1       |
| 5                                                                                                                                                                                                  | 510420105011       | GOKULAN G        | 1    | 1   | 1      | 1     | 1     | -     | 1     | 1       |
| 6                                                                                                                                                                                                  | \$10420105016      | MANJULAK         | 1    | 2   | 1      | /     | -     | 1     | 1     | 1       |
| 7                                                                                                                                                                                                  | 510420105024       | PURUSHOTHAMAN B  | 1    | 1   | 1      | 1     | 1     | 1     | 1     | 17      |
| 8                                                                                                                                                                                                  | \$10420105025      | RANJITH KUMAR M  | 1    | 1   | 1      | 1     | 1     | 1     | 1     | 1       |
| 9                                                                                                                                                                                                  | \$10420105306      | RAMANA.K         | /    | 1   |        | 1     | 1     | 1     | 1     | 1       |
| 10                                                                                                                                                                                                 | 510420105308       | SANTHIYA.S       | 2. 2 | 1   | 1      | 1     | 1 .   | 1     | 1     | -       |
| 11                                                                                                                                                                                                 | 510420105311       | SIVANESAN.S      | a    | 1   | 1      | 1     | 1     | 1     | T     | 1.7     |
| 12                                                                                                                                                                                                 | 510420105316       | VIJAYARAGHAVAN.R | >    | 1   | 1      | 1     | ,     | 1     | 1     | 1       |
| 13                                                                                                                                                                                                 | 510420105317       | YESHWANTHU.D     | 1    | 1   | 1      | 1     | 1     | /     | 1     | 1       |
| 14                                                                                                                                                                                                 | 510420105318       | AKSHAY VARMAN.N  | 1    | 1   | 1      | 1     | /     | ~     | a     | 1       |
| 15                                                                                                                                                                                                 | 510420105018       | MUNISHA M        | 1    | 1   | 1      | -     | 1     | /     | 1     | 1       |

Department of EEE arranged industrial visit to TNEB at Thiruvannamalai





Thiruvannamalai

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



Value added courses are arranged on the topic Power converters design and development and solar installation and maintenance





Thiruvannamalai

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Additional coaching class and practices conducted by Training and placement cell



#### ARUNAI ENGINEERING COLLEGE TIRUVANNAMALAI - 606 603.

TRAINING AND PLACEMENT CELL



:

CIRCULAR

16.08.2022

In continuation with the circular dated 11.08.2022 pertaining to **Placement Training Programme**, the following class rooms are allotted for the Final Year students who are attending placement training classes from **22.08.2022 to 26.08.2022** (5 Days).

#### Seating Arrangment:

| SI.No | Hall No   | Block | Year       | Department                     | Students Strength |
|-------|-----------|-------|------------|--------------------------------|-------------------|
| 1     | <b>S1</b> | HAS   | Final Year | EEE (41) + EIE (3) +CIVIL (16) | 60                |
| 2     | 52        | HAS   | Final Year | Mech (68)                      | 68                |
| 3     | 53        | HAS   | Final Year | CSE 'A' Sec (56)               | 56                |
| 4     | S4        | HAS   | Final Year | CSE 'B' Sec (53) + Auto (6)    | 59                |
| 5     | 55        | HAS   | Final Year | ECE (33) + CHEM (27)           | 60                |
| 6     | S6        | HAS   | Final Year | IT (34) + BIOTECH (24)         | 58                |

Note:

- 1. Department Placement Coordinator is instructed to take attendance both FN & AN Session.
- 2. Report the Attendance Details to Placement Cell and also give the mess strength to office.

Registrar

Copy submitted to the Vice Chairman Copy to: Principal Registrar Director All HOD's Sergeant TAP File

HOD/EEE



Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2021-22 Department of Humanities and Science

| Feedback<br>Collected from | Number<br>responses | of | Suggestions                       | Action taken                           | Evidence |
|----------------------------|---------------------|----|-----------------------------------|----------------------------------------|----------|
| Faculty                    | ulty 20             |    | Need extra Staff room             | Arranged extra staff room at HAS Block |          |
| Students                   | 380                 |    | Need workshop for IOT application | Arranged webinar on IOT applications   | Attached |

Prepared By

PRINCIPAL Principal Arunai Engineering College Tiruvannamalai - 606 600

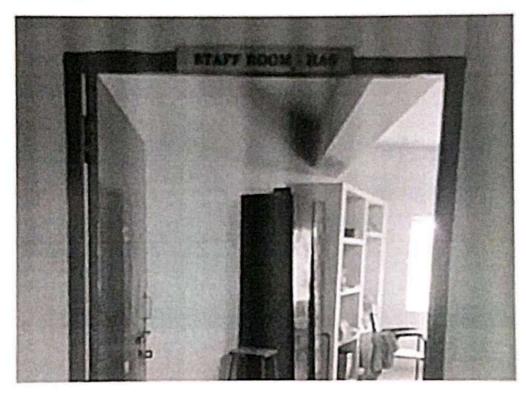


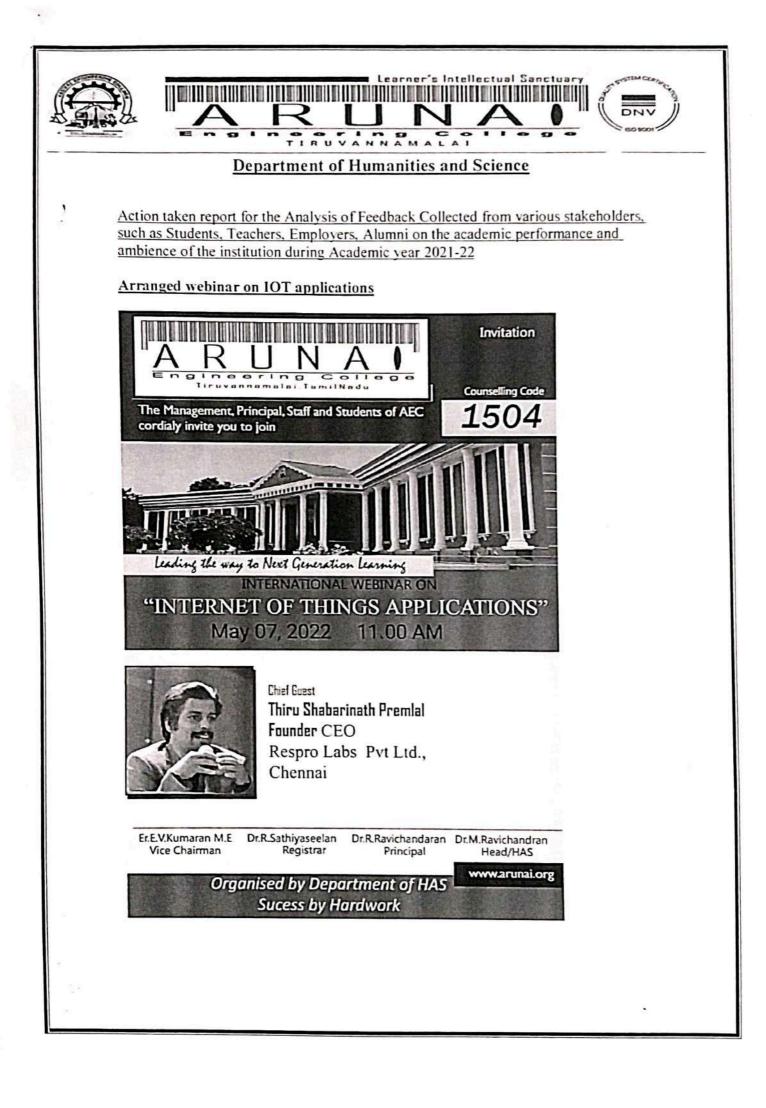
HOD-HAS Department of HAS Arunai Engineering College. Thiruvannamatal - 3.



Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Leachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2021-22

#### Staff room









Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2021-22 Department of Information Technology

| Feedback<br>Collected from | Number of responses | Suggestions                                                                                                                        | Action taken                                                                                                                                                                                                                          | Evidence |
|----------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | 13                  | 1.Textbooks for new regulation to<br>be included in the department<br>Library                                                      | 1.Purchase of textbook for the new<br>regulation R-2021 from various<br>publishers                                                                                                                                                    |          |
| Students                   | 101                 | 1.Webinar and guest lecture were<br>conduct with more practical<br>demonstration                                                   | Webinar on Lean Start-Up &<br>Minimum Viable Product conducted<br>on 03.07.2021<br>Webinar on Start up for IT- Skill Gap<br>conducted on 02.12.2021                                                                                   | 16.e     |
| Alumni                     | 83                  | 1.Placement training and practices should be provided                                                                              | 1.Enhancement employability of<br>students placement training program<br>were organized by Training and<br>Placement Cell                                                                                                             | Attached |
| Employers                  | 3                   | <ol> <li>Enhance awareness about new technologies</li> <li>Improve the domain knowledge and to put employability skills</li> </ol> | <ol> <li>Workshop on Machine Learning &amp;<br/>Deep Learning arranged for students<br/>from 25.05.2022- 27.05.2022</li> <li>Value Added Course on<br/>Programming in Python arranged for<br/>student 31.10.21 to 04.11.21</li> </ol> |          |



HOD-IT

PRINCIPAL Principal Arunai Engineering Collens Tiruvannamalai - 60





# NSTITUTION INNOVATION COUNCIL OF AEC

& Department of Information Technology



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On

# \*Lean Start-up & Minimum Viable Product \*\*



Dr.R.Sathiyaseelan

Registrar

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In the Presence of

Er.E.V.Kumaran Vice Chairman

Dr.R.Ravichandaran Principal 0



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Engineering College

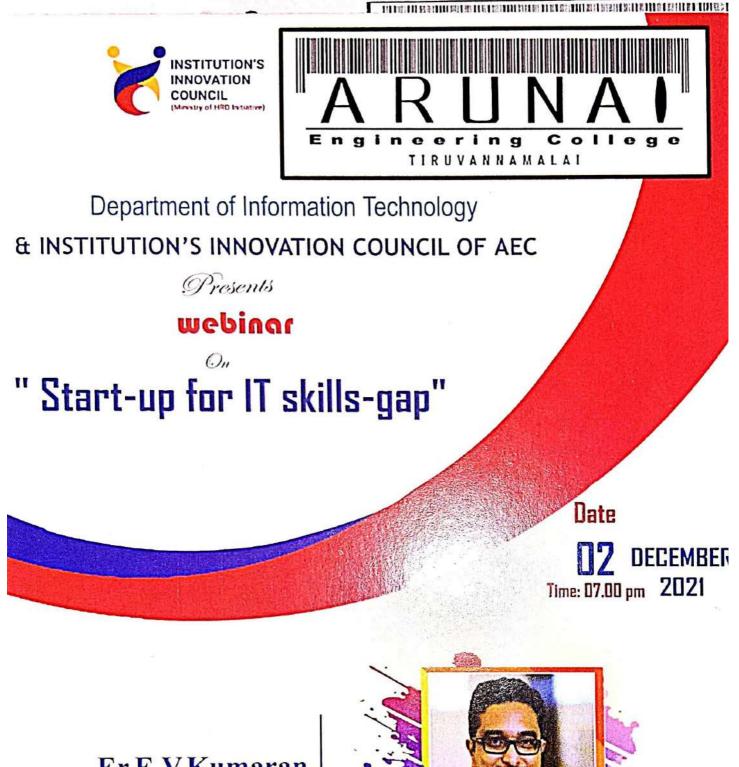
Dr.K.Anitha Head-IT

licarunal

Mr.I.S. AJITH RAJADURAI Assistant branch manager Lic of India Tiruvanhamalai branch office

Chief Guest





Er.E.V.Kumaran Vice Chairman Dr.R.Sathiyaseelan Registrar

Dr.R.Ravichandaran Principal Dr.K.Anitha

HOD-IT



Chief Guest

# Mr.Aasif lqbal J

(Founder member of iamneo.ai) Director - University Product Sales iamneo.ai





iicarunai

IIC Arunai Engineering College

www.arunai.orc

Register Now https://bit.ly/316YQwL

# A RUNA Engineering College Tiruvannamalai, TamilNadu

# DEPARTMENT OF INFORMATION TECHNOLOGY

The Management. Principal. Staff and Students of Arumai Engineering College Cordially invites you to join the Webinar On.

# MACHINE LEARNING

DATE: 26:05:2021 Wednesday @ 11:00 AM Google Meet ID: pka-qorm-zbu

> In the Presence of Er.E.V.Kumaran Vice Chairman

Dr.R.Sathiyaseelan Registrar

Dr.R.Ravichandaran Principal

Dr.K.Anitha HOD-1T





Resource Person

Team Lead Intellect Design Arena Limited Chennai





### Department of Information Technology

Organising

#### COURSE DURATION OCTOBER 2021- NOVEMBER 2021

PROGRAMMING IN

THON

#### **Resource Person**

# Mr.Uvan L

CEO-Projects, STU Innovations Pvt Ltd



www.arunai.org



| Feedback<br>Collected from | Number<br>responses | of Suggestions                                                                               | Action taken                                                                                                             | Evidence |
|----------------------------|---------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | 7                   | 1.Need to learn modeling and<br>analyzing                                                    | Arranged webinar on modeling relevant industrial program.                                                                |          |
| Students                   | 70                  | 1. Need more coaching class for<br>Engineering Graphics Subject.<br>2.Need modeling course's | <ol> <li>Prepared Smart material for<br/>Engineering Graphics subjects.</li> <li>Arranged Value Added courses</li> </ol> |          |
| Alumni                     | 6                   | Need Platform to learn new things                                                            | Given internet facility and library<br>facility to learn future technology and<br>higher studies related information's.  | Attached |
| Employers                  | 4                   | Interdisciplinary skilled students needed.                                                   | Students learning programming and<br>coding through Naan Mudhalvan<br>program                                            |          |

S. Re-F

Prepared By

Alfrydrom HOD-MECH

Principal Arunai Engineering College Tiruvannamalai - 606 603



#### ARUNAI ENGINEERING COLLEGE TIRUVANNAMALAI DEPARTMENT OF MECHANICAL ENGINEERING

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2021-2022

Webinar organised

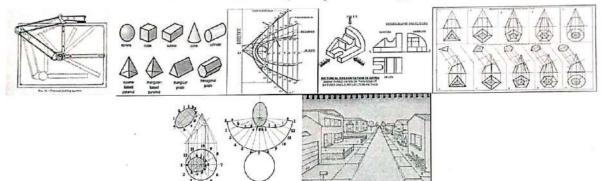


#### **GE3251 – ENGINEERING GRAPHICS**

( The Engineers Language )

2022-2023 ( EVEN SEM )

#### Workbook Material { Daily Practice Questions }



6+12

Prepared by

#### Name : . VETRIVEL . M.

Reg no :.....

Section :.....

#### GE1251 ENGINEERING GRAPHICS LTPC COURSE OBJECTIVES

- more learning objective of this course is to prepare the students for
   main learning objective of this course is to prepare the students for
   Drawing incomening purves.
   Drawing introduced of studes and section of solids.
   Drawing incoment of solids
   Drawing isometric and perspective projections of simple solids.

#### CONCEPTS AND CONVENTIONS (Not for Examination)

Importance of graphics in engineering applications - Use of drafting instruments - BIS conventions and specifications — Size, layout and folding of drawing sheets — Lettering and dimensioning.

UNITI PLANE CURVES Unit PLANE CURVES Basic Geometical constructions, Curves used in engineering practices: Conics — Construction of eligne, parabola and hyperbola by eccentricity method — Construction of cycloid — construction of involutes of square and circle — Drawing of langents and normal to the above curves.

#### UNITE PROJECTION OF POINTS, LINES AND PLANE SURFACE

OWNIN PROJECTION OF POINTS, LINES AND PLANE SURFACE 912 Offlographic projection-principle-Principal planes. First angle projection-projection of points. Projection of straight lines (only First angle projections) inclined to both the principal planes -Determination of true lengths and true userializations by relating the method and traces. Projection of planes (polygonal and circular surfaces) inclined to both the principal planes by rotating object method.

PROJECTION OF SOLIDS AND FREEHAND SKETCHING UNIT III 6+12 UNIT III PROJECTION OF SOLIDS AND FREEMAND SKETCHING Projection of simple solids like priving, symamids, cipitoder cipite and interacted solids when the axis is inclined to one of the principal planes and parallel to the other by rotating object method. Visualization concepts and Free Hand sketching. Visualization phinciples — Representation of Three Dimensional doests — Layout of vexes. Freehand sketching of multiple vexes from platchial vexes of objects. Practicing three dimensional modeling of a mple objects by CAD Software (Not for examination)

#### UNIT IV PROJECTION OF SECTIONED SOLIDS AND DEVELOPMENT OF SURFACES

5+12 SURFACES 5+12 Sectioning of above solids in simple vertical position when the outling plane is inclined to the one of the principal planes and perpendicular to the other — obtaining true shape of section. Development of lateral surfaces of simple and tectioned solids — Primsir, pyramids cylinders and cones. Practicing three dmiensional modeling of simple objects by CAD Software (Not for examination)

ISOMETRIC AND PERSPECTIVE PROJECTIONS Principles of isometric projection — isometric scale - Isometric projections of simple solids and truncated solids - Prinars, payramids, cylinders, cones combination of two solid objects in simple variatal postoons - Perspective projection of simple solids-Prisms, pyramids and cylinders by visual ray method. Practicing three dimensional modeling of isometric projection of simple objects by CAD Software (Not for examination) TOTAL: (L=30; P=60) 90 PERIODS

#### OUTCOMES:

- UTCOMES: successful completion of this course, the student will be able to Use BIS conventions and specifications for engineering drawing. Construct the conic curves, involving projection of lines. Solve practical problems involving projection of lines. Draw the orthographic, isometric and perspective projections of simple solids, Draw the development of simple solids.

TEXT BOOK: 1. Bhgtt N.D. and Panchal V.M., "Engineering Drawing", Charotar Publishing House 53 Editor, 2019. 2. Natrajan V., "A test Blook of Engineering Graphics", Dhanalakshimi Publishers, Chennel. 2018. 3. Parthasarathy N. S. and Vela Murall, "Engineering Drawing", Oxford University Press, 2015.

Faculty of Mechanical Engineering

Arunai Engineering College

#### REFERENCES:

- REFERENCES: 1. Basant Agi swal and Agarwal C.M., "Engineering Drawing", McGraw Hill, 2<sup>rd</sup> Edition, 2019 2. Gopatakins ma K.R., "Engineering Drawing" (Vol. 1811 combined), Subhas Publicatione, Bangalore 27 Editor, 2017. 3. Luzzader, Warren J. and Duff, John M., "Lundamentals of Engineering Drawing with an introduction to Interact are Computer Graphics for Design and Production, Eastern Economy Editor, Privatice to Interact are Computer Graphics for Design and Production, Eastern Economy Editor, Private 10. Basant Agina (San Care), "Engineering Drawing With an interaction of the San Care)."
- Hall of Ind a Pvt, Ltd, New Delhi, 2005. Parthasarathy N. S. and Vela Murali, "Engineering Graphics", Oxford University, Press. New Delhi,
- 4
- 2015. Shah M.B. and Rana B.C., "Engineering Drawing", Pearson Education India, 2<sup>™</sup> Edition, 2009 Venugopal K. and Prabhu Raja V., "Engineering Graphics", New Age International (P) Limited, 2008. 5.

- Publication of Bureau of Indian Standards:

   1. IS 10711 2001: Technical products Documentation -- Size and layout of drawing sheets.

   2. IS 9969 (Paris 0.6.1) -- 2001: Technical products Documentation -- Lattering.

   3. IS 10714 (Part 20) -- 2001: A SP 45---2003, Lines for technical crawings.

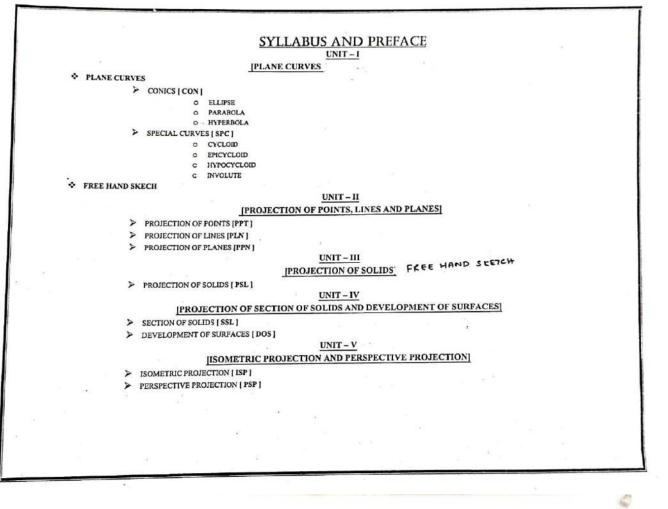
   4. IS 11669--1986 & SP 46---2003, University in technical crawings.

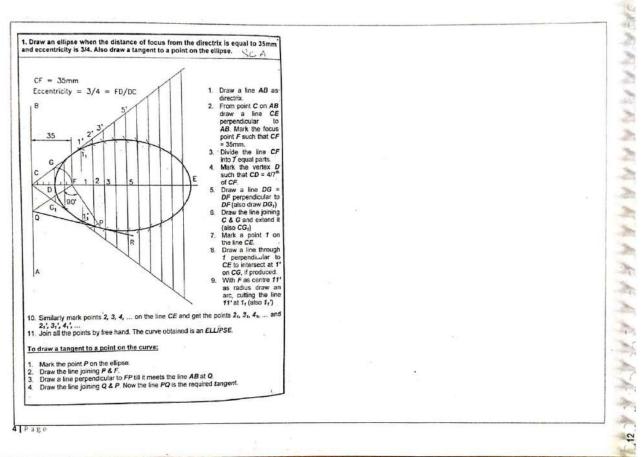
   5. IS 15021 (Parts 0.4) ---2001: Technical brawings -- Projection Methods.

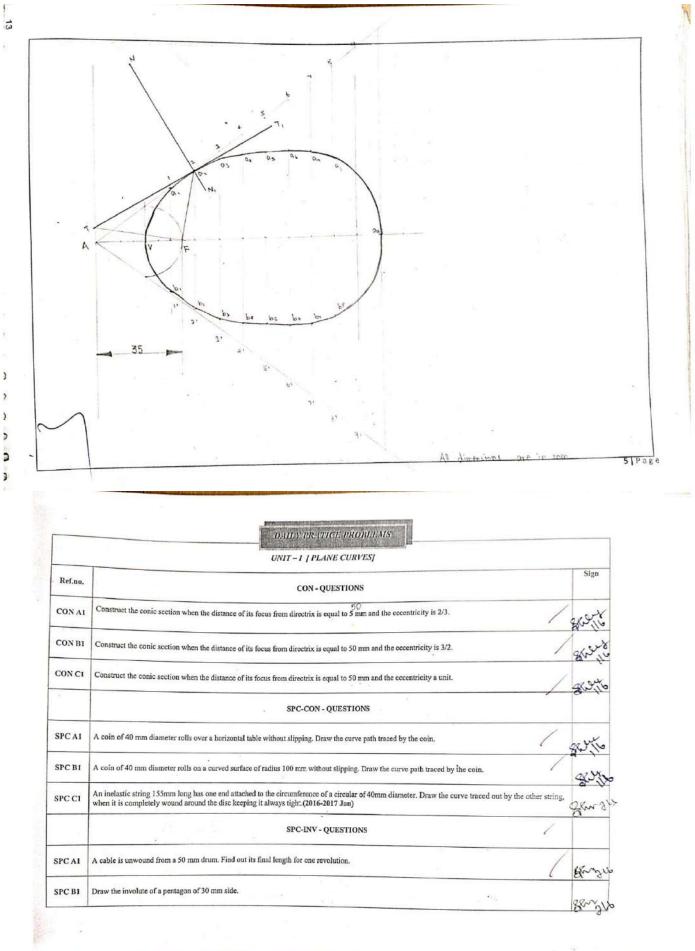
Special points applicable to University Examinations on Engineering Graphics:

- There will be five questions, each of either or type obtaining all units of the syllabus.
   All questions will carry equal marks of 20 each marking a total of 100.
   The enswer paper shall consist of dowing sheets of AS size only. The students will be permitted to use appropriate scale to fit solution within A3 size.
   The examination will be conducted in appropriate sessions on the same day.

|     |   |   |   |   |   | A PO I |     |   |      | PSG |    |   |     |   |
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| 6   | 3 | 1 | 2 | Q | 2 |        |     |   | 3    |     | 2  | 2 | 2   | - |
| Avs | 3 | 1 | 2 | 1 | 2 |        |     |   | 3    |     | 2  | 2 | 2   |   |







Value Added Course Conducted



NO.103 / 16 A, 1st FLOOR, OPP to PACHAIYAPPAS SILKS, TIRUVANNAMALAI - 606601. Contact No : 701 030 4677 , 989 470 6097

То

Date: 11.08.2021

The HOD

Department of Mechanical Engineering

Arunai Engineering College

Tiruvannamalai.

Respected sir

Sub: Resource Person-Course conduction- reg.

We are happy for your request to conduct CATIA, 3D PRINTER, 3D SCANNER and

Reverse Engineering Course in your institute. In the connection Mr.K. Srivatsan and S. Ashik.

will be the Resource Persons for conducting the course. We will be meeting you in time for

further details.

Thanking you

With regards

Alpha CADD Solutions

Authorized Signatory for Alpha CADD Solutions



(T. SURESH)

CORPORATE ADDRESS: NO.103 / 16 A, 1st FLOOR, OPP to PACHAIYAPPAS SILKS TIRUVANNAMALAI - 606601. Contact No : 701 030 4677 , 989 470 6097

## **ARUNAI ENGINEERING COLLEGE**

DEPARTMENT OF MECHANICAL ENGINEERING

The Management, Principal, Staff and Students of Arunai Engineering College Cordially invite you

to join

#### VAUE ADDED PROGRAM ON 3D DESIGN & MODELLING

GUESTS

Mr. K.Srivatsan, DESIGN HEAD, ALPHA CADD

Mr. S.Ashik, TRAINING SENIOR, ALPHA CADD

Date:4.9.21 @ 9.30am Venue :CAD Lab

In the Presence of

Er.E.V.KUMARAN, Vice Chairman

Dr.R.Sathiyaseelan Registrar Dr.R.Ravichandaran Principal Dr.L.Jayakumar HOD-MECH









## FEEDBACK ACTION TAKEN REPORT

# ACADEMIC YEAR

### 2020 - 2021



#### Department of Biotechnology

#### Date:12/4/2021

| Feedback<br>Collected<br>from | Number of<br>responses | Suggestions                                                                                        | Action taken                                                                                            | Evidence                                                                                                        |
|-------------------------------|------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Faculty                       | 6                      | Be encouraged to offer multi-<br>disciplinary courses                                              | Open elective course subject<br>was adopted for trans-<br>disciplinary approach<br>(OML552- Microscopy) | Student Mark sheet attached.                                                                                    |
| Student                       | 97                     | Offline sessions must be planned                                                                   | Based on the guidelines for<br>Covid 19, it is not feasible.                                            | -                                                                                                               |
| Alumni                        | 32                     | Arrange some course or lectures<br>about recent trends in biotechnology<br>for improving knowledge | Value added course arranged for students                                                                | Value Added Program on the<br>title "Bioinformatics: approach to<br>drug design" on 15.03.2021 to<br>19.03.2021 |
| Employers                     | -                      |                                                                                                    | 5-8                                                                                                     | -                                                                                                               |

Prepaged By

Operan Kun

HOD-BT

Principal

Principal Arunai Engineering College Tiruvannamalai - 606 603



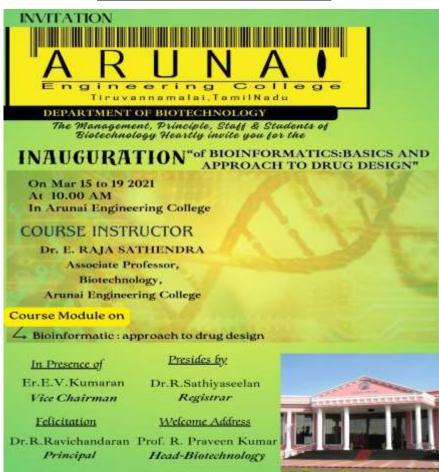
#### **Department of Biotechnology**

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| 10121034             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AI ENGINEE                       |                                             | LLEGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                                                      |              | REGULA                  | ricinal          | 2017 (0    | (JCIS)    |
| \$599.A.M.S.         | COUPER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Linchererinie                    | icity.                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                                                      |              | CREDITS                 | LETTER           | GRADE      | Lares     |
| 255                  | CODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | amore mille    |                                                      |              | Netrice accession in pr | GRADE            | PICHINET   | REIII     |
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| Gred<br>Gred         | lits Registered<br>dits Esmed<br>de Points Esmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1<br>4<br>4<br>8                 | II<br>4<br>4<br>8                           | 11<br>11<br>25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Laly 2021      | Ro Examp)<br>V<br>10<br>10<br>45                     | ducted in    |                         | <br> <br> <br>   | ix         | ×         |
| Gred<br>Gred<br>Gred | lits Registered<br>dits Earned<br>de Points Earned<br>de Point Average (GPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1<br>4<br>4<br>6<br>9 6.000      | Reston Nov<br>Febr<br>II<br>4<br>6<br>6.000 | III           IIII           IIII           IIII           IIII           IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | rJuly 2021 (   | V<br>18<br>18<br>18<br>18<br>18<br>10<br>10<br>7,500 |              |                         |                  |            |           |
| Gred<br>Gred<br>Gred | lits Registered<br>dits Esmed<br>de Points Esmed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1<br>4<br>4<br>4<br>1<br>0 0.000 | Reston Nov<br>Febr<br>II<br>4<br>6<br>6.000 | III           IIII           IIII           IIII           IIII           IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | Paint Average  | V<br>18<br>18<br>18<br>18<br>18<br>10<br>10<br>7,500 | 7.03         |                         | ostructio        | IN I ENGLI | 514       |

Open elective course subject was adopted for trans- disciplinary approach (OML552- Microscopy)



#### **Department of Biotechnology**



Value Added Program on the title "Bioinformatics: approach to drug design" on 15 .03 .2021 to 19.03 .2021



#### **Department of Chemical Engineering**

| Feedback<br>Collected from | Number of<br>responses | Suggestions                                                                             | Action taken                                                                                                        | Evidence |
|----------------------------|------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | 4                      | The practical exposure to the faculty members by undergoing. workshop/ FDP              | Faculty members are motivated to participate FDP                                                                    |          |
| Students                   | 18                     | Offline sessions must be planned.                                                       | Given the covid-19 condition, this is<br>not conceivable. It will be completed<br>once the constraints are relaxed. |          |
| Alumni                     | 15                     | Placement training and preparation should be provided.                                  | The Training and Placement Cell<br>arranges additional coaching<br>sessions and practice opportunities.             | Attached |
| Employers                  | 7                      | Allow students to visit industries for interactive sessions and learning opportunities. | Permitted students for in-plant training in petrochemical industry                                                  |          |

A. Valu

Principal Arunai Engineering College Tiruvannamalai - 606 603

**Prepared By** 

HOD/CHEMICAL





The Training and Placement Cell arranges additional coaching sessions and practice opportunities.

|                         |                                                              |                       |                  | ALAI - 606 603.                                     |    |
|-------------------------|--------------------------------------------------------------|-----------------------|------------------|-----------------------------------------------------|----|
|                         |                                                              | TRAI                  | NING AND         | PLACEMENT CELL                                      | -  |
| PL/1                    | AP/3//02/20                                                  | (*21) <del>4</del> -1 | CIRC             | ULAR 12.03.20                                       | 02 |
|                         | In                                                           | continuation w        | ith the circular | dated 08.03.2021 pertaining to Placement            |    |
|                         |                                                              |                       |                  | allotted for the students who are attending         |    |
| place                   | ement training                                               | classes from 1        | 6.03.2021 to 18  | .03.2021 @ 9.20 AM to 4.30 PM                       |    |
|                         |                                                              |                       |                  |                                                     |    |
| Morn                    |                                                              | 9.20 am to 1.00       |                  |                                                     |    |
|                         |                                                              |                       | ) am to 11.20 ar |                                                     |    |
|                         |                                                              |                       | 00 pm to 1.40 p  | m)                                                  |    |
| After                   | noon Session                                                 | : 1.40 pm to 4.4      | 10 pm            |                                                     |    |
|                         |                                                              |                       |                  |                                                     |    |
| -                       | SL.NO                                                        | HALL NO.              | BLOCK            | DEPARTMENT                                          |    |
|                         |                                                              | 53                    | HAS              | CSE 'A' & ECE                                       |    |
|                         | 1                                                            | 10000                 | HAS              | CSE 'B' & EEE                                       |    |
|                         |                                                              | 54                    | 11/10            | CSE B & EEE                                         |    |
|                         | 2                                                            | S4<br>S5              | HAS              | IT, BIOTECH & EIE                                   |    |
|                         | 2                                                            | \$5                   |                  | IT, BIOTECH & EIE                                   |    |
|                         | 2                                                            | \$5                   | HAS              |                                                     |    |
|                         | 2                                                            | \$5                   | HAS              | IT, BIOTECH & EIE                                   |    |
|                         | 2                                                            | \$5                   | HAS              | IT, BIOTECH & EIE                                   |    |
|                         | 2                                                            | \$5                   | HAS              | IT, BIOTECH & EIE<br>MECHANICAL, AUTOMOBILE & CIVIL |    |
| Сору                    | 2<br>3<br>4                                                  | <b>S5</b><br>S6       | HAS<br>HAS       | IT, BIOTECH & EIE                                   |    |
| Copy                    | 2<br>3<br>4<br>submitted to the                              | \$5                   | HAS<br>HAS       | IT, BIOTECH & EIE<br>MECHANICAL, AUTOMOBILE & CIVIL |    |
| Copy<br>Princi<br>Regis | 2<br>3<br>4<br>submitted to th<br>to:                        | <b>S5</b><br>S6       | HAS<br>HAS       | IT, BIOTECH & EIE<br>MECHANICAL, AUTOMOBILE & CIVIL |    |
| Copy<br>Princi          | 2<br>3<br>4<br>submitted to th<br>to:<br>ipal<br>trar<br>ODs | <b>S5</b><br>S6       | HAS<br>HAS       | IT, BIOTECH & EIE<br>MECHANICAL, AUTOMOBILE & CIVIL |    |

an a th

Permitted students for in-plant training in petrochemical industry.



Date: 19 June 2021

#### CERTIFICATE

This is to certify that Mr. Manojkumar G, Final Year, B.Tech – Chemical Engineering student of Arunai Engineering College, Tiruvannamalai has undergone Internship Training in M/s. Southern Petrochemical Industries Corporation Ltd., SPIC Nagar, Tuticorin.

Internship Training details are as furnished below:

| 1) Type of Training Imparted        | : INTERNSHIP TRAINING         |
|-------------------------------------|-------------------------------|
| 2) Period of Institutional Training | : 27 May 2021 to 19 June 2021 |
| 3) Allotment of Department          | : DAP - PLANT                 |
| 4) Conduct & Character              | : GOOD                        |
| 5) Performance during Training      | : GOOD                        |
| 6) Attendance during Training       | : REGULAR                     |
|                                     |                               |

R. Qank R. Ramkumar Joint Manager - Training & Development



Southern Petrochemical Industries Corporation Limited (CIN: L11101TN1969PLC005778) Factory: SPIC Nagar, Muthiahpuram Post, Tuticonn 628 005 Tamilnadu, India Phone : +91 (0461) 2355401 | Fax : +91 (0461) 2355588 | Email : spiccorp@spic.co.in | www.spic.in

A. Wall

**Prepared By** 

HOD/CHEMICAL



#### **Department of Civil Engineering**

Date:21.04.2021

| Feedback<br>Collected from | Number of responses | Suggestions                                                                                                          | Action taken                                                                                                           | Evidence                                                                                                          |
|----------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Faculty                    | 7                   | Wi-Fi Facility is needed for smooth conduct of online classes more effectively.                                      | Wi-Fi facility provided at Civil Department.                                                                           | Wi-Fi facility provided at<br>Civil Department on<br>03/11/2020.                                                  |
| Students                   | 35                  | Offline sessions must be planned.                                                                                    | Given the covid-19 condition,<br>this is not conceivable. It will be<br>completed once the constraints<br>are relaxed. | Offline sessions started after the relaxation of constraints.                                                     |
| Alumni                     | 15                  | Webinar to be organized to<br>familiarize the students with the<br>career opportunity in Civil<br>Engineering field. | Webinar were organized to know<br>about the career opportunity<br>available in Civil engineering field.                | Webinar were conducted on<br>"Entrepreneurship and<br>innovation as career<br>opportunity" on 23/03/2021.         |
| Employers                  | 3                   | Introduce some skill development sessions.                                                                           | Skill development sessions are provided to the students as a part of placement.                                        | Skill development sessions<br>were conducted by M/s Smart<br>Training Resources from<br>16/03/2021 to 18/03/2021. |

R. Kothiona

HOD/CIVIL HEAD OF THE DEPARTMENT DEPT.OF CIVIL ENGINEERING ARUNAI ENGINEERING UJLLEGE TIRUVANNAMALAI - 605 603

PRINCIPAL

Principal Anutai Engineering College Tiruvannamalai - 606 603



**1.** Wi-Fi facility provided at Civil Department on 03/11/2020.



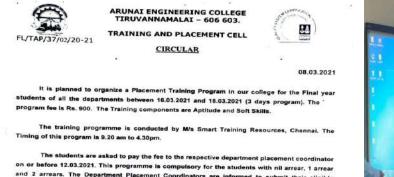
2. Offline sessions started after the relaxation of constraints.



**3.** Webinar were conducted on "Entrepreneurship and innovation as career opportunity" on 23/03/2021.



4. Skill development sessions were conducted by M/s Smart Training Resources from 16/03/2021 to 18/03/2021.

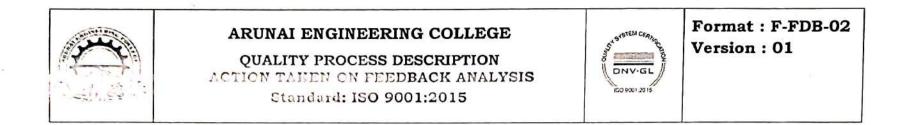


on or before 12.03.2021. This programme is compulsory for the students with nil arrear, 1 arrear and 2 arrears. The Department Placement Coordinators are informed to submit their eligible students name list for the training programme to the placement cell (hard and soft copy) on or before 12.03.2021 at 3.00pm. The theory classes are suspended during the training for the final years who are attending the programme. HoDs are requested to make necessary arrangements for the remaining students.

Copy submitted to the Vice Chairman Copy to: Principal Registrar All HODs ALL NB TAP FILE

Registrar





#### Department of Computer Science and Engineering

| Alumni               | _ |                                               | _               |         |
|----------------------|---|-----------------------------------------------|-----------------|---------|
| Employers            | - | _                                             | ; <del></del> ] |         |
| R Sur<br>Prepared By | - | Arunai Engineering Co<br>Tiruvannamalai - 606 | Hege<br>603     | HOD-CSE |





**ARUNAI ENGINEERING COLLEGE** 

Tiruvannamalai



#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2020-21

#### **Department of Electrical and Electronics Engineering**

| Feedback<br>Collected from | Number of<br>responses | Suggestions                                                                                                                                       | Action taken                                                                                                                        | Evidence |
|----------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | 5                      | Curriculum gap identification and<br>recommendation in the syllabus<br>Power electronics laboratory,<br>Control and instrumentation<br>laboratory | Through proper channel a suggestion<br>letter forwarded to the Director, Centre<br>of Academic Courses, Anna University<br>Chennai. |          |
| Students                   | 48                     | -                                                                                                                                                 | -                                                                                                                                   | Attached |
| Alumni                     | 2                      | -                                                                                                                                                 | -                                                                                                                                   |          |
| Employers                  | 1                      | -                                                                                                                                                 | -                                                                                                                                   |          |

**Prepared By** 

HOD-EEE

Principal

Arunai Engineering College Tiruvannamalai - 606 603



| Feedback<br>Collected from | Number<br>responses | of | Suggestions                                                                                    | Action taken                                                                                                                                                      | Evidence |
|----------------------------|---------------------|----|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | 18                  |    | Computer facilities required for<br>staff at staff room<br>Need faculty development<br>program | <ol> <li>Computer facility provided at HAS<br/>Block staff room</li> <li>arranged faculty development<br/>program on participatory Teaching<br/>method</li> </ol> | Attached |
| Students                   | 370                 |    | Need special coaching for autonomous mobile robot                                              | Arrange webinar on autonomous mobile robot                                                                                                                        |          |

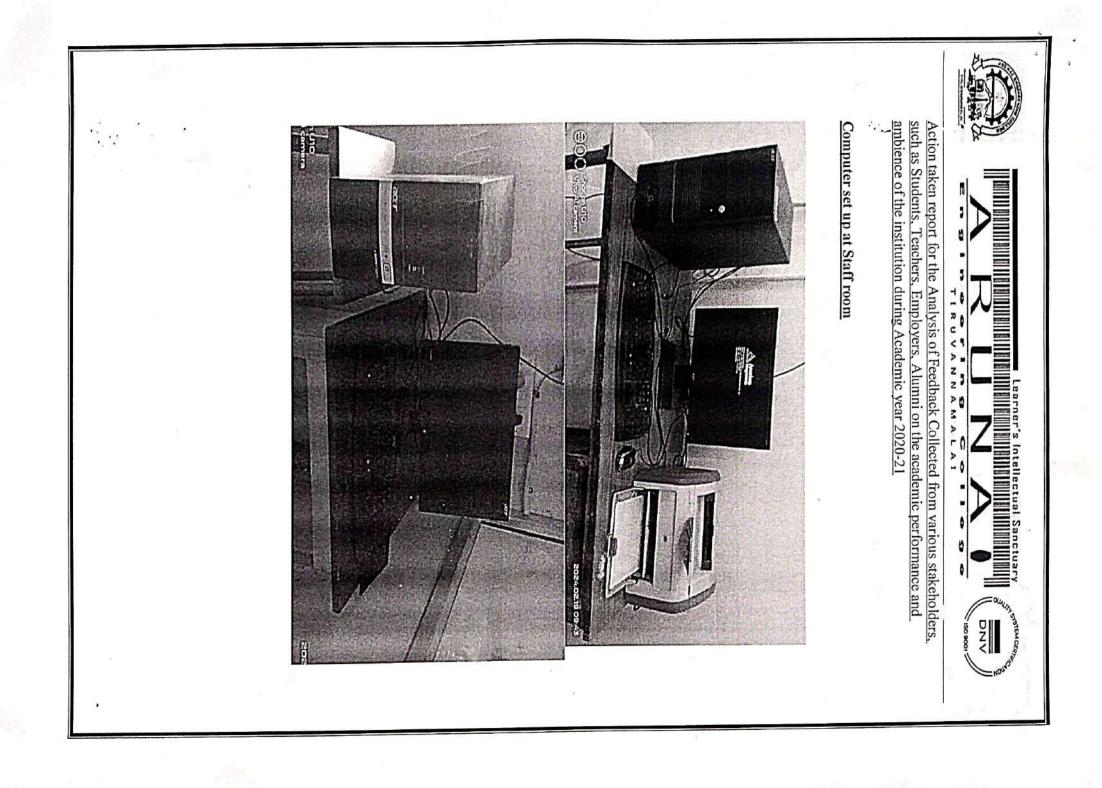
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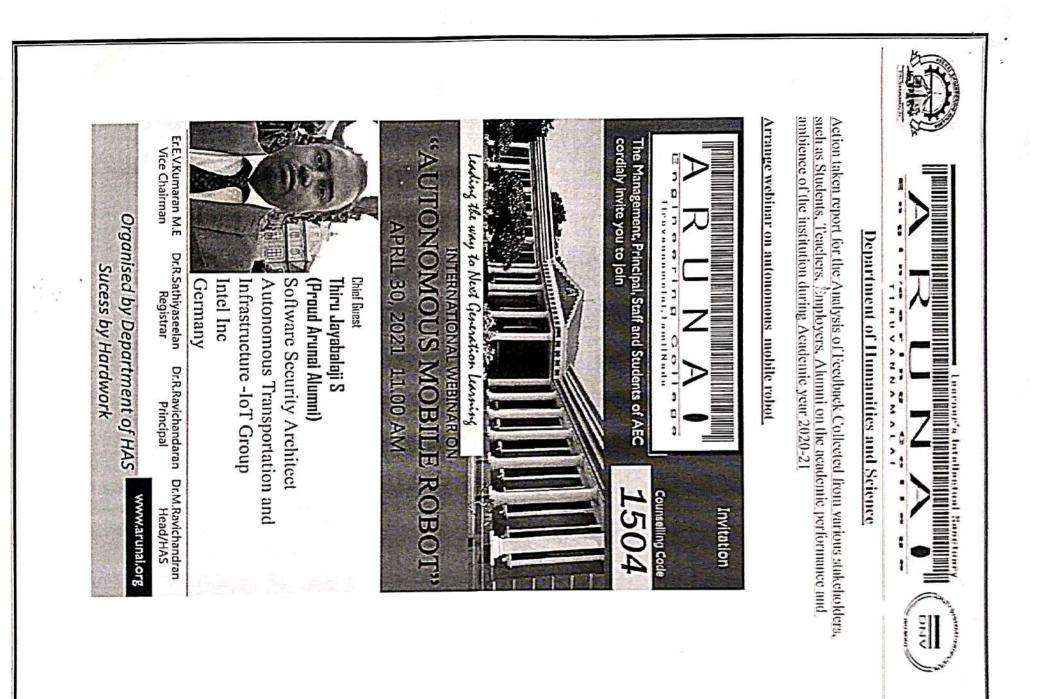


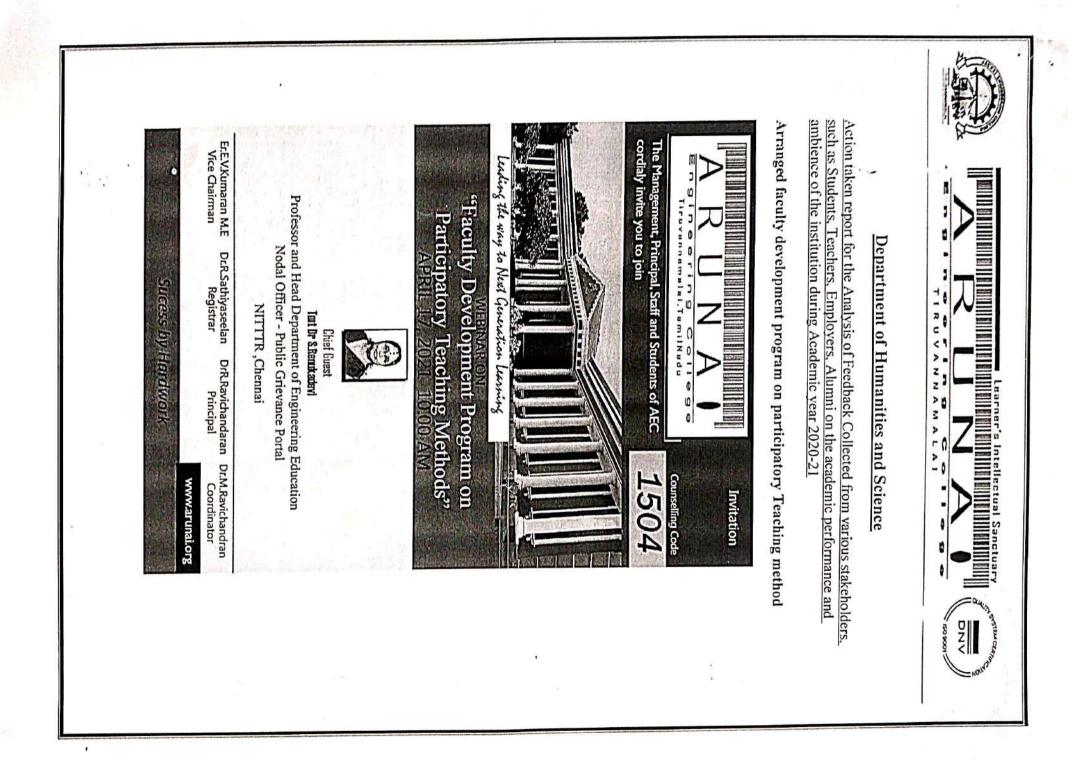
Principal Arunal Engineering College Tiruvannamalai - 606 503

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HOD-HAS Department of HAS Arunai Engineering College Thiruvannamalai - 3.









#### **Department of Information Technology**

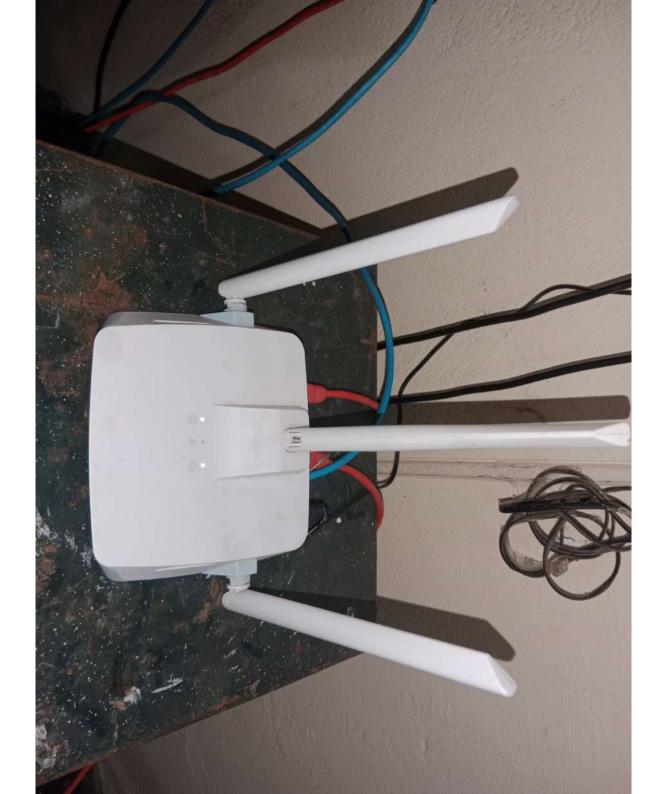
| Feedback<br>Collected from | Number of responses | Suggestions                                                                                                                        | Action taken                                                                                                                                                                                                                                | Evidence |
|----------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | 12                  | 1.Wi-Fi facility is required at staff room                                                                                         | 1.Wi-Fi facility provided at IT Block                                                                                                                                                                                                       |          |
| Students                   | 64                  | 1.Soft skill program were conduct with more practical demonstration                                                                | 1.Soft skill development Program on 14-08-2019                                                                                                                                                                                              |          |
| Alumni                     | 83                  | 1.Placement carrier guidance<br>program were conduct that help to<br>students in IT industry                                       | Path To IT Job arranged for students<br>on 21.03.2021                                                                                                                                                                                       | Attached |
| Employers                  | 3                   | <ol> <li>Enhance awareness about new technologies</li> <li>Improve the domain knowledge and to put employability skills</li> </ol> | <ol> <li>Webinar on Cyber Security issues<br/>and Challenges from Hackers arranged<br/>for students on 24.02.2020</li> <li>Employability Skill Program on<br/>MSME Schemes For Self Employment<br/>on MSME Schemes on 13.04.2021</li> </ol> |          |

**Prepared By** 

HOD-IT

PRINCIPAL

Principal Arunai Engineering College The second and - 800 503



# www.arunai.org

Lihennal

Standard Chartered Bank Mr.Karthikeyan Vadivel Bigdata Engineer Chief Guest

Dr.K.Anitha HOD-IT

Dr.R.Ravichandaran Principal

**Er.E.V.Kumaran** In the Presence of Vice Chairman

kt-mipg-on

Dr.R.Sathiyaseelan Registrar

Date: 21:03:2021 @ 10.00 am

Tiruvannamalai, TamilNadu

unai Engineering College Cordially invites you to join the

Workshop Ou.

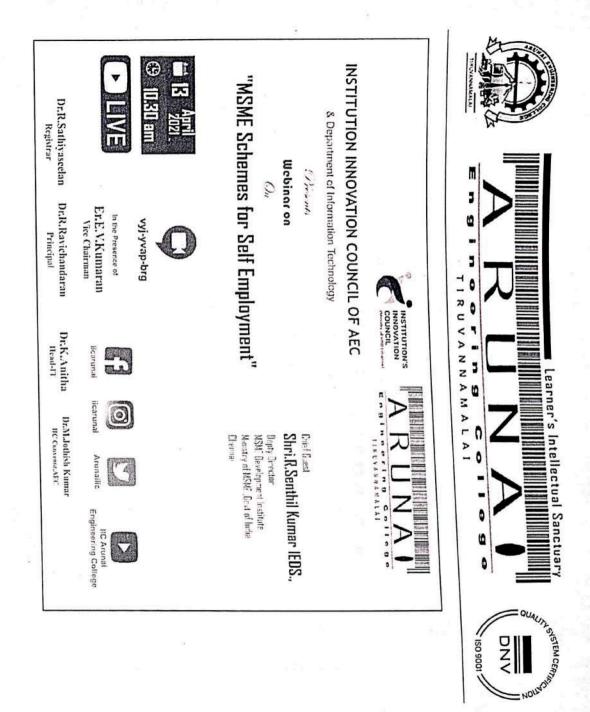
The Management, Principal. Staff and Students of

DEPARTMENT OF INFORMATION TECHNOLOGY

Engineering

College

Witation



# MSME SCHEMES FOR SELF EMPLOYMENT

encourage and expertise the view of the students in the field of MSME SCHEMES FOR SELF INTRODUCTION: This webinar was conducted by dept of IT in association with the ISTE to EMPLOYMENT.

of MSME, Govt of India, Chennai GUEST: Shri.R.Senthil kumar IEDS., Depty Director, MSME Development Institute, Ministry



#### **Department of Mechanical Engineering**

| Feedback<br>Collected from | Number of responses | Suggestions                                                                                                                                              | Action taken                                                                                                 | Evidence |  |
|----------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------|--|
| Faculty                    | 8                   | 1.Online Webinar needed to<br>update current trends in<br>curriculum and industry                                                                        | 1.Arranged webinar to learn new technique                                                                    |          |  |
| Students                   | 85                  | <ol> <li>Need Smart material that<br/>includes all type of question from<br/>university perspective.</li> <li>Need Industrial experts program</li> </ol> | <ol> <li>Prepared study material for<br/>problematic subjects.</li> <li>2.arranged online webinar</li> </ol> |          |  |
| Alumni                     |                     | -                                                                                                                                                        | -                                                                                                            | Attached |  |
| Employers                  | -                   | -                                                                                                                                                        | -                                                                                                            | •        |  |

S. Re-F

Prepared By

floght HOD-MECH

Principal

Arunai Engineering College Tiruvannamalai - 606 603



#### ARUNAI ENGINEERING COLLEGE TIRUVANNAMALAI DEPARTMENT OF MECHANICAL ENGINEERING

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2020-2021

Prepared Work Book Materials for Students include two marks , sixteen marks and university questions.

# <section-header><section-header><section-header> ME6505 - DYNAMICS OF MACHINES Image: Construction of the standing of the s

ME6505 - DYNAMICS OF MACHINES

SYLLABUS & PREFACE

#### UNIT - I

#### FORCE ANALYSIS

Analysis of Reciprocating Parts of Engine [ARE]
Analysis of Rotating Parts of Engine -[ARO]

#### UNIT – II

#### BALANCING .

| 4 Balancing of Rotating Masses | [BRO] |
|--------------------------------|-------|
|                                | [BRE] |

#### UNIT – III

#### SINGLE DEGREE FREE VIBRATION

Free Longitudinal Vibration. [FRL]
 Free Transverse Vibration. [FRT]
 Free Torsional Vibration [FTO]

#### UNIT – IV

#### FORCED VIBRATION

4 Forced Vibration. [FOR]

#### UNIT – V

#### MECHANISM FOR CONTROL

- ↓ Governors [(
- + Governors [GOV] + Gyroscopic Couple [GYS]

Lesson Plan

| UNIT | REF '   | TITLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Hr      |        | Date of Closure |         | Material     |         |
|------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|-----------------|---------|--------------|---------|
|      |         | 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Planned | Actual | Planned         | Actual. | Verification | Remarks |
| I    | ARE     | Analysis of Reciprocating parts of Engine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - 10    |        |                 |         | State 1      |         |
|      | ARO     | Analysis of Rotating parts of Engine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |        |                 |         |              | 5 9 51  |
| п    | BRO     | Balancing of Rotating Masses A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |        |                 |         |              |         |
|      | BRE     | Balancing of Reciprocating Masses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |        |                 |         | ·            |         |
| ш    | FRL     | Free Longitudinal Vibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |        | -               |         |              |         |
|      | FRT     | Free Transverse Vibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |        | ÷.,             |         |              |         |
|      | FTO     | Free Torsional Vibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |        |                 |         |              |         |
| IV   | FOR     | Forced Vibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |        | 7               | 32<br>3 |              |         |
| v    | GOV     | Governors $\gamma$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |        |                 |         | 2            |         |
|      | GYS     | ∫ Gyroscopic Couple ♀                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |        |                 |         |              |         |
|      | DEPARTI | PROFESSION AND A CONTRACT OF MECHANICAL CIVILIANCE AND A CONTRACT OF MECHANICAL CIVILA |         | ~      |                 | SF      | huy          |         |

ARUNAI ENGINEERING COLLEGE THIRUVAVNAMALAI-GOC 603

Tmom 2 WIC Afc

ARO E1: m= 7 bonnes = 7000 kg, R=2m, DE=9015: 90 km-m. N=1000pm, w= 9mm = 12.5 7/5, G= 2.037. N=121/N=118 ARD E: A host 200 had cross compound Steam engine develop's BOD kw at 90 ppm, The Co-ethcient of fluctuations g enougy as found from the two ning moment diagram. is to be 0.1 and Speech is to be kept withinto: ". of the mean speed. Find the man of the flywhead requised, if the radius of gyration is 2m etres. ARO F 1: P=75 kw, N=2500pm, DE= 30%. of W, cs= 117.

 $C_1 = 0.02$ ; k = p.6;  $\omega = 2.6/18713$ ,  $w = \frac{p_{Rbo}}{N} = 18000000$ ;  $\Delta \epsilon = 307$ ; w, = 54000 - m, m = 1094.96 kg.

Aro G: The turning moment diagrams for a multiculial ensine has been drawn to a scale Imm = boon-to vertically and Imm = 3° horizontally. The intercepted ateas between the output torque curve and the mean resistance line, taken in order from one end, are as follows: +52, -124, +92, -140, +85, -72 and +107 mm, when the ensine is running at a speed & boo oppm. If the total fluctuation of Speed is not to enceed ± 1.5% of the mean, find the necessary man of the flywheel of Madius 0.5m.

1 0001 = 3 100 F.

1000 8 Tmean= 1000 N-m T=1moon 10007 30081120 -500 cos20 = 4000 300 81 120 = 500 00320 800 200 00820 6em20 = 8=29.90 10msm=0 Drox co office of APCX DMIMING Lo-Dfc. 8 mor = 119050

<u>FTOE:</u> A sheel shaft ison long in grown in dia for the first 0.6m of the length, 60mm in diameter of the near 0.5m of the length, 60mm in diameter for the remaining 0.4m of in length. The shatt comies the fluctuated at two ends. The first having a more of Jooky and e.ss mm redivis of gyrother located at the other end. Determine the Location of the nade and the notweal frequency of free located intropion of the system. The moduli of hisiding of shaft meterial may be taken as somether.

FTO F: The flywheet of an ensite driving a dynamo has man of 2000 by and has a redivin of gyrahion of 2000. The shaft at the flywheet end has an effective length of 25cm and is 5cm diameter. The armative mass is 225 by and has a radius of gyrahion of 25.5 cm. The dynamo Shaft has a diameter of 4.375 cm and an estimatent length of 20 cm. Negleching the inertha of the shaft and coupling, calculate the frequency of the shaft and coupling, calculate the frequency of the normal vibration and position of node the modulus of ois idily for the Shaft material in 80 G m/m.

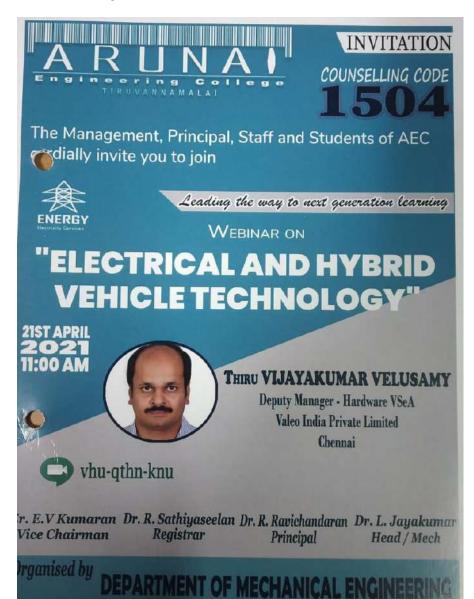
Fro G1:  $le = l_1 + (\frac{d_1}{d_1})^4 + l_3(\frac{d_1}{d_1})^4 = 0.64 + \frac{3.95 m^3}{d_1^4}$   $l_1 = n_4 k_0^2 = 1.50 l_3 m^3$   $I_D = m_2 l_3 = 567 k_3 m^4$   $l_p = 0.3714 l_0, l_A = 0.52 m, le = l_A + l_0, d = 95.6 mm$  $J = 0.614 \times 10^6 m^4, f_0 = f_{AA} = f_{BD} = 3.64 6 d g,$ 

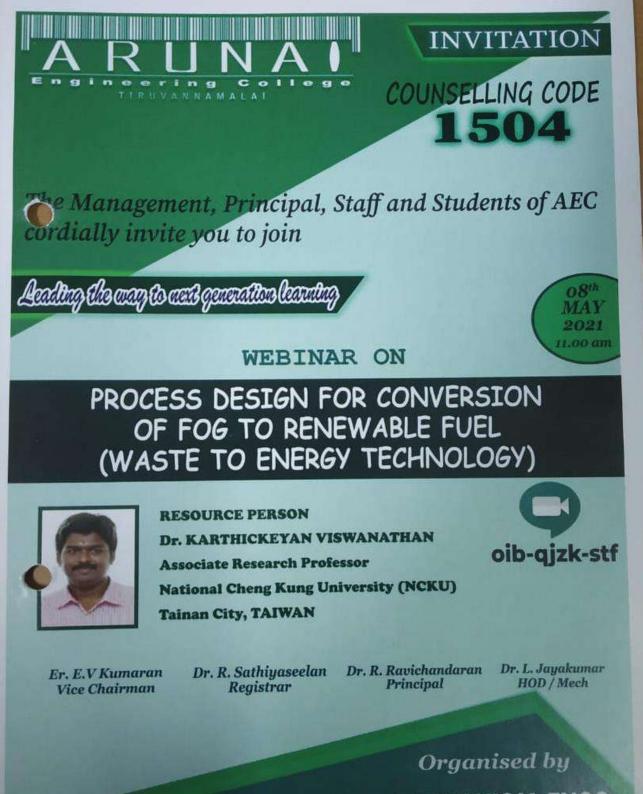
|        | UNIT – II BALANCING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |   |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|
|        | A rotating shaft carries Courses before the state of the |         |   |
| BRO GI | revolve in planes 8 cm, 16 cm, and 28 cm respectively measured from the first mass and are angularly located at 60 <sup>6</sup> , 135 <sup>6</sup> , and 270 <sup>6</sup> respectively measured<br>C.W from the first mass. The shaft is dynamically balanced by two masses, both located at 5 cm radii and revolving in planes midway between those of 3 <sup>cd</sup> and 4 <sup>th</sup> masses. Determine graphically or otherwise the magnitudes of masses and their respectively angular<br>position.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |   |
| BRO HI | A shart carries four masses in parallel planes A, B, C and D in this order along its length. The masses at B and C are 20 kg and 15 kg respectively, and<br>each has eccentricity of 60 mm. The masses at A and D have an eccentricity of 80 mm. The angle between the masses at B and C is 100° and that between<br>the masses at B and A is 190°, both being measured in same direction. The axial distance between the planes in A and B is 100° mm and that between<br>and C is 200 mm. If the shaft is in complete dynamic balance, determine 1, the magnitude of the masses A and B. is 100° mm and that between<br>and D, and 3. The aneutican positions of the masses at B and C is 200 mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         | - |
| BRO H2 | from the axis of rotation. The mass A, B, C, and D with are radially attached to it. The mass centers are 30 mm, 38 mm, 40 mm, and 35 mm respectively from the axis of rotation. The mass A, C, and D are 7.5 kg, 5 kg, and 4 kg respectively the axial distance between the planes of rotation of A and B is 400 mm and between B and C is 500 mm. The masses A and C are at right angles to each other find for a complete balance 1. Angle between the masses P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | int new |   |
| BRO II | A shall carries four rotating masses A, B, C, and D which are completely balanced. The masses B, C and D are 50 kg, 80 kg, and 70 kg respectively. The masses C and D make a angles of 90° and 195° respectively with mass B in the same sense. The masses A, B, C, and D are concentrated at radius 75 mm, and 90 mm respectively. The plane of rotation of masses B and C are 250 mm apart, determine: 1. The magnitude of mass A and in an and in a masses B and C are 250 mm apart, determine: 1. The magnitude of mass A and in the same sense.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ×       |   |
| BRO J1 | Four masses A, B, C, and D revolve at equal radii and equally spaced along a shaft. The mass B is 7 kg, and radii of C and D make angles of 90° and 240° respectively with the radius of B. Find the magnitude of masses A, C and D and angular position of A so that they system may be completely balanced.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |   |
| BRO J2 | A, B, C, and D are four masses carried by a rotating shaft at radii 100, 125, 200, and 150 mm respectively. The planes in which the masses revolve spaced<br>600 mm apart and the mass of B, C, and D are 10 kg, 5 kg, and 4 kg respectively. Find the required mass A, and the relative angular setting of four masses<br>so that the shaft shall be in complete balance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | :       | - |
| BRO R  | Optimize the application of formulae with necessary conditions in balancing of rotary parts of engine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         | - |
|        | BALANCING OF RECIPROCATING MASSES [ BRE ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1       |   |
| BRE AI | A single cylinder reciprocating engine has speed 240 rpm, stroke 300 mm, mass of reciprocating parts 50 kg, mass of revolving parts at 150 mm radius 37 kg. If two-third of the reciprocating parts and all the revolving parts are to be balanced, find 1. The balance mass required at a radius of 400 mm, 2. The residual un balanced force when erank has rotated 60° from TDC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | N       |   |

E

|        | A two-cylinder un coupled locomotive has inside cylinders 0.6 in apart. The radius of each crank is 300 mm and is at right angles. The revolving mass per cylinder is 250 kg and reciprocating mass per cylinder is 300 kg. the whole of the revolving time third of the                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |  |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|
| BRE B1 | balanced masses are to be placed, in the planes of rotation of the driving wheels a radius of 0.8 m. The driving wheels are in 2 m dia and 1.5 m apart. If the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |  |
| BRE CI | wheel center lines are 1.6 m apart. The reciprocating mass per cylinder is 300 kg. The dominiong. The distance between center lines is 650 mm, the exceed 45 kN at 100 km/hr, determine: 1. The fraction of the reciprocating masses to be balanced, 2. The variation in tractive effort, 3. Maximum swaying couple.                                                                                                                                                                                                                                                                                                                                                                                                                 | ( |  |
| BRE DI | the wheels = 1500 mm, distance between the cylinder conterve rotating mass per cylinder = 300 kg, reciprocating mass per cylinder = 330 kg, distance between the cylinder conter = 600 mm, diameter of driving wheels = 1800 mm, crank radius = 325 mm, radius of center of balance of mass = 650 mm, locomotive speed = 60 km/hr, angle between the cylinder cranks = 90°, dead load on each wheel = 40 kN. Determine: 1. Balancing mass required in the planes of driving wheels if whole of the revolving and two-chird of the reciprocating mass are to be balanced, 2. The swaying couple, 3. Variation in tractive force, 4. The maximum and minimum pressure on the rails, 5. The maximum speed of locomotive without lifting |   |  |
| BRE D2 | The following particulars relate to an un coupled locomotive: revolving mass per cylinder = 300 kg, reciprocating mass per cylinder = 450 kg, length of each crank = 350 mm, distance between wheels = 1.6 m, and distance between cylinder center = 1.9 m, diameter of driving wheels = 2 m, radius of balancing mass = $0.8$ m, angle between the cranks = $90^{\circ}$ . If whole of the revolving and two-third of reciprocating masses are to be balanced determine: 1. and 3. The swaving couple.                                                                                                                                                                                                                              |   |  |
| BRE R  | Optimize the application of formulae with necessary conditions in balancing of reciprocating of engine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | I |  |
|        | UNI - II IMPORTANT TWO MARK QUESTIONS [ ANNA UNIVERSITY ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | - |  |
|        | 1. What is mean by balancing of rotating masses.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |  |

Webinar Arranged





DEPARTMENT OF MECHANICAL ENGG.







## FEEDBACK ACTION TAKEN REPORT

# ACADEMIC YEAR

## 2019 - 2020



#### Department of Biotechnology

Date:4/2/2020

| Feedback<br>Collected<br>from | Number of<br>responses | Suggestions                                                                                                                              | Action taken                                                                                                                                                   | Evidence                                                                                                                          |
|-------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Faculty                       | 6                      | Encourage to attend the FDP in<br>esteemed institution                                                                                   | Based on the excellence of<br>program. Management<br>encouraged faculty members<br>to participate in FDP<br>programs                                           | Faculties were attended skill<br>development and FDP<br>programs                                                                  |
| Student                       | 91                     | Encourage students to conduct<br>new research                                                                                            | Mentor should encourage<br>their mentees to submit<br>TNSCST student project<br>scheme proposal                                                                | Students received TNSCST<br>SPS scheme grant                                                                                      |
| Alumni                        | 23                     | 1.Placement training and<br>practices should be provided<br>2. Arrange some recent trends in<br>biotechnology for improving<br>knowledge | <ol> <li>Additional coaching class<br/>and practices conducted by<br/>Training and placement cell</li> <li>Lecture series arranged for<br/>students</li> </ol> | 1.TAP circular attached<br>2. Popular lecture series was<br>arranged on 6 <sup>th</sup> and 7 th feb<br>2020 funded by DBT, India |
| Employers                     | -                      | -                                                                                                                                        | -                                                                                                                                                              | -                                                                                                                                 |

Prepared

n kom HOD-BT

Principal Principal

Arunai Engineering College Tiruvannamalai - 606 603



#### **Department of Biotechnology**





#### **Department of Biotechnology**

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|                | RINIVASAN MAL MARKARA                                                                                                    |                                                                                                                                                                        |
| L: No.1        | NSCS1/SPS/AR/2019-2020                                                                                                   | 18 03 8585                                                                                                                                                             |
|                | nceal<br>Engineering College<br>Innamalai - 606 603                                                                      |                                                                                                                                                                        |
| SeriMad        | tam.                                                                                                                     |                                                                                                                                                                        |
| 4              | Sub TNSCST – Student Project<br>intimation-grant release- reg.                                                           | Scheme - 2019-2020 - approva                                                                                                                                           |
| Council        | With respect to the above scheme, the<br>is enclosed along with terms and con<br>nd conditions such as submission of the | e list of projects approved by the State<br>willions. You are requested to adhere to<br>XC and Seminar Paper in Time                                                   |
| to the co      | erewith enclosed the cheque for the<br>incerned students through the guides                                              | approved grant and disburse the grant<br>at the earliest                                                                                                               |
| Ki<br>(ref.7&C | indly send the utilisation certificate<br>no.5&6) on completion of the project                                           | (format enclosed) and seminar paper                                                                                                                                    |
| 77             | anking you,                                                                                                              | Yours faithfully                                                                                                                                                       |
|                |                                                                                                                          | Member Secretary                                                                                                                                                       |
| DIF            | erms & Conditions (T&C)<br>ormat of Utilisation Certificate (UC)<br>heque for Rs.15000/ No: 852870                       | dt 18 03 2020                                                                                                                                                          |
|                |                                                                                                                          |                                                                                                                                                                        |

| 2                                                                                                                |                                                                                                             |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| The frincipal<br>Armai Engineering College<br>Thiruwannamalin - 606 603                                          | <ul> <li>The Principal</li> <li>Arumi Englaseering College</li> <li>Truvamaniai - 606 603</li> </ul>        |
| 111<br>111                                                                                                       | MS-024 15                                                                                                   |
| M Sabilia                                                                                                        | R.C. Pavilies<br>A. Priyadharshini                                                                          |
| Smort Panning                                                                                                    | Insilition evaluation of antioancer<br>ding from natural products                                           |
| Dr. V. Sauvanan<br>Associate Professor<br>Dept. of EEE.<br>Aruma Engineering College<br>Thirryanamalar - 606 603 | Dr. S. Palmi<br>Professor<br>Dept of Bintechnology<br>Arumi Engineering College<br>Trurentermistic, 606 603 |
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#### **Department of Biotechnology**

| FUTAPI                                                    |                                                                         | UNAI ENGINEER<br>IRUVANNAMALI<br>AINING AND PL<br><u>CIRCU</u>                       | AI - 606 603.<br>ACEMENT CELL                                                                    | E                                                                                                                                                                                  |
|-----------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           |                                                                         |                                                                                      |                                                                                                  | 12.07.2019                                                                                                                                                                         |
| students<br>Saturday                                      | OF CSE. IT. ECE. EEE.                                                   | EIE & MCA from 17<br>ning components for                                             | " July to 25" July 201<br>them are Aptitude &                                                    | college for the Final year<br>9 (8 days program except<br>Soft skills for 2 days and                                                                                               |
| Chemica<br>days pro                                       | Lengoineering the tra                                                   | aining program is so<br>ay & Sunday). The T                                          | cheduled from 17" Ju                                                                             | Aeronautical, Biotech &<br>ly to 24 <sup>m</sup> of July 2019 (6<br>or them are Aptitude and                                                                                       |
|                                                           | he training programs<br>of this program is 9.20                         |                                                                                      | Mis Smart Training                                                                               | Resources, Chennai. The                                                                                                                                                            |
| on or b<br>and 2 a<br>student<br>before<br>years y        | efore 18.07.2019. This<br>prears. The Departm<br>s name list for the tr | programme is com<br>sent Placement Coo<br>raining programme to<br>The theory classes | pulsory for the studen<br>rdinators are informe<br>o the placement cell (<br>are suspended durin | ent placement coordinator<br>its with nil arrear, 1 arrear<br>of to submit their eligible<br>hard and soft copy) on or<br>g the training for the final<br>e necessary arrangements |
|                                                           |                                                                         |                                                                                      |                                                                                                  | Jeron                                                                                                                                                                              |
| Copy is<br>Copy is<br>Prancip<br>AUTIO<br>ALL N<br>TAP FI | d<br>Ds<br>0                                                            | C <u>or what</u><br>Ogwyt                                                            | k.bor<br>the<br>of                                                                               | A secondary                                                                                                                                                                        |

Additional coaching class and practices conducted by Training and placement cell



#### **Department of Biotechnology**

National Conference on Bioprospecting and Biotechnology, 6-7, February 2020



POPULAR LECTURES IN BIOTECHNOLOGY, Sponsored by DBT, Government of India



#### **Department of Chemical Engineering**

| Feedback<br>Collected from | Number of<br>responses | Suggestions                                                             | Action taken                                                                                                           | Evidence                                                 |
|----------------------------|------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Faculty                    | 4                      | The practical exposure to the faculty members by undergoing conferences | Faculty members are motivated to participate in conferences                                                            | Evidence attached                                        |
| Students                   | 16                     | Extra coaching classes are necessary for difficult subjects.            | Additional sessions are conducted for challenging subjects.                                                            | Test conducted during<br>coaching class on<br>12/11/2019 |
| Alumni                     | 15                     | Placement training and preparation should be provided.                  | The Training and Placement Cell arranges additional coaching sessions and practice opportunities.                      | Evidence attached                                        |
| Employers                  | 7                      | Industrial academia gap must be<br>bridged                              | Experts from industries were invited<br>for seminars to interact with students to<br>bridge the industry academia gap. | Evidence attached                                        |



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HOD/CHEMICAL

Principal Arunai Engineering College Tiruvannamalai - 606 603

Faculty members are motivated to participate in conferences.



#### Test conducted during coaching class on 12/11/2019

|                    | ARUNAI E          | NGINEERIN | NG COLLEG  | E,TIRUVA   | NNAMALA   | AI 606603 |            |                     |
|--------------------|-------------------|-----------|------------|------------|-----------|-----------|------------|---------------------|
|                    | DI                | EPARTMEI  | NT OF CHE  | MICAL EN   | GINEERING | }         |            |                     |
|                    | A                 | CADEMIC   | YEAR 2019  | 9-20 ODD 9 | SEMESTER  | 1         |            |                     |
|                    |                   |           | Coaching C | lass test  |           |           |            |                     |
| Year/ Sem : IV/ VI | I                 |           |            |            |           |           | Date : 12/ | 11/2019             |
|                    | Sub code          | CH6701    | CH6702     | СН6703     | СН6704    | СН6705    | СН6009     | No.of Sut<br>Failed |
| Register No.       | Name              |           |            |            |           |           |            |                     |
| 510416203001       | Ajith kumar K     | 66        | 92         | 82         | 54        | 78        | 80         | 0                   |
| 510416203002       | Aravind M         | 56        | 60         | 50         | 52        | ab        | 52         | 0                   |
| 510416203003       | Arunkumar A       | 66        | 80         | 80         | 50        | 51        | 64         | 0                   |
| 510416203004       | Ashok A           | 76        | 98         | 96         | 62        | 80        | 94         | 0                   |
| 510416203005       | Bharathraj R      | 62        | 88         | 88 /       | 50        | 50        | 82         | 0                   |
| 510416203006       | Ezhil V           | 50        | 74         | 52         | ab        | 34        | 58         | 1                   |
| 510416203007       | Harishwaran R     | 62        | 72         | ab         | 50        | ab        | 14         | 1                   |
| 510416203009       | Muralidharan G    | 56        | 56         | 62         | 50        | 52        | 58         | 0                   |
| 510416203010       | Naveenkumar B     | 56        | 50         | 50         | 50        | ab        | 40         | 1                   |
| 510416203011       | Rajaganapathy V   | 68        | 70         | 78         | 56        | 74        | 80         | 0                   |
| 510416203012       | Ramanathan T      | 76        | 62         | ab         | 50        | 32        | 60         | 1                   |
| 510416203013       | Sangeethakumari G | 62        | 94         | 92         | 58        | 92        | 92         | 0                   |
| 510416203014       | Sathish C         | 56        | 64         | 50         | 50        | 22        | 50         | 1                   |
| 510416203015       | Shaaziya Nazneen  | 58        | 84         | 84         | 52        | 82        | 80         | 0                   |
| 510416203016       | Tamilselvan S     | 62        | 76         | 78         | 52        | 51        | 64         | 0                   |
| 510416203017       | Thameemul Ansari  | 58        | 70         | 62         | 54        | ab        | 62         | 0                   |

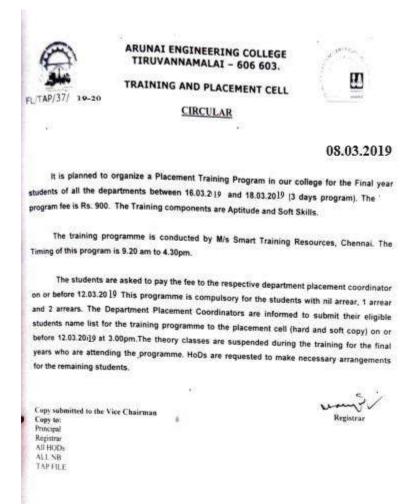
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The Training and Placement Cell arranges additional coaching sessions and practice opportunities.



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Experts from industries were invited for seminars to interact with students to bridge the industry academia gap.



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## Department of Civil Engineering

| Feedback  | Number          | 1                                                                                                  |                                                                                                                                                                                                                 | Date: 05.02.2020                                                                                                                        |
|-----------|-----------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Collected | of<br>responses | Suggestions                                                                                        | Action taken                                                                                                                                                                                                    | Evidence                                                                                                                                |
| Faculty   | 8               | Need practical sessions for<br>learning new technologies<br>used in construction field.            | Institution offered to attend International,<br>National and State level conferences, and<br>seminar and workshop which made to<br>learn new technologies.                                                      | Faculty undergone faculty<br>development Programme on<br>9/12/2019 to 13/12/2019 and<br>workshop on 17/09/2019.                         |
| Students  | 50              | Frequent workshop must be organized.                                                               | Workshops were conducted to learn about Design of Tall Building Structures.                                                                                                                                     | Two Days National Level<br>Workshop on Tall Building<br>Design were conducted on 11 <sup>th</sup><br>& 12 <sup>th</sup> September 2019. |
| Alumni    | 24              | Emphasis can be given on industry related curriculum                                               | Students are encouraged to go for in-plant trainings during the summer and winter vacations.                                                                                                                    | Students undergone In-Plant<br>training during the summer<br>vacations from 30/07/2019 to<br>09/08/2019                                 |
| Employers | 7               | Suggested to provide<br>Hands on Training on<br>latest technologies used in<br>construction field. | Hands on training were arranged by the<br>departments in collaboration with reputed<br>organization to improve the skills of the<br>students. So that can get better placement<br>offers based on their skills. | Hands On Training on Total<br>Station & GPS were organized<br>on 8/07/2019 to 12/07/2019.                                               |

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flattraval HOD/CIVIL

Principal

Arunai Engineering College Tiruvannamalai - 606 603

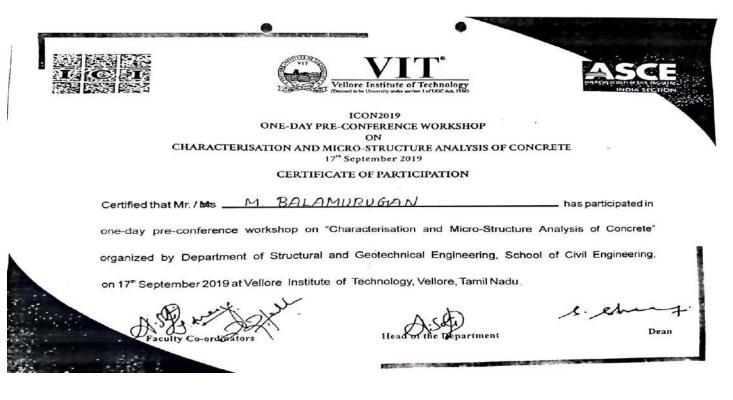


1. Faculty undergone faculty development Programme on 9/12/2019 to 13/12/2019 and workshop on 17/09/2019.

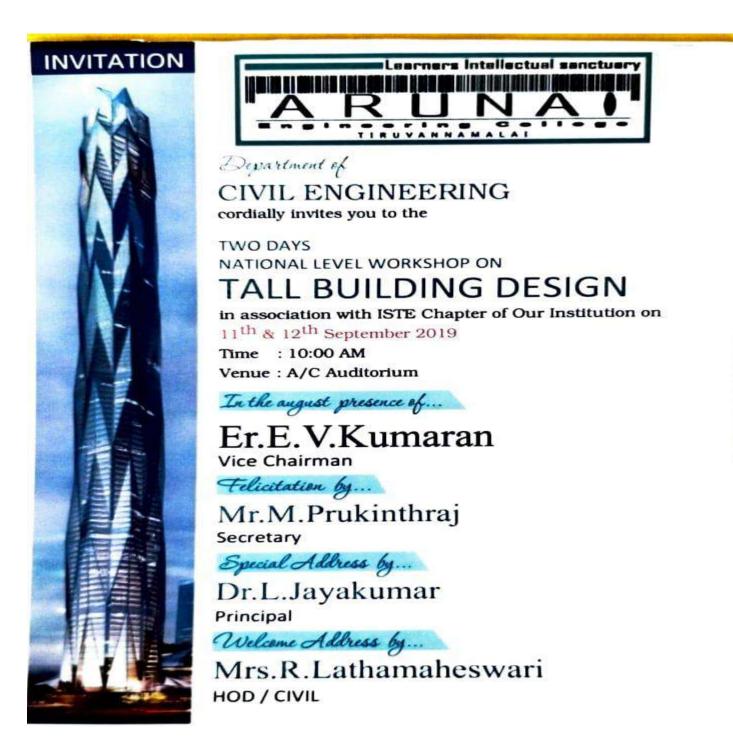
Five Day Short Term Programme On EN8592- WASTEWATER ENGINEERING

ANNA UNIVERSITY Chennai - 600025 ATTENDANCE CERTIFICATE This is to certify that My. R. KAREBANAN, ASSISTANT REPRESER. has attended a "Five-day Short-Term Training Programme" on "EN8592 Wastewater Engineering" conducted by the Department of Civil Engineering at College of Engineering Guindy, Anna University from 09/12/2019 to 13/12/2019. -0 4.8% a senetis din

One Day Pre-Conference Workshop On CHARACTERISATION & MICROSTRUCTURE ANALYSIS OF CONCRETE



2. Two Days National Level Workshop on Tall Building Design were conducted on 11<sup>th</sup> & 12<sup>th</sup> September 2019.



3. Students undergone In-Plant training during the summer vacations from 30/07/2021 to 09/08/2021.



Date: 10.08.2019

This is to certify that **KRISHNAN K** (**510418103006**), student of Arunai Engineering College, Thiruvannamalai has successfully completed a summer internship in the field of construction site from 30.07.2019 to 09.08.2019 under our guidance. During the period of his internship program with us, he had been exposed to different process and was found diligent, hardworking and inquisitive.

We wish him every success in his life and career.

For MANDIA FAMILY BUILDER & DEVELOPER PVT. LTD.

FOUNDER & CHANTERING

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welcometonfbd@nfbdgroup.com
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4. Hands on Training on Total Station & GPS were organized on 8/07/2019 to 12/07/2019.



## DEPARTMENT OF CIVIL ENGINEERING

cordially invites you to the Inauguration of

On 8th July 2019,10:00AM @ AC Auditorium

Hands on Training on Total Station & GPS

LADDER SURVEY INSTITUTE OF TECHNOLOGY

IN THE PRESENCE OF Er.E.V.KUMARAN M.E., VICE CHAIRMAN

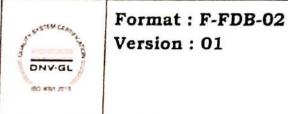
FELICITATION BY Mr.M.PRUKINTHRAJ SECRETARY

Dr.L.JAYAKUMAR PRINCIPAL

WELCOME ADDRESS BY Mrs.R.LATHAMAHESWARI HOD/CIVIL



QUALITY PROCESS DESCRIPTION ACTION TAKEN ON FEEDBACK ANALYSIS Standard: ISO 9001:2015



Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2019 - 20

### Department of Computer Science and Engineering 4.3.20

| Feedback<br>Collected from | Number<br>responses | of | Suggestions                                                           | Action taken                                                                  | Evidence                                                                                                    |
|----------------------------|---------------------|----|-----------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Faculty                    | 10                  |    | Internet Facility required in the staffroom system                    | Facility to connect to internet through mobile hotspot is enabled             | System that can connect<br>through mobile hotspot<br>provided in the staffroom                              |
| Students                   | 120                 |    | Programmes to improve the students technical skills must be increased | Symposium and seminars were<br>conducted with more practical<br>demonstration | National level technical<br>symposium "POINTERS<br>2K19" and Expo<br>"INNOVISTA" conducted on<br>26.09.2019 |
| Alumni                     | 10                  |    | Enhance more technical training programmes                            | Department conducted various<br>training programmes for the<br>students       | Technical Fest conducted on<br>various topics "Smart<br>Mapping" and "Ethical<br>Hacking" on 261.2020       |
| Employers                  | -                   |    | -                                                                     | _                                                                             | _                                                                                                           |
| Prepared By                |                     |    | Princi<br>Arunal Enginee<br>Tiruvannamal                              |                                                                               | HOD-CSE                                                                                                     |









### TIRUVANNAMALAI – 606 603

#### **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2019-20

| Feedback<br>Collected from | Number of<br>responses | Suggestions                                                                                                                              | Action taken                                                                                                                               | Evidence |
|----------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | 7                      | In prestigious institutions, staff<br>employees may be permitted to<br>participate in extra workshop/FDP<br>courses during the semester. | Based on the excellence of the<br>program, management encouraged staff<br>employees to participate in FDP<br>programs during the semester. |          |
| Students                   | 50                     | Special classes are required for slow learners.                                                                                          | Arranged special class for the problematic subjects.                                                                                       | ATTACHED |
| Alumni                     | 4                      | It is important to promote student<br>in higher studies to learn new<br>technologies.                                                    | Students joined higher studies.                                                                                                            |          |
| Employers                  | 2                      | Suggestion given to encourage the students to become entrepreneur.                                                                       | Arranged workshop through<br>Entrepreneurship Development Cell to<br>motivate the students to become<br>entrepreneur.                      |          |

**Prepared By** 

Dr. 8 Préfessor & Head Dept. of Electronics and Communication Engo. Arunal #ngineering College, Tiruvennemelai-606 603.

PRINCIPAL

Arunai Engineering College Tiruvannamalai - 606 603





TIRUVANNAMALAI – 606 603

Workshops/FDP course attended by faculty:

|                                                | CHASE TECHNOLOGIES         |
|------------------------------------------------|----------------------------|
| Prof.Dr.N.R.Sh<br>R&D-Manager<br>Chase Technol |                            |
| TC                                             | WHOM IT MAY CONCERN        |
| This is to certify th                          | A Elangovan                |
| of                                             | ARUNAI ENGINEERING COLLEGE |
|                                                |                            |
| Prof. Dr. N. R. Shank<br>Manager-R&D Win       |                            |
| Prof.Dr.N.R.Shank                              |                            |
| Prof. Dr. N. R. Shank<br>Manager-R&D Win       | ng                         |



## Vimala College (Autonomous), Thrissur CERTIFICATE

This is to certify that

### Mrs.K.G.Sathiya

has successfully completed One Week Online Faculty Enrichment Workshop on, "TECHNOLOGY ASSISTED TEACHING LEARNING" with (e-certification)

from 18th May 2020 to 24th May 2020 organized by IQAC, Vimala College

(Autonomous), Thrissur.

Ms Smitha P.S Course Coordinator

Dr Minimol K Jose IQAC Coordinator

Dr Sr Beena Jose Principal



TIRUVANNAMALAI – 606 603



#### **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

#### Special class has been arranged for the slow learners:

|                       | Acade   | LASS SCHI | <u>019 - 2020</u> | (ODD Sen | iester) |       |
|-----------------------|---------|-----------|-------------------|----------|---------|-------|
| DATE&<br>DAY          | II YEAR |           | III YEAR          |          | IV YEAR |       |
| SETCION               | FN      | AN        | FN                | ĄN       | FN      | AN    |
| 23.11.19<br>Friday    | EC-I    | LPDE      | DSP               | CN       | EMIC    | ERTS  |
| 26.11.19<br>Saturday  | SS      | с         | DC                | BBI      | oc      | RF&ME |
| 27.11.19<br>Monday    | DE      | CS        | CN                | CAO      | ERTS    | CR    |
| 28.11.19<br>Tuesday   | LPDE    | EC-I      | BBI               | ME       | DIP     | EMIC  |
| 29.11.19<br>Vednesday | с       | SS        | CAO               | DSP      | CR      | oc    |
| 30.11.19<br>Thursday  | CS      | DE        | ME                | DC       | RF&ME   | DIP   |

|               | SPEC                                               | IAL CLASS ATTENDAN<br>mic Year 2019 – 2020 (OI | D Semester)                      |
|---------------|----------------------------------------------------|------------------------------------------------|----------------------------------|
| STAFF         | CT NAME:EC-1<br>NAME:Mr.L.GURU<br>TIME: 23.11.19 & | JRAJAN                                         | Vear/Sem: II/III<br>Unit: II/III |
| S.NO          | REG NO                                             | NAME                                           | SIGN                             |
| 1.            | 510418106001                                       | AJITHKUMAR S                                   | Ajithkamer                       |
| 2             | 510418106006                                       | ARUNACHALAM K                                  |                                  |
| 3             | 510418106010                                       | ELAKIYA M                                      | Elakiya M                        |
| 11            | 510418106021                                       | MAHAVISHNU M                                   | not                              |
| 4             |                                                    | NITHESHKUMAR R                                 | Mithy                            |
| 4             | 510418106025                                       |                                                |                                  |
|               | 510418106025<br>510418106029                       | POOJA                                          | pasjar.                          |
| 5             |                                                    | POOJA<br>PRASATH S                             | Posta-                           |
| 5             | 510418106029                                       | ( T. (T) (T) (T) (T)                           | Os de                            |
| 5 .<br>6<br>7 | 510418106029<br>510418106032                       | PRASATH S                                      | Os de                            |

Faculty Incharge

HOD/ECE

Faculty Advisor

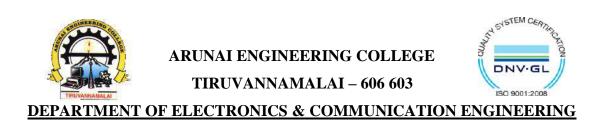
HOD/ECE



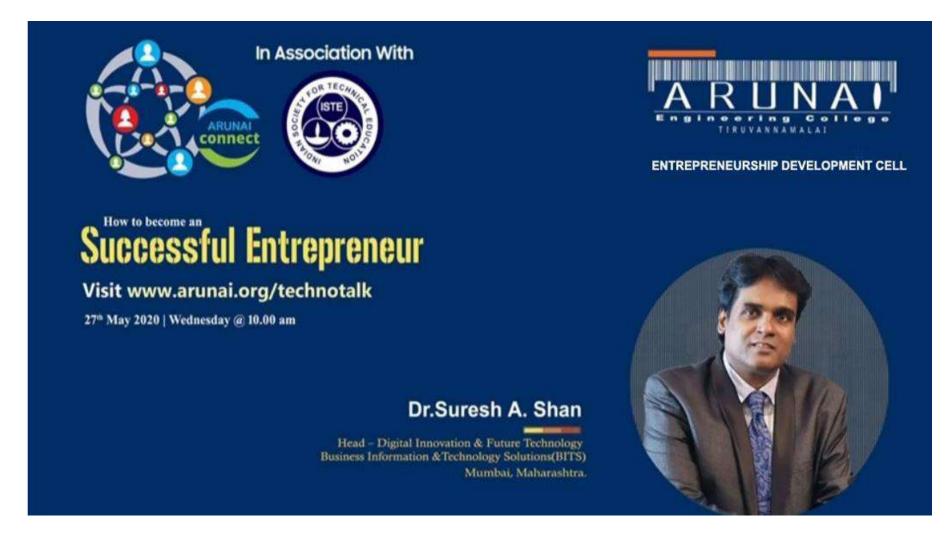
21VL001

Principa





Workshop Organized to motivate the students to become an entrepreneur:







#### Department of Mechanical Engineering

| Feedback<br>Collected from | Number of<br>responses | Suggestions                                                                                          | Action taken                                                                                                   | Evidence |
|----------------------------|------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------|
| Faculty 14                 |                        | 1.Need reference book in department library                                                          | 1.Reference and text book arranged in<br>Department Library                                                    |          |
| Students                   | 90                     | <ol> <li>Need Industrial visit</li> <li>Hands on raining and work<br/>shop program needed</li> </ol> | <ol> <li>Arranged Industrial Visit for the<br/>students.</li> <li>Deptrament work shop was arranged</li> </ol> |          |
| Alumni                     | 12                     | Invite to gust Talk to explore<br>real time work experience with<br>Future alumni's.                 | 1. Arranged gust lecture.                                                                                      | Attached |
| Employers                  | 4                      | Adoptable and new learners needed.                                                                   | 1. Advised to students to learn recent trends and current trends of industry                                   |          |

S. Re. F

Prepared By

Alfrydrom HOD-MECH

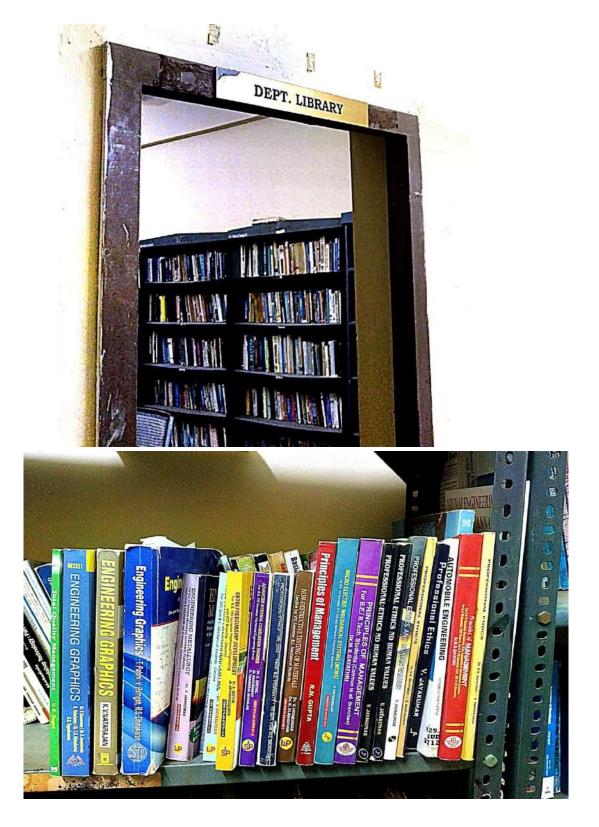
Principal Arunai Engineering College Tiruvannamalai - 606 603

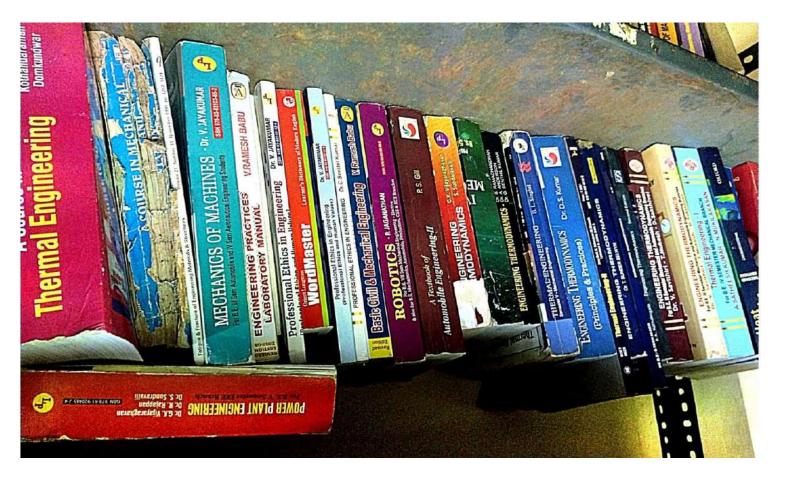


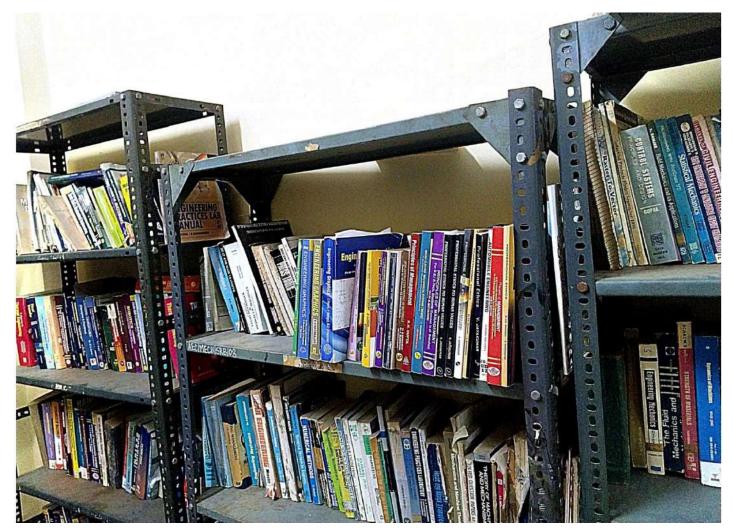
### ARUNAI ENGINEERING COLLEGE TIRUVANNAMALAI DEPARTMENT OF MECHANICAL ENGINEERING

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2019-20

Reference and text book arranged in Department Library







Arranged Industrial Visit for the students.



# ARUNAI ENGINEERING COLLEGE



Date: 05.03.2020

From The Head of the department

> Department of Mech. Engg. Arunai Engineering College, Tiruvannamalai – 606 603

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C

To

The Registrar, Arunai Engineering College, Tiruvannamalai – 606 603

Respected Sir,

Sub: Department of Mech. Engg - Industrial Visit / Tour- reg.

We have arranged an industrial visit /Educational Tour (Ooty) for B.E III year Mechanical Engineering students on 06.03.20 to 07.03.20(2days). The following Faculty members will be accompanying them. In this regard we kindly request your permission to proceed further processes. Amount to be collected per student is 2200. (Approximately 45 students)

- 1. Mr.S.Subahskaran
- 2. Mr.S.Jayakumar

Thanking you,



## **INDUSTRIAL VISIT CERTIFICATE**

This metify that students of Arunai Engineering college! Firremunal of at - Foundancedu

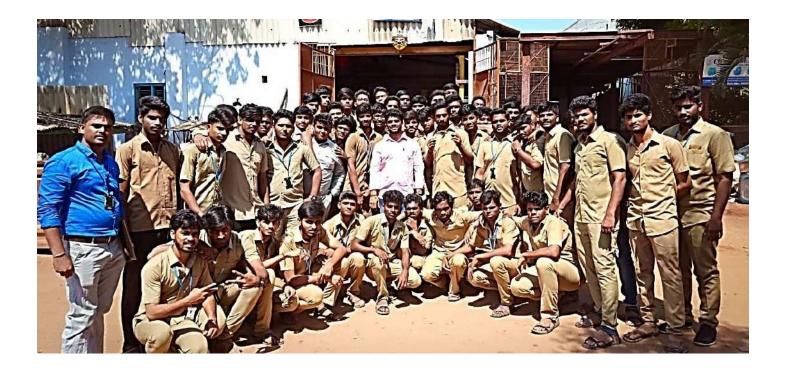
visited The Doddabetta Tea Factory and the Tea Museum on 12 0, 90 p They were given first hand information of the entire tea history and processing. They participated in a guided factory tour in which the history of tea and the different stages of tea processing like withering, crushing, cutting / tearing / curling (CTC), shaping, fermentation, drying, cleaning and grading was explained to them. The students evinced keen interest in knowing all aspects about tea manufacture.

Place : Udhagamandalam Date : 12/03/202p

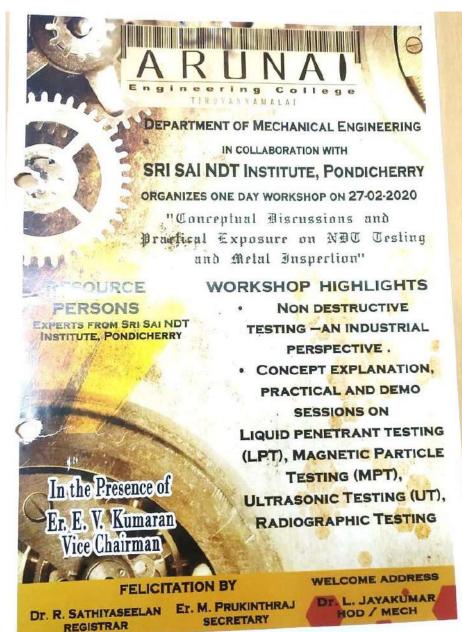
Authorised Signatory

Adm. Office : 16-B, Nankem Hospital Premises, Coonoor - 643 101, The Nilgiris. Phone : (0423) 2231679 Mobile : 94430 30520 / 94434 18000 www.teamuseum-india.com e-mail : tmuseumdtf@rediffmail.com

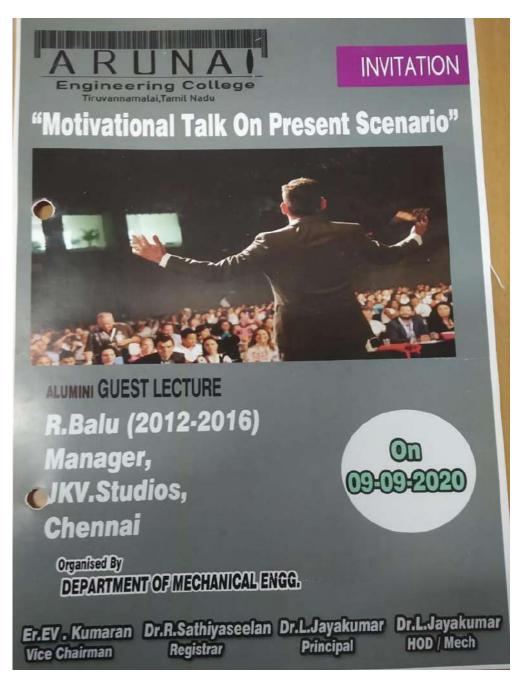
MEWOOD TE



Work Shop Conducted



Arranged gust lecture.





| Feedback<br>Collected from | Number<br>responses | of Suggestions                              | Action taken                                                   | Evidence |
|----------------------------|---------------------|---------------------------------------------|----------------------------------------------------------------|----------|
| Faculty                    | 15                  | Internet facility is required at staff room | Internet facility is provided at staff room                    |          |
| Students                   | 350                 | Computer facilities required for students   | Computer facilities were provided for<br>the usage of students | Attached |

Prepared By

PRINCIPAL

Principal Arunai Engineering College Tiruvannamalai - 600 999

HOD-HAS Department of HAS Arunal Engineering Collega,

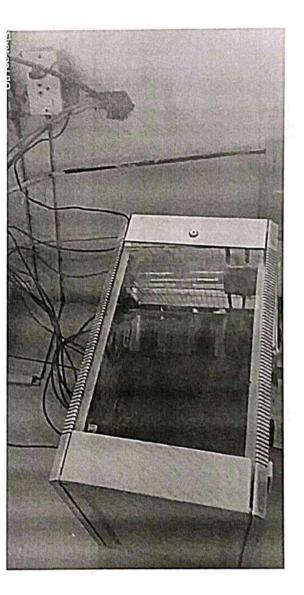
Thiruvannamalai - 3.

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# Internet facility at HAS block Staff room

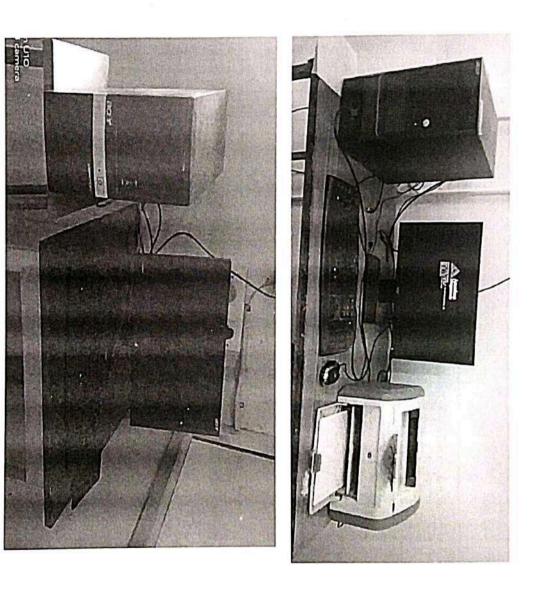








Computer set up at HAS block for student usage





# **Department of Information Technology**

Date:

| Feedback<br>Collected from | Number of responses | Suggestions                                                                                                                                                                                | Action taken                                                                                                                                                                        | Evidence |
|----------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | 8                   | <ol> <li>Internet facility is required at<br/>staff room.</li> <li>The practical exposure to the<br/>faculty exposure to the faculty<br/>members by undergoing<br/>Workshop/FDP</li> </ol> | <ol> <li>Internet facility provided at staff<br/>room</li> <li>Faculty members motivate to<br/>participate various skill development<br/>programs in reputed institution</li> </ol> |          |
| Students                   | 13                  | 1.Soft skill program were conduct with more practical demonstration                                                                                                                        | 1.Soft skill development Program on 14-08-2019                                                                                                                                      | Attached |
| Alumni                     | 75                  | Placement training and practices should be provided                                                                                                                                        | Additional coaching class and practices<br>conducted by Training and placement<br>cell                                                                                              |          |
| Employers                  | 2                   | 1.Enhance awareness about new technologies                                                                                                                                                 | 1. Workshops on IOT machine<br>Learning were conducted on 29-01-<br>2020 arranged for students to become<br>more subject matter experts.                                            | 3        |



HOD-IT

PRINCIPAL

Principal Arunai Engineering College Tiruvannamalai - 606 603





A R U N A I Engineering College Tiruvannamalai, TamilNadu

The Management, Principal, Staff and Students of Arunai Engineering College Cordially invites you to join the one day Workshop organised by

# with Machine Learning

venue: Arunai A/C Auditorium @ 10.00 am

# Er.E.V.Kumaran Vice Chairman



# Dr.Suresh A Shanmugan

2020

Head – Digital Innovation & Future Technolo Business Information &Technology Solution Mahindra & Mahindra Financial Services Sec Mumbai, Maharashtra.

# Algorithm for Safe Trajectory Vehicle Implementation of Node Reservation **Crossing an Intersection**

Ms.G.Saranya,

Mrs.B.Moohambigai ,Asst.Prof

Information Technology Arunai Engineering College, Tiruvannamalai

moohambigai@arunai.org itzsaranya92@gmail.com

an mobile phone or os are connect through an heterogeneous network by using and GPS to find geographical location. The different platform automatically and it send information to intersection manager relative to its source. Doppler effect are measure distance, sound to calculate and it take c Doppler estimation or Doppler frequency is change of frequency and wavelength of a wave for an observer moving congestion ,to avoid collision and waiting time to be reduce at intersection for safe driving without occur an accident ,no The main objective of this work are vehicle crossing an automatic vehicle are integrate with wireless sensor network. intelligent road transport system are used to between a mobile phone and intersection communication is implement to exchange the information intersection. Abstract\_: The intelligent road transport system for The infrastructure to infrastructure are manager. implement decision speed, The

*Keywords* : Autonomous vehicle; Self-driving car; Intelligent transportation system (ITS); Vehicle-toinfrastructure communication (V2I); Autonomous intersection management (AIM);Node reservation algorithm

# NTRODUCTION

applications, such as industrial process monitoring and more environmental distributed autonomous sensors to monitor physical or sensor and actuator networks networks are used applications such as battlefield surveillance; today such enabling control of sensor activity. The development of control, machine health monitoring, and so on wireless pass their data through the network to a main location. The as temperature, sound, pressure, etc. and to cooperatively Wireless sensor networks (WSN), sometimes called wireless modern sensor networks was motivated by networks in many industrial and consumer conditions, are (WSAN), are bi-directional, spatially military such also

The vehicle technology has grown rapidly in the past decade. Several systems have been installed into commercial vehicles to assist the driver to provide a more comfortable drive, including improving of the safety of the driver, passenger, and the pedestrian or cyclist. Re-

> cently, there has been a highly increased activity in the development of the autonomous vehicle research, which was initiated in 2005 by the first competition of autonomous vehicles. The Defense Advanced Research Projects Agency (DARPA) Grand Challenge was organized. In

3]. They proved the performance of driving in a real- traffic safety environment, autonomously universities or more recently by cessfully developed by many research groups either in the self-driving car or autonomous vehicle is now sucdrive itself and achieve the assigned cessfully developed a vehicle that has gression of the autonomous vehicle. Several teams suc-2007, the DARPA Urban Challenge with the private companies [1task. showed the the capability of As a result, ability proð

# **Autonomous Intersection management**

the intersection manager is delivered and vice versa. tool in which the requested message from vehicle to the received policy. The V2I communication is the index from the intersection manager and drive according accurately. Every vehicle will get the personal timing policy from the intersection manager strictly and the same way, an autonomous vehicle will follow the the incoming, vehicle when it can pass through the intersection, based on index, corresponding to the occupied space and tell a intersection manager is that it will prioritize the timing manager to intersection manager. The responsibility of the on the communication between vehicles and intersection Technically, autonomous intersection management relies requested message from vehicles. In 5

# **Crossing intersection problem**

That is, the method to manage several vehicles to use the intersection area at different points of time. For the sample scenario, there are two vehicles on the different streets. The red vehicle (no. 1.) drives on the West Street and plans to go to the North Street. On the other side, the green vehicle (no. 2.) drives on the East street





#### Department of Mechanical Engineering

| Feedback<br>Collected from | Number of<br>responses | Suggestions                                                                                          | Action taken                                                                                                   | Evidence |
|----------------------------|------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | 14                     | 1.Need reference book in department library                                                          | 1.Reference and text book arranged in<br>Department Library                                                    |          |
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| Alumni                     | 12                     | Invite to gust Talk to explore<br>real time work experience with<br>Future alumni's.                 | 1. Arranged gust lecture.                                                                                      | Attached |
| Employers                  | 4                      | Adoptable and new learners needed.                                                                   | 1. Advised to students to learn recent trends and current trends of industry                                   |          |

S. Re. F

Prepared By

Alfrydrom HOD-MECH

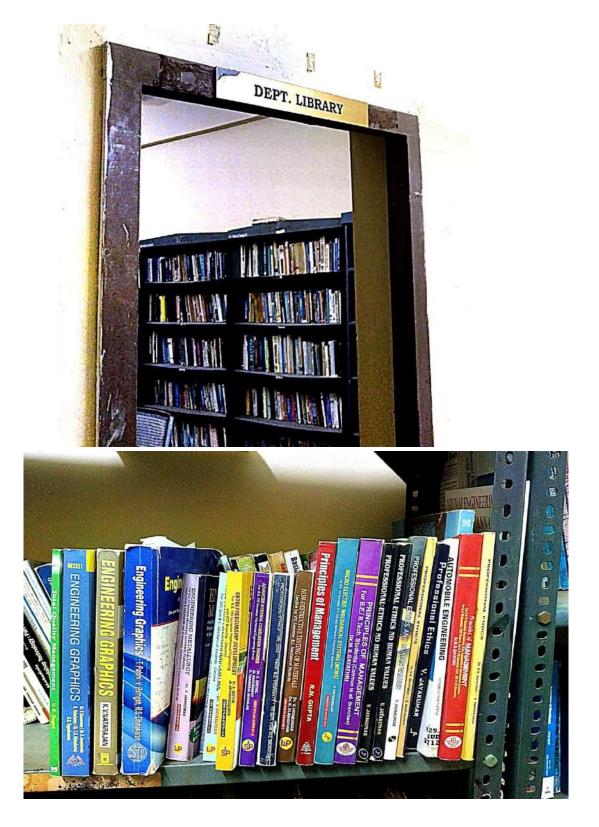
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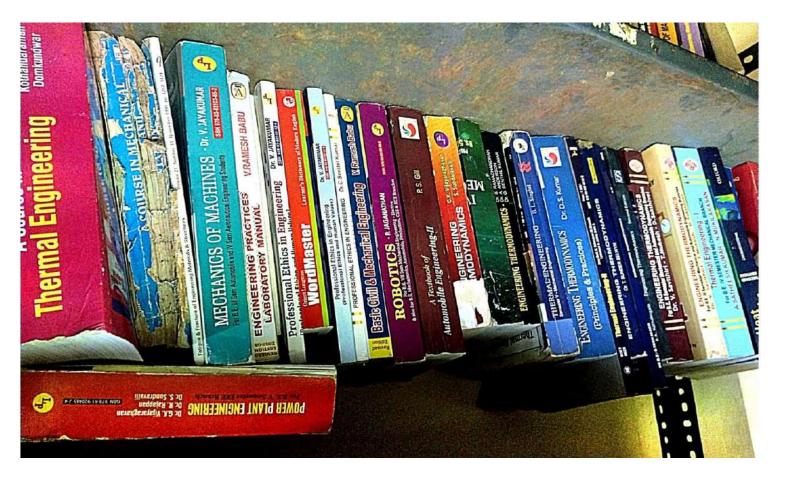


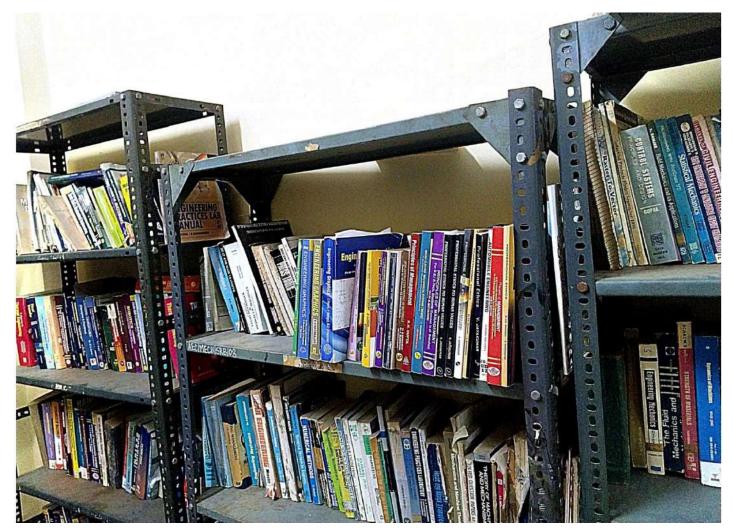
# ARUNAI ENGINEERING COLLEGE TIRUVANNAMALAI DEPARTMENT OF MECHANICAL ENGINEERING

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2019-20

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Arranged Industrial Visit for the students.



# ARUNAI ENGINEERING COLLEGE



Date: 05.03.2020

From The Head of the department

> Department of Mech. Engg. Arunai Engineering College, Tiruvannamalai – 606 603

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To

The Registrar, Arunai Engineering College, Tiruvannamalai – 606 603

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Sub: Department of Mech. Engg - Industrial Visit / Tour- reg.

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- 2. Mr.S.Jayakumar

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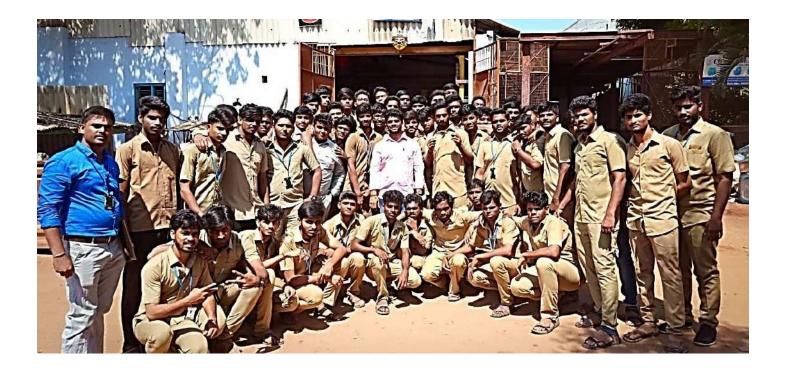
visited The Doddabetta Tea Factory and the Tea Museum on 12 0, 90 p They were given first hand information of the entire tea history and processing. They participated in a guided factory tour in which the history of tea and the different stages of tea processing like withering, crushing, cutting / tearing / curling (CTC), shaping, fermentation, drying, cleaning and grading was explained to them. The students evinced keen interest in knowing all aspects about tea manufacture.

Place : Udhagamandalam Date : 12/03/202p

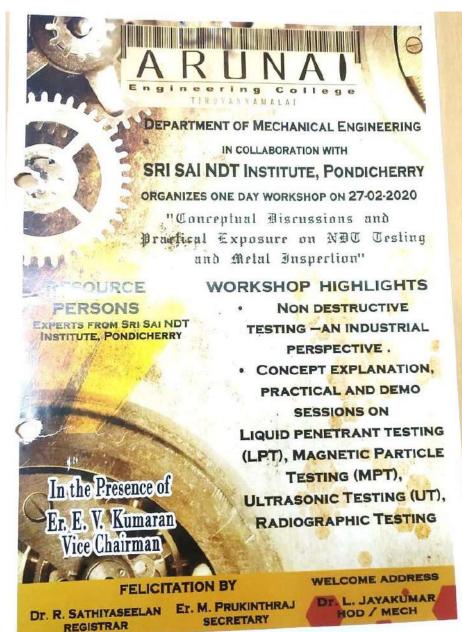
Authorised Signatory

Adm. Office : 16-B, Nankem Hospital Premises, Coonoor - 643 101, The Nilgiris. Phone : (0423) 2231679 Mobile : 94430 30520 / 94434 18000 www.teamuseum-india.com e-mail : tmuseumdtf@rediffmail.com

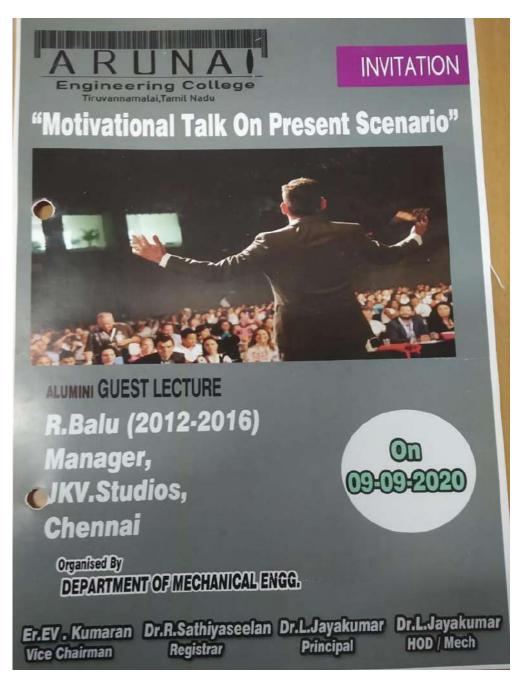
MEWOOD TE



Work Shop Conducted



Arranged gust lecture.









# FEEDBACK ACTION TAKEN REPORT

# ACADEMIC YEAR

# 2022 - 2023



#### Department of Biotechnology

#### Date: 05.08.2019

| Feedback<br>Collected<br>from | Number of<br>responses | Suggestions                                                    | Action taken                                                                              | Evidence                                                                                                                               |
|-------------------------------|------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Faculty                       | 7                      | Wi-Fi facility is required at staff room                       | Wi-Fi facility provided at<br>Biotechnology Block                                         | Wi-Fi Device installed at<br>biotechnology block                                                                                       |
| Students                      | 92                     | Need more coaching class for problem solving skills            | Special classes conducted for problematic subjects.                                       | Special classes conducted for<br>slow learners                                                                                         |
| Alumni                        | 27                     | More core company placement<br>should be arranged for students | Training and placement cell<br>already focused to arrange<br>core companies for placement | Zifo R&D core company<br>placemnt for department of<br>biotechnology students was<br>arranged by TAP Cell Aruna<br>Engineering College |
| Employers                     | 2                      | 15                                                             | -                                                                                         | -                                                                                                                                      |

Prepared By

own dam HOD-BT

Principal

Principal Arunai Engineering College Tiruvannamalai - 606 603



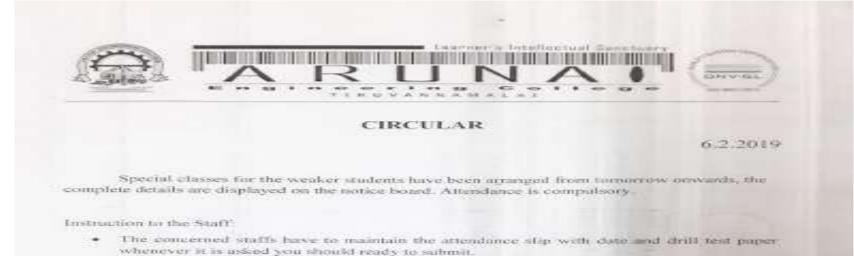
### **Department of Biotechnology**



Wi-Fi Device installed at biotechnology block



**Department of Biotechnology** 

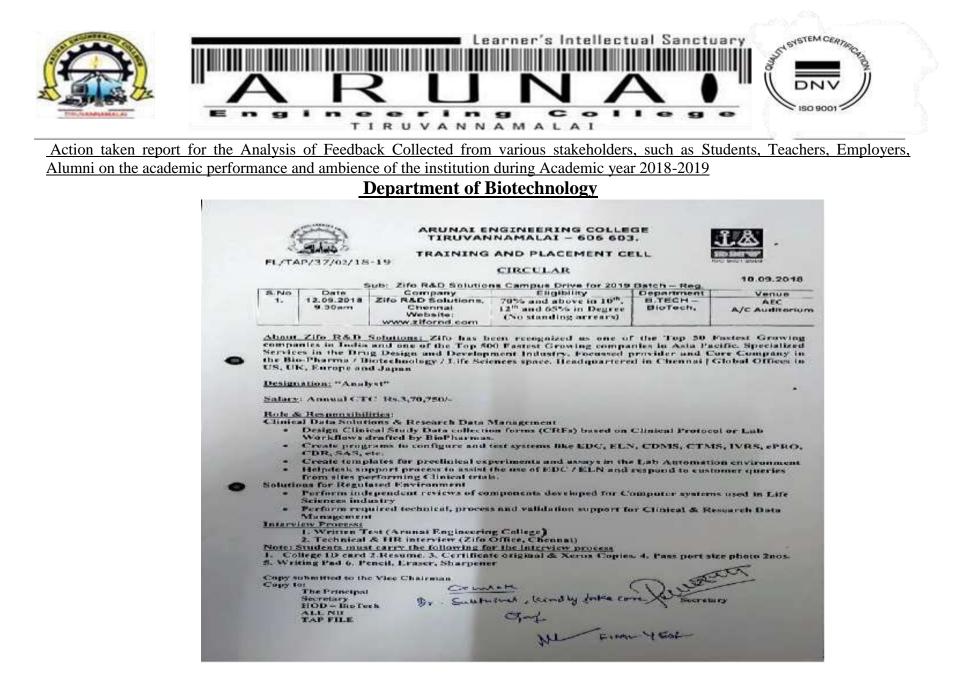


- At the same time attendance is maintained in the HOD room you should enter the absent register number without fail.
- The concerned staff has to report to HOD about the imposition given to the absent students before 11.00AM.
- I expect hundred percent co-operations in this, thank you.

BIOTECHNOLOGY HOD

To be read in: If year? III Year

Special classes conducted for slow learners



Zifo R&D core company placemnt for department of biotechnology students was arranged by TAP Cell Arunai Engineering College



## **Department of Chemical Engineering**

| Feedback<br>Collected from | Number of responses | Suggestions                                                                                                                                            | Action taken                                                                                                                                                                                             | Evidence                                                                               |
|----------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Faculty                    | 3                   | Faculty should be allowed to use new teaching methods like classrooms equipped with advanced technology and interactive teaching tools, including ICT. | Faculty members were provided with<br>the opportunity to utilize additional<br>innovative teaching methods and<br>practices.                                                                             | Faculty members have been introduced to innovative teaching techniques since 7/8/2018. |
| Students                   | 15                  | Additional coaching classes are required for challenging subjects.                                                                                     | Extra classes are held for difficult subjects.                                                                                                                                                           | Test conducted during<br>coaching class on<br>25/11/2018                               |
| Alumni                     | 17                  | Placement training and preparation should be offered.                                                                                                  | The Training and Placement Cell organizes extra coaching sessions and practices.                                                                                                                         | Evidence attached                                                                      |
| Employers                  | 3                   | Industrial academia gap must be<br>bridged                                                                                                             | <ul> <li>(a) Experts from industries were invited for seminars to interact with students to bridge the industry academia gap.</li> <li>(b) Students we permitted for internship in industries</li> </ul> | Evidence attached                                                                      |



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Principal Arunai Engineering College Tiruvannamalai - 606 603



# **Department of Chemical Engineering**

Faculty members were provided with the opportunity to utilize additional innovative teaching methods and practices.



Extra classes are held for difficult subjects.

|                     |                                                                          | ARUNAI ENGINEERING COLLEGE, TIRUVANNAMALAI 606603 |        |        |        |        |           |                    |  |  |  |
|---------------------|--------------------------------------------------------------------------|---------------------------------------------------|--------|--------|--------|--------|-----------|--------------------|--|--|--|
|                     | DEPARTMENT OF CHEMICAL ENGINEERING<br>ACADEMIC YEAR 2018-19 ODD SEMESTER |                                                   |        |        |        |        |           |                    |  |  |  |
|                     |                                                                          |                                                   |        |        |        |        |           |                    |  |  |  |
|                     |                                                                          | Coaching Class test                               |        |        |        |        |           |                    |  |  |  |
| Year/ Sem : II/ III |                                                                          |                                                   |        |        |        |        | Date : 25 |                    |  |  |  |
|                     | Sub code                                                                 | EE8352                                            | CY8291 | CH8302 | CH8351 | CH8301 | MA8391    | No.of Su<br>Failed |  |  |  |
| Register No.        | Name                                                                     |                                                   |        |        |        |        |           |                    |  |  |  |
| 510418203001        | AKILAN. N.                                                               | 70                                                | 80     | 50     | 50     | 44     | 54        | 1                  |  |  |  |
| 510418203002        | AKILAN. S.                                                               | 66                                                | 84     | 68     | 86     | 64     | 86        | 0                  |  |  |  |
| 510418203003        | ARAVIND KUMAR. A.                                                        | 55                                                | 70     | 76     | 38     | 54     | 60        | 1                  |  |  |  |
| 510418203004        | BRINDHA. B.                                                              | 75                                                | 62     | 56     | 80     | 66     | 76        | 0                  |  |  |  |
| 510418203005        | DEVASHANKAR. C. P.                                                       | 58                                                | 72     | 50     | 60     | 44     | 80        | 1                  |  |  |  |
| 510418203006        | DHAARUN. D.L.                                                            | 50                                                | 50     | 26     | 56     | 52     | 75        | 1                  |  |  |  |
| 510418203007        | JAYAHARAN. E. S. 📕 🛛 🛀                                                   | - 75                                              | 26     | 16     | 50     | 44     | 80        | 3                  |  |  |  |
| 510418203008        | KAVIN. S.                                                                | 75                                                | 58     | 30     | 66     | 50     | 75        | 1                  |  |  |  |
| 510418203009        | MANIKANDAN. P.                                                           | 54                                                | 78     | 50     | 66     | 84     | 80        | 0                  |  |  |  |
| 510418203010        | MANOJKUMAR. G.                                                           | 72                                                | 94     | 80     | 76     | 88     | 80        | 0                  |  |  |  |
| 510418203011        | MUSHRAF. K.                                                              | 75                                                | 70     | 50     | 54     | 50     | 52        | 0                  |  |  |  |
| 510418203012        | PRAGADEESHWARAN.H.                                                       | 50                                                | 75     | 50     | 36     | 56     | 26        | 2                  |  |  |  |
| 510418203013        | PUVANESHWAR SAMIKANNU. V.                                                | 62                                                | 85     | 94     | 40     | 92     | 90        | 1                  |  |  |  |
| 510418203014        | SOWMIYA. I                                                               | 54                                                | 98     | 76     | 82     | 92     | 80        | 0                  |  |  |  |
| 510418203015        | SRIKANTH. R.                                                             | 92                                                | 64     | 50     | 24     | 50     | 56        | 1                  |  |  |  |
| 510418203016        | SUDHARSAN, R.                                                            | 50                                                | 92     | 50     | 72     | 70     | 62        | 0                  |  |  |  |
| 510418203017        | VIVEK RAJ                                                                | 50                                                | 6      | 8      | 20     | 44     | 14        | 5                  |  |  |  |
| 510418203301        | VIJAY.S                                                                  | 12                                                | 10     | 8      | 40     | 36     | 24        | 6                  |  |  |  |

hoor

A. Valu

Prepared By

HOD/CHEMICAL

The Training and Placement Cell organizes extra coaching sessions and practices.

ARUNAI ENGINEERING COLLEGE TIRUVANNAMALAI - 606 603. . TRAINING AND PLACEMENT CELL FL/TAP/37/02/ 18-19 CIRCULAR 12.03.2018 It is planned to organize a Placement Training Program in our college for the Final year students of all the departments between 16.03.201S to 18.03.201S The program fee is Rs. 900. The Training components are Aptitude and Soft Skills. The training programme is conducted by M/s Smart Training Resources, Chennai. The Timing of this program is 9.20 am to 4.30pm. Registrar Copy submitted to the Vice Chairman Copy to: Principal Registrar All HODs ALL NB TAP FILE

A. Vanh

**HOD/CHEMICAL** 

Experts from industries were invited for seminars to interact with students to bridge the industry academia gap.

Guest Lecture On Innovations In Chemical Engineering And Acta Students Association Inaugration





Date: 13\* Dec 2019

#### CERTIFICATE

This is to certify that Mr. Allimuthu A Third Year, B.Tech - Chemical Engineering student of Arunai Engineering College at Tiruvannamalai has undergone in - plant Training in M/s. - Southern Petrochemical Industries Corporation Limited, Chennai.

Internship Training details are as furnished below:

| 1) Type of Training Imparted        | : IN - PLANT TRAINING           |
|-------------------------------------|---------------------------------|
| 2) Period of Institutional Training | : 02** Dec 2019 to 13" Dec 2019 |
| 3) Alloument of Department          | : DAP                           |
| 4) Conduct & Character              | : GOOD                          |
| 5) Performance during Training      | : GOOD                          |
| 6) Attendance during Training       | : REGULAR                       |

13 12 2019 T. Sarayanan Sr. Manager - Training & Development

Southern Petrochemical Industries Corporation Limited (Dik L11 10/Th1963PL006778) Factory SPIC Naga; Muthahpuran Post, Tubcorn 628 005 Taminadu, India Phone : +91 (0461) 2365401 | Fax +91 (461) 2365588 | Email: spiceopr@spic.co.m | www.spic.m



Place: SPIC-Chennai

A. Wede

HOD/CHEMICAL



# Department of Civil Engineering

Date:13.03.2019

| Feedback<br>Collected<br>from | Number<br>of<br>responses | Suggestions                                                                                                                                  | Action taken                                                                              | Evidence                                                                                                                           |
|-------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Faculty                       | 9                         | Faculty should be permitted to use new teaching techniques and strategies such as using ICT and so on.                                       | Faculties were offered to use more innovative teaching techniques and practices.          | Faculties are initiated to use new innovative teaching techniques from 05/09/2018.                                                 |
| Students                      | 85                        | Recent trends in research and industries must be shared among students and staff members.                                                    | National conference were planned to conduct related to Civil Engineering.                 | National Conference were conducted<br>on Recent trends in Civil Engineering<br>NCRTCE 2K19 on 05/02/2019.                          |
| Alumni                        | 38                        | To create awareness about<br>environment for the sustainable growth<br>by using non-degradable waste as infill<br>material in the structure. | Awareness program were organized<br>related to Environmental Science &<br>sustainability. | Awareness program initiatives based<br>on Environmental Science &<br>sustainability as World's<br>Environmental day on 05/06/2018. |
| Employers                     | 4                         | To fill up the curriculum gap between<br>Institution and industry.                                                                           | Students are encouraged to go for more industrial visits.                                 | Arranged Industrial Visit to Ramco<br>Cement Factory for the welfare of<br>students to gain field knowledge on<br>07/09/2018.      |



Hod/CIVIL

Arunai Engineering College Tiruvannamalai - 606 603



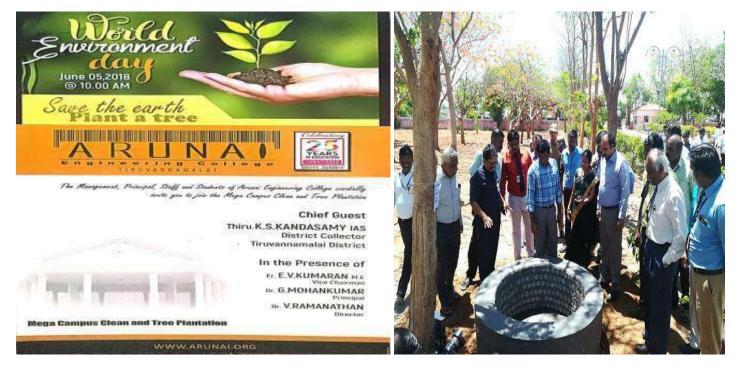
#### 1. Faculties are initiated on new innovative teaching techniques from 05/09/2018.



2. National Conference were conducted on Recent trends in Civil Engineering NCRTCE 2K19 on 05/02/2019.



3. Awareness program initiatives based on Environmental Science & sustainability as World's Environmental day on 05/06/2018.



This dustbin is made by using waste plastic bottles to create the pollution free environment.

4. Arranged Industrial Visit to Ramco Cement Factory for the welfare of students to gain field knowledge on 07/09/2018.

| DEPARTMENT OF CIVIL E                                      |                                                      |
|------------------------------------------------------------|------------------------------------------------------|
|                                                            | DATE: 03/09/2018                                     |
| From                                                       |                                                      |
| Head of the Department,                                    |                                                      |
| Department of Civil Engineering,                           |                                                      |
| Arunai Engineering College,                                |                                                      |
| Tiruvannamalai.                                            |                                                      |
| σ                                                          |                                                      |
| The Registrar,                                             |                                                      |
| Arunai Engineering College,                                |                                                      |
| Tiruvannamalai.                                            |                                                      |
| espected Sir,                                              |                                                      |
| Sub: Permission for Industrial Visit- Reg.                 |                                                      |
| We have planned to take II year & III year Civ             | il Engineering students (strength 58) for            |
| e Industrial Visit to Ramco Cement Factory located at Ariy | valur on 07 <sup>th</sup> September 2018. This visit |

the will have a value addition for the students in gaining field knowledge and the benefit of understanding the subject in depth. (Anna University Syllabus-CE 8404 & CE 6002- Concrete Technology) In this regard, we request your permission for Industrial Visit. Waiting for a positive reply from your side and hope you grant us permission soon.

Thanking you in anticipation,

und

Re

Yours faithfully,

Hatharal (Mrs R LATHAMAHESWARI)



### **ARUNAI ENGINEERING COLLEGE**

QUALITY PROCESS DESCRIPTION ACTION TAKEN ON FEEDBACK ANALYSIS Standard: ISO 9001:2015



Format : F-FDB-02 Version : 01

Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2018 – 19

# **Department of Computer Science and Engineering**

18.05.19

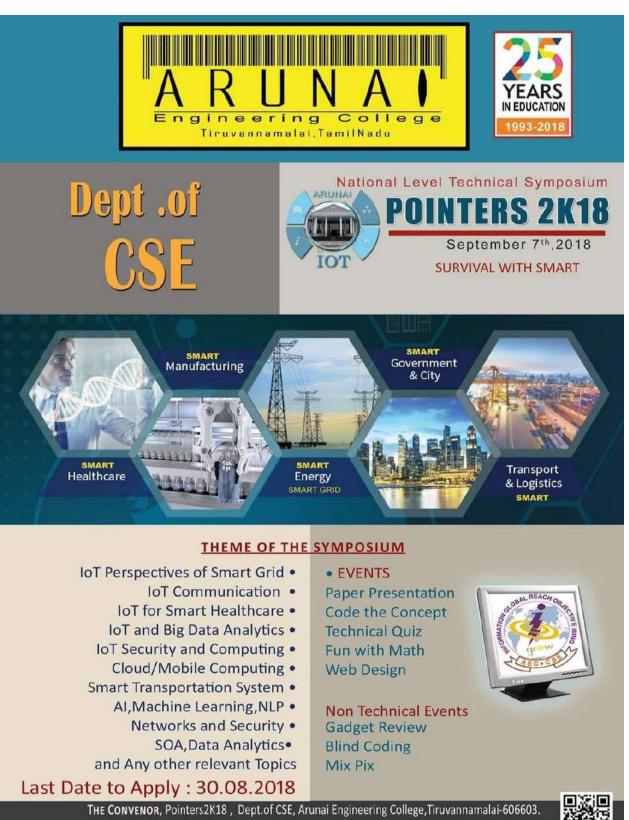
| Feedback<br>Collected from | Number<br>responses | of | Suggestions                                                                 | Action taken                                                                                                  | Evidence                                                                                    |
|----------------------------|---------------------|----|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Faculty                    | 10                  |    | Faculty must have practical exposure by attending FDP                       | Faculty members were encouraged to attend FDP                                                                 | Certificates attached                                                                       |
| Students                   | 120                 |    | Conduct co-curricular activities<br>for the students from the<br>department | In this academic year more events<br>were organized like symposium and<br>Ideathon                            | National level technical<br>symposium<br>"POINTERS 2K18"<br>conducted on<br>07.09.2018      |
| Alumni                     | 10                  |    | Give the aware on importance<br>of soft skills for the students             | We are organized various training<br>programmes to create awareness and<br>industry readiness to our students | Two Days Hands-on<br>Workshop "First step to<br>PYTHON" conducted<br>on 18.11 to 19.11.2019 |
| Employers                  | -                   |    | _                                                                           |                                                                                                               | -                                                                                           |

Prepared By

Principal Arunai Engineering College Tiruvannamalai - 606 603

HOD-CSE





THE CONVENOR, Pointers2K18, Dept.of CSE, Arunai Engineering College, Tiruvannamalai-606603 e-mail : pointers2k18@gmail.com,04175255101,7339090161,7373422522,7358933726 web:www.arunai.org/pointers/





ARUNAI ENGINEERING COLLEGE TIRUVANNAMALAI – 606 603



#### **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

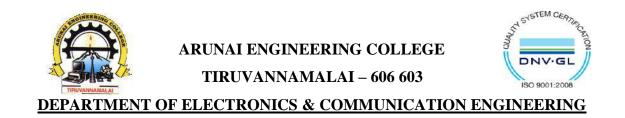
Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2018-19

| Feedback<br>Collected from | Number<br>responses | of Suggestions                                                                                                                               | Action taken                                                                                                                                         | Evidence |
|----------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | 5                   | To enhance the practical exposure<br>of faculty members by undergoing<br>industrial training/ workshops/<br>FDPs and need funding for these. | Faculty members are undergoing<br>various skill enhancement programme<br>in regular basis and management<br>supported by providing registration fee. |          |
| Students                   | 48                  | Requested to provide RO water<br>system with high water capacity<br>in the department block.                                                 | RO water system is provided as per the request.                                                                                                      | ATTACHED |
| Alumni                     | 2                   | Encourage the students to give<br>seminars so that they can improve<br>their presentation skills.                                            | Organized National level conference<br>for the students to become aware and<br>improve their presentation skill.                                     |          |
| Employers                  | 1                   | Student's entrepreneurial abilities should be fostered.                                                                                      | A career coaching program on how to become a responsible youth will be planned.                                                                      |          |

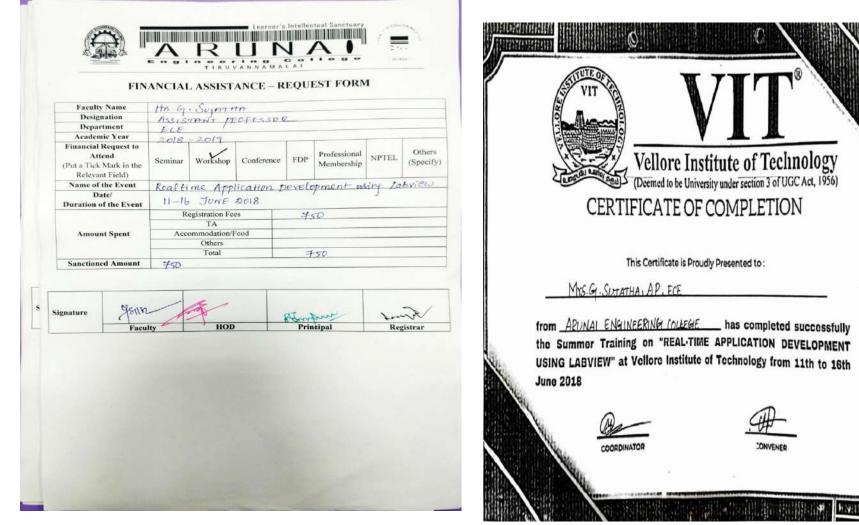
**Prepared By** 

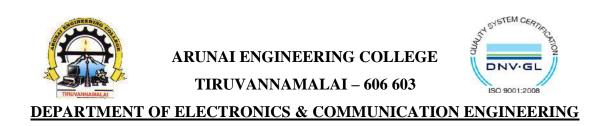
Dr. S. ELANGCEE.M.E. M.S. Professor & Head Dept. of Electronics and Communication Engs. Arunai #ngineering College, Tiruyennemelai-605 603.

PRINCIPAL Principal Arunai Engineering College Tiruvannamalai - 606 603



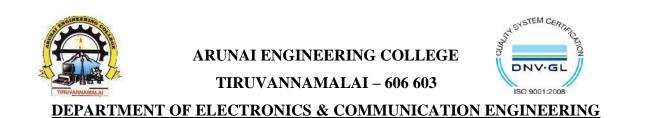
#### Workshops attended by faculty to enhance the practical exposure:





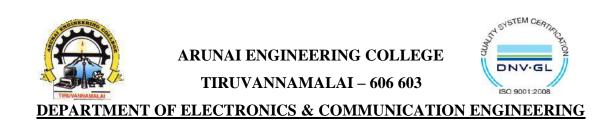
**RO** Water system in the Department:



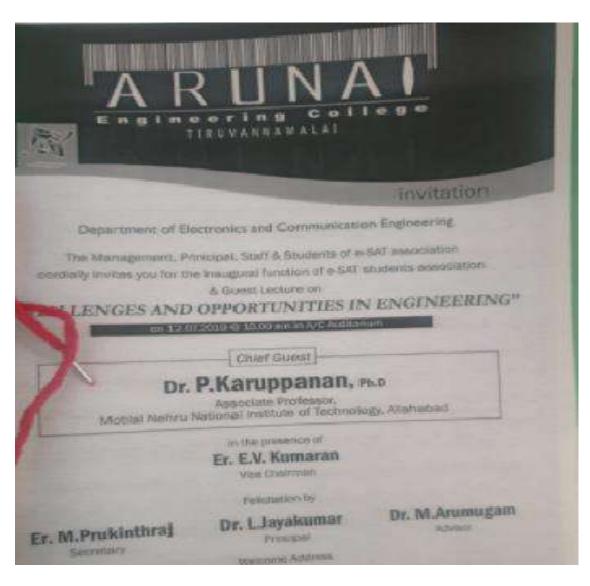


# National Level Conference organized by the department:

### Tiruvannamalai, Date: 28.12.18. From, Dr. S Elango, Head of the Department, Invitation Department of ECE. Arunai Engineering College. Tiruvannamalai. Department of Electronics and Communication Engineerin To. The Vice-Chairman, The Management, Principal, Staff & Students of e-SAT (Through Secretary) Arunai engineering College, association Cordially invites you for the National Conference on Tiruvannamalai. Emerging trends in Wireless Communication & Signal Processing on 15.02.19 @10.30 a.m in A/C Auditorium. Respected Sir, Sub: - Seeking permission for organizing Department Inaugural function and One day 1課 National Conference - Reg. ---- Chief Guest The Department of ECE had planned to organize inaugural function and One day Dr. U. Sabura Banu National conference on 15/02/2019(Friday). In this regard, we kindly request you to grant Founder & CEO, Intellectz (Tech for All), Chennai. permission to conduct the National Conference at Arunai Centre A/c Auditorium. Thanking You, In the Sugar Presence Er. E. V. Kumaran Yours frithfully, Vice Chairman (Dr. S. Elango) (HOD/ECE) Felicitation by Dr. N. Arumugam Mr. M. Prukinth Raj Advisor Secretary Welcome Address Dr. S. Elango HOD/ECE Vide of Thanks **Student Preside** www.arunai.org



**Program Organized to motivate the students:** 





Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2018-19 Department of Mechanical Engineering

| Feedback<br>Collected from | Number of<br>responses                                                                                                                                                                                                                                                                                            | Suggestions                                                                                                                                                            | Action taken                                                                                                                                                                                   | Evidence |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | 7                                                                                                                                                                                                                                                                                                                 | 1.Internet facility is required at<br>staff room<br>2.to enhance the practical<br>exposure of faculty members by<br>undergoing workshop/ FDP                           | 1.Internet facility provided at CAM<br>Lab/CAD Lab<br>2.Faculty members motivate to<br>participate various skill development<br>programs in reputed institution                                |          |
| Students                   | 120                                                                                                                                                                                                                                                                                                               | 1. Need more coaching class for<br>problem solving skills and<br>Identifying problem and formals.<br>2.Arrange guest lectures for<br>currents trends and opportunities | 1. Prepared study material for<br>problematic subjects.<br>2.Deptrament guest lecture was<br>arranged                                                                                          |          |
| Alumni                     | I.Placement         Training         Addition           communication         skill         conduct           l2         development         needed         cell.           2.         Alumni         Guest         Lecture         Sugges           improve         Gap between         industry         improve |                                                                                                                                                                        | Additional coaching class and practices<br>conducted by Training and placement<br>cell.<br>Suggests for reading practice to<br>improvise communication skill.<br>Alumni Guest Lecture Arranged | Attached |
| Employers                  | 4                                                                                                                                                                                                                                                                                                                 | Technical skill needed                                                                                                                                                 | <ol> <li>Several technical programs<br/>organized to improve technical skills.</li> <li>Workshops arranged for students to<br/>become more subject matter experts.</li> </ol>                  |          |

S. Re-F. Prepared By

Al Tryphon HOD-MECH

Al mphone Principal



Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2018-19

Internet facility Arranged to Staff Cabin.

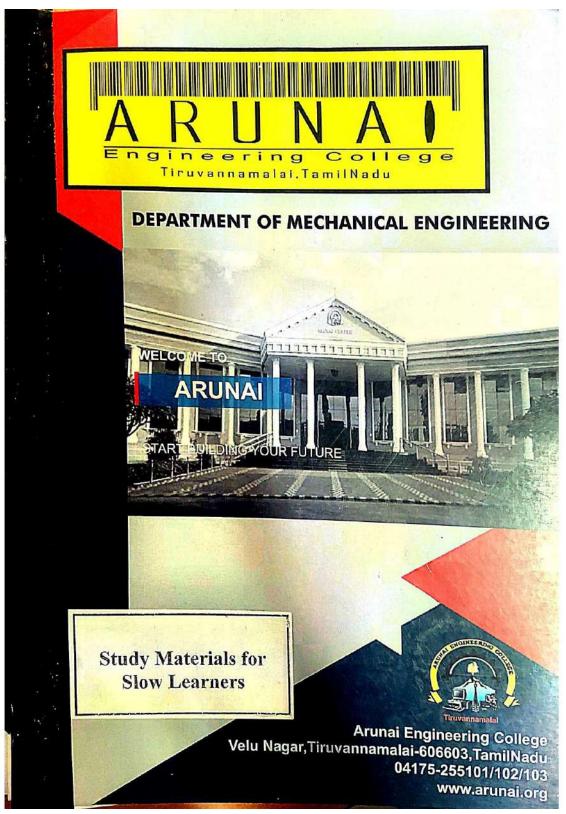






Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2018-19

Prepared Study Material and given to students.



|                                                                                                                                                                                                                                         | 10 Eler                                                                                                                                                                                                                                                                  | 10 Given:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| en dala'<br>$T_{H} = 873 K$<br>$T_{L} = 333 K$<br>$\eta_{HC} + \frac{T_{H} - T_{L}}{T_{H}}$                                                                                                                                             | $ \begin{array}{c} (\mathfrak{b})  \mathfrak{X}_{i} := & \overline{\mathfrak{b}/\mathfrak{b}} \\ & \left( \overline{\mathfrak{b}/\mathfrak{b}} + \frac{\mathfrak{b}}{\mathfrak{b}/\mathfrak{h}} \overline{\mathfrak{q}} \right), \\ \mathfrak{X}_{i} := &  \end{array} $ | $\begin{array}{l} T_{2} = (1)^{1/2} G_{1}^{1/2} = T_{1}^{1/2} G_{1}^{1/2} G_{$                            |
| ]u€=*/                                                                                                                                                                                                                                  | 子) <u>Given:</u><br>m=10 Kg Ti=673K<br>R=0.284 「5=248:58K<br>タ=1.4                                                                                                                                                                                                       | $\Delta S = mR \ln(\frac{P_2}{R_1}) + m c_{P_2} l_n (1_2/R_1)$ $\Delta S = \underline{\qquad}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| P= 120 KW/m <sup>2</sup><br>V, = 1-121m <sup>3</sup><br>P <sub>2</sub> = 1-350 KW/m <sup>2</sup><br>V <sub>2</sub> = 0+1427 m <sup>3</sup><br>n = 1-3                                                                                   | $W = \frac{m R(T_1 - T_2)}{3^{2} - 1}$ $W = \underline{\qquad}$                                                                                                                                                                                                          | 12) <u>Giron:</u><br>R=100 Kn/m <sup>2</sup><br>V <sub>1</sub> =1-293 m <sup>3</sup><br>V <sub>2</sub> =0-184 m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| $W = \frac{P_1 v_1 - P_2 v_2}{n-1}$ $W = \frac{P_1 v_1 - P_2 v_2}{n-1}$                                                                                                                                                                 | 8). <b>Fire</b> :-<br>Pi= 800 KN/m <sup>2</sup><br>P2=90 KN/m <sup>2</sup>                                                                                                                                                                                               | W=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| $\frac{\pi n!}{100 \text{ km}/\text{m}^3} = \frac{T_1 - 286 \text{ K}}{T_1 - 286 \text{ K}} = \frac{1}{100 \text{ km}} \frac{1}{\text{m}^3} = \frac{1}{1.25} = \frac{(B_1 - 1)^{-1}}{\pi} = \frac{(B_1 - 1)^{-1}}{\pi} = \frac{1}{\pi}$ | $ \begin{array}{c} v_1 = 0.15 \text{ m}^3\\ v_2 = 0.73 \text{ m}^3\\ v_3 = \frac{\log\left(\frac{P_1/P_2}{P_1}\right)}{\log\left(\frac{V_2/V_1}{P_1}\right)}\\ v_3 = \frac{\log\left(\frac{V_2/V_1}{P_2}\right)}{\log\left(\frac{V_2/V_1}{P_1}\right)}\\ \end{array} $   | $\begin{array}{c} 1.5 & G_{116en};\\ \hline m_{1}=10 kg \\ c_{1}= t_{1}\cdot 16 \cdot 7 \\ \hline m_{2}: x_{1}: k_{2}: 7 \\ \hline m_{3}: x_{1}: s_{2}: s_{3}: s_{3}: s_{3}: s_{3}: s_{4}: $ |
| Ta= 0000                                                                                                                                                                                                                                | 9) <u>Given</u><br>M=1.5 kg-<br>Cp= 0.99 Ti=293k                                                                                                                                                                                                                         | $T_{\mathcal{F}} = \underline{\qquad}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Given:-<br>m= 1<br>Cp = 1.005<br>Tp = 373K<br>Ti = 278K<br>15-mph(T2/Ti)                                                                                                                                                                | $\Delta H = mcp (T_2 = 160.5k)$ $\Delta H = mcp (T_2 - T_1)$ $\Delta H = \underline{\qquad}$                                                                                                                                                                             | (14) Given:<br>$Q_{2}=3000 \text{ W}$ $T_{41}=303 \text{ K}$<br>$T_{L}=263 \text{ K}$<br>$Q_{1}R=0sA_{1} \text{ K} T_{L}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Δs=                                                                                                                                                                                                                                     | 10) Given!                                                                                                                                                                                                                                                               | Re=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| $\begin{aligned} & \text{Ry:} & 3.59 \text{ KN/m}^2 \\ & P_{\text{b}} = 100 \text{ KN/m}^2 \\ & y = 0.622 \left( P_{\text{Fb}} - P_{\text{y}} \right) \end{aligned}$                                                                    | 'BPF = 0.4<br>td2 = 20<br>td1 = 1.4<br>To find : td3                                                                                                                                                                                                                     | 15) <u>Given:</u><br>m=1-6 kg<br>R= 0.2εT T <sub>1</sub> = 29.3 K<br>P <sub>1</sub> = 120 KN/m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| W=                                                                                                                                                                                                                                      | B.P.F = tda-tda<br>tda-tda                                                                                                                                                                                                                                               | $V_1 = mRT_1/R_1$<br>$V_1 =$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

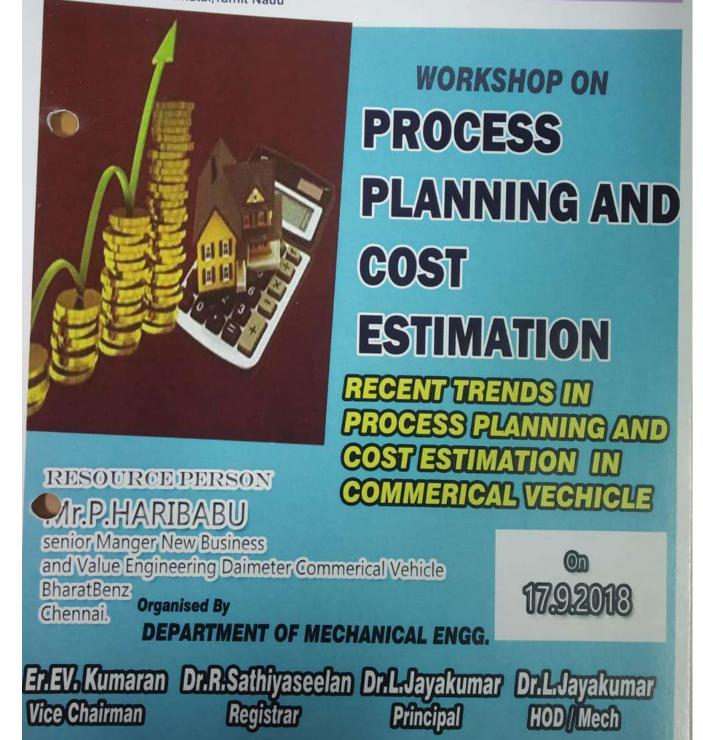
| REAC                                                                                                                     | GASES , THERMODYNAMIC RELATIONS                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| = 0 00                                                                                                                   | SASES, THEEMODYAAFIC RELATIONS<br>5 T.= 303 K P.= 100 Kpc P.= 6,12-12 Kpc<br>n=1-2                         |
| = 1 bar = 100 kpa<br>= 8 Lar = 800 kpa                                                                                   | $T_{2} = T_{1} \left( \frac{f_{n}}{r_{1}} \right)^{n-1} $                                                  |
| 1=295 K                                                                                                                  | T <sub>2</sub> = k                                                                                         |
| $\frac{n}{n-1} \stackrel{P_1 \vee_1}{\longrightarrow} \left[ \left( \frac{P_2}{P_1} \right)^{\frac{n-1}{n}} - 1 \right]$ | 6 tog 5 = 1 log (135)                                                                                      |
| N+1 L                                                                                                                    | X. =                                                                                                       |
| J = J and the                                                                                                            | 7. m=1.6 kg R=0.281 kJ/kgk Vi=121 m3<br>Va=0-14127 m3 Ev=0.718 K0/kgk Testark                              |
| = 0-16m L = 300mm                                                                                                        | T, = 243K T3 = 548.87K                                                                                     |
| = 100 Kpa T1 = 27 c                                                                                                      | $\Delta S = me \ln \left(\frac{V_{z}}{V_{i}}\right) + m(v \ln \left(\frac{T_{z}}{T_{i}}\right)$            |
| == 650 Kpa N= 120rpm                                                                                                     | AS = KJ/Agk                                                                                                |
| $pV^{3} = C$ , $v^{2} = 1.4$                                                                                             | 8. Pi=800 kpa P2 = 90 kpg                                                                                  |
| $V_1 = \frac{\pi}{4} \dot{D}^2 L$ (and Ce)                                                                               | $V_1 = 0.15 \text{ m}^3$ $V_2 = 0.73 \text{ m}^3$<br>$p = -\log (l!/p_2)$                                  |
| · V, = · · m <sup>3</sup>                                                                                                | tog (Va / ) salves artic and                                                                               |
| $H = P_i V_i \ln \left(\frac{P_a}{P_i}\right)$ .                                                                         | () = 100 Solor                                                                                             |
| N = KJ                                                                                                                   | 9 - Pitlood kpa Fa=100 kpa<br>Ti=613 k 8=14                                                                |
| n: skg/s Pi=tookpa Pa=                                                                                                   | $T_2 = \left(\frac{r_2}{r_1}\right)^{\frac{p-1}{p}} \times T,$                                             |
| 1 = 303 A n=13 x = 2 Re                                                                                                  | see Te a                                                                                                   |
| 120287 KJ/KgK                                                                                                            | 1)21 100 (T1= 000 K" T2 = 300 K (S1-5)=-0.697                                                              |
| Pa = JP, Pa we light                                                                                                     | 1 = 000 K T1 = 300 K (S1-S2)= - 0.097                                                                      |
| Pa = KNYINE not                                                                                                          | $\Psi_{1} - \Psi_{2} = m c_{p} (T_{1} - T_{2}) - T_{0} (s_{1} - s_{2})$                                    |
| $W = \frac{x n}{n-1} m E T_{i} \left[ \left( \frac{\mathbf{P}_{x+1}}{p_{i}} \right)^{n \times 1} \right]$                | $\psi_1 = \psi_1 - \psi_2 = 0$                                                                             |
| W = 1 - Fayger and with                                                                                                  | $M = \frac{2X_{1-3}}{1-3-1} \times 6 \times 0.281 \times 293 \left[ \frac{1500}{100} \frac{23}{3} \right]$ |
| 1: 0-2 m3/ Pi= 100Kpn P4=3                                                                                               |                                                                                                            |
| 1:000 K n=1-25 x =3                                                                                                      | 12. T. = 30 8 K T. = 196:57 h Tz=266 K                                                                     |
| $= \frac{x n}{n \cdot i} P_i V_i \left[ \left( \frac{P_{x+1}}{P_i} \right)^{n \times 1} - 1 \right]$                     | Y=14 n=13 Ty=1266 K<br>COP = - T3- T1                                                                      |
|                                                                                                                          | $\frac{1}{12-1} \frac{p-1}{2} \left[ T_{44} - T_1 + T_2 - T_2 \right]$                                     |
| L                                                                                                                        | Core                                                                                                       |

| EN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | GINCERING 7111СЕМАВУЙМА<br>UNIT-112, 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | in.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $\begin{array}{c} \underline{G(ver)} \\ M = 3 & h_1 = 3374.6 \\ h_2 = 2293.27 \\ W = 2000 \\ Formula = m(h_1) = m(h_2 + 6\frac{1}{2}) + 4 \\ C_2 = \underline{} \\ G_{1000} \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | $ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ $ | 11) $\frac{G_{1200}}{h_{T}} = 0.8  h_{\pi} = 3160.4 \\ h_{2} = 2187.78 \\ W_{T} = \eta_{-T} \times (h_{x} - h_{z}) \\ W_{T} =$                                                                                                                                                                                                                                                                                                          |
| $ \begin{split} & m = 12  h_1 = 607.62 \\ & m_2 = 13.805.62 \\ & V_1 = D \cdot 0025, P_1 = 80.648 \\ & P_{2.5} = 1000 \text{ LPA}. \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(G - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(G - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{1000}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{($ | $\begin{array}{c} \frac{f_{100}}{h_1 = 3160 \cdot 62} & h_{15} = 173 \cdot 9 \\ w_{PE} = R_{100} T \\ q_1 = h_1 - (h_2 + w_P) \\ q_2 = \\ q_1 = h_1 - (h_2 + w_P) \\ q_3 = \\ q_1 = h_1 - (h_2 + w_P) \\ q_4 = \\ q_1 = h_1 - (h_2 + w_P) \\ q_5 = \\ q_1 = h_1 - (h_2 + w_P) \\ q_5 = \\ q_1 = h_1 - (h_2 + w_P) \\ q_5 = \\ q_1 = h_1 - (h_2 + w_P) \\ q_5 = \\ q_1 = h_1 - (h_2 + w_P) \\ q_5 = \\ q_1 = h_1 - (h_2 + w_P) \\ q_5 = \\ q_1 = h_1 - (h_2 + w_P) \\ q_5 = \\ q_1 = h_1 - (h_2 + w_P) \\ q_5 = \\ q_1 = h_1 - (h_2 + w_P) \\ q_5 = \\ q_1 = h_1 - (h_2 + w_P) \\ q_5 = \\ q_1 = h_1 - (h_2 + w_P) \\ q_2 = $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 12) Given:<br>$W_{rel} = 778.16 h_{1-2}$<br>$h_{3} = 255.04$<br>formulo = $W_{ret}$<br>$h_{1}-h_{3}$<br>$\eta_{R} =$<br>13) $m_{1} = 3 h_{1} = 3025$<br>$m_{x} = 2 h_{2} = 3245.7^{\circ}$<br>$m_{x} = 5$<br>$h_{3} = \frac{m_{1}h_{1} + m_{2}h_{2}}{m_{3}}$<br>$h_{3} =$<br>14) Given:<br>$h_{7} = 2.677.73 h_{2} = 2.632$<br>$V_{2} = 0.3235, \beta_{1} = 4.00 kPA$<br>$B_{2} = 556 kPA$<br>$G = (h_{2}-h_{1}) - V_{2} (P_{2}-h_{2})$ |
| $M = 0.8, P_{1}=150_{0}V_{1}=0.1$ $P_{2} = 150_{1}, V_{2}=0.455  n=1.2$ $F_{5}m_{1}A_{1}=3, W=M\left[\frac{P_{1}V_{1}-P_{2}V_{1}}{n-1}\right]$ $W = \dots$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5 Given                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 15)<br>X = 0.005529, 6                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                                                                                                                                                                                                                                                                                         | UNIT- 5<br>PSYCHROMETRY.                                                                                                                                                            | n - marine and                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $\begin{array}{l} \underline{Ginon:} \\ \hline m_{a} = 45 \ \text{kg} \\ \hline C_{A} = 1.005^{-} \ \text{Tm}^{-} 4089 \\ \hline T_{a} = 423 \ \text{K} \\ \underline{4} Sa = m_{a} C_{FA} \ \text{ln} \left( \overline{Tm} / \overline{T_{a}} \right) \\ Am_{b} = \underline{4} Sa = $ | W=0.00946 ha=2538.2                                                                                                                                                                 | 11) $\frac{G_{iren}}{h_{b}} = 697.1$<br>$h_{2} = 2827.76$ , $h_{5} = 163.4$<br>$h_{b} = (m_{1} \times h_{2}) + (1-m_{1})_{Xh_{5}}$<br>$m_{1} =$                                                          |
| $  \frac{Giron:}{P_2 = U_{00}k_{1}/m^2} \\ P_1 := 200k_{1}/m^2 h = 1.25^{-1} \\ T_1 := 2.93k \\ T_3/T_1 := (B_1/T_1)^{\frac{n-1}{T_1}} \\ T_2 := \_ $                                                                                                                                   | 7) Given:<br>$olg_{dk} = 35 \times lo^{3}$<br>$T_{c}^{2} = 493 \times$<br>$V_{g} = 0.06 (63)$<br>$V_{f} = 0.00119$<br>$(dg_{dk}) = \frac{h_{fg}}{T_{s}(v_{g}.v_{g})}$               | 12) <u>Given:</u><br>$h_1 = 2995.1$<br>$h_2 = 2119.26$ , $h_7 = 229.001$<br>$\eta_{volume} = (h_1 - h_3)$<br>$h_{re}: \eta_{staneou} =$                                                                  |
| $\begin{array}{l} \hline G_{117001} \\ \hline P_{SW} = 3.770 \ km/m^2 \\ \hline P_{S} = 100 \ km/m^2 \\ \hline P_{d} = 311 \ k \\ \hline T_{W} = 301 \ k \\ \hline P_{V} = \frac{P_{SW}}{r} - (P_{0} \cdot P_{SW}) (t_{d} - t_{W}) \end{array}$                                         | Anc: $h_{fg=}$<br>*) Given:<br>$r_{1}$<br>$G_{p=1:155}$<br>$T_{2} = 423 k$<br>$T_{1} = 323 k^{2}$                                                                                   | 13) <u>Given</u> :<br>$P_{0} = 0 \cdot 01519$ $P_{5} = 0 \cdot 02337$<br>$P_{0} = 1 \cdot 0132$<br>$\mu = P_{1}^{2}/P_{5}\left(\frac{P_{0} - P_{5}}{P_{0} - P_{5}}\right)$<br>$\mu = -$                  |
| $\begin{array}{c} V_{1} = \frac{(3\omega^{-}(1+1)\omega)(4(1+1\omega))}{1527(4-1)(3+1\omega)}\\ P_{V} = \frac{1}{(1+1)(1+1)(1+1)(1+1)(1+1)(1+1)(1+1)(1+1$                                                                                                                               | 414 =                                                                                                                                                                               | 14) Given<br>h = 0.754<br>Rr = 1010<br>h = w/gs<br>And: W=                                                                                                                                               |
| $\frac{m_1}{m_2} = \frac{\omega_2 - \omega_2}{\omega_1 - \omega_3}$ $\omega_2 = \frac{\omega_2 - \omega_2}{\omega_1 - \omega_3}$ $\phi = 0.6$ $f_S = 4.246 \text{ basy}$                                                                                                                | $V = V_{f} + \mathcal{X} (V_{g} - V_{f})$ $\mathcal{R} =$                                                                                                                           | $ \begin{array}{c} V_{f_{2}} = 0.00 \left( 0.27 \right) \\ P_{1} = 600 \left( N \right) \\ W_{P} = V_{f_{2}} \left( P_{1} - P_{2} \right) \\ W_{P} = \frac{1}{2} \\ W_{P} = \frac{1}{2} \\ \end{array} $ |
| φ = Pv/Ps<br>Pv=bon                                                                                                                                                                                                                                                                     | $ \mathcal{Q} = m \left[ h_{a} - h_{i} \right] - V \left( \rho_{a} - \rho_{i} \right) $ $ \mathcal{Q}_{a} = m \left[ h_{a} - h_{i} \right] - V \left( \rho_{a} - \rho_{i} \right) $ |                                                                                                                                                                                                          |

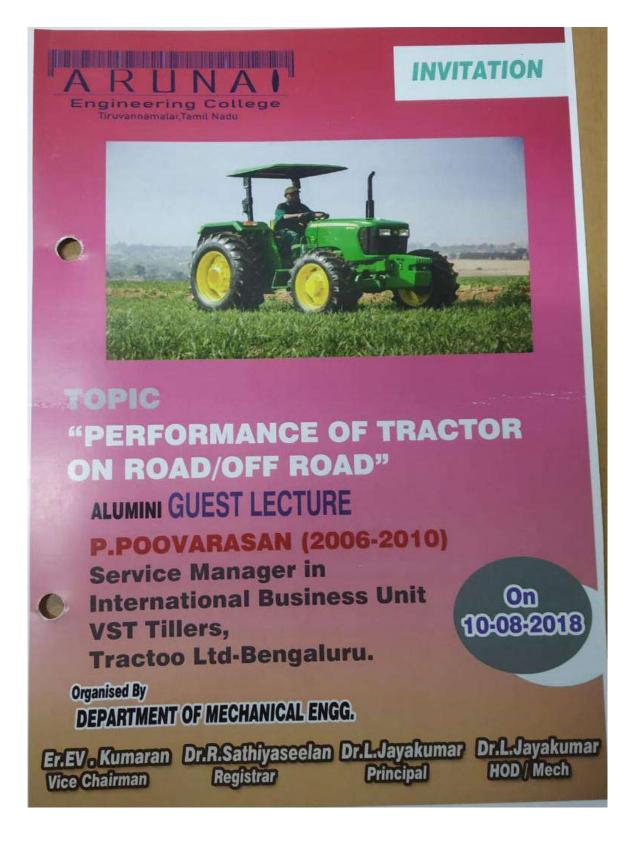






Guest Lecture For Students Learning Purpose.







Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2018-19 Department of Humanities and Science

| Feedback<br>Collected from | Number of<br>responses | Suggestions                                  | Action taken                                              | Evidence                                                                                                        |
|----------------------------|------------------------|----------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Faculty                    | 19                     | Need reference book in<br>Department Library | Reference and text books arranged in department library   | in the second |
| Students                   | 400                    | Maths special special classes was asked      | Maths special classes were arranged for the slow learners | Attached                                                                                                        |

Prepared By



PRINCIPAL

Principal Arunai Engineering College Tiruvannamalai : 600 669

HOD-HAS Department of HAS Arunal Engineering College, Thiruvannamalai - 3.

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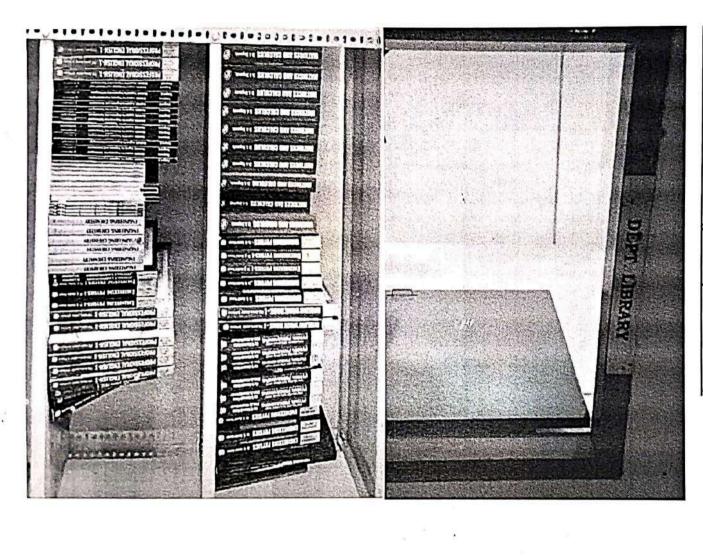




# **Department of Humanities and Science**

such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2018-19 Action taken report for the Analysis of Feedback Collected from various stakeholders,

# Reference and text book arranged in Department Library



should attend the special classes without fail. Attendance is compulsory. the slow learners in the department of HAS from this week to next four Special dates: Saturdays. Slow learners has attached in it and the mentioned students This is to inform you all that maths special classes are arranged for Lancher's Intellectual Senetuary 4.07/03/2019 ŝ . 6102/20170 23/02/2019 16/02/2019 TIRUVA Circular Z Z Z Z AHOD ~ > Date: 11/02/2019 DNV 150 9001



Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2018-19

**Department of Information Technology** 

| Feedback<br>Collected from | Number of responses              | Suggestions                                                                                                                                           | Action taken                                                                                                                                                                  | Evidence |
|----------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | syllabus Web Technology using Ce |                                                                                                                                                       | 1. Through proper channel a suggestion letter forwarded to Director, Centre for Academic Course, Anna University-Chennai.                                                     |          |
| Students                   | 10                               | <ul> <li>1.Need more coaching class for problem solving skills</li> <li>2.Arrange Value Added Course for currents trends and opportunities</li> </ul> | <ol> <li>Special Classes conducted for<br/>problematic subjects.</li> <li>Deptrament Value added Course was<br/>arranged</li> </ol>                                           | Attached |
| Alumni                     | 95                               | Placement training and practices should be provided                                                                                                   | Additional coaching class and practices<br>conducted by Training and placement<br>cell                                                                                        |          |
| Employers                  | 2                                | <ol> <li>Enhance awareness about new technologies</li> <li>Improve the domain knowledge and to put employability skills</li> </ol>                    | <ol> <li>Several technical programs<br/>organized to improve technical skills.</li> <li>Workshops arranged for students to<br/>become more subject matter experts.</li> </ol> |          |

**Prepared By** 

HOD-I

PRINCIPAL

Principal Arunai Engineering College Tiruvannamalai - 606 603





. NBA & NAAC Accredited . An ISO 9001-2015 Certified Institution

Date: 21.10.2019

From: The Principal Arunai Engineering College. Velu Nagar.Su-Kilnachipattu. Tiruvannamalai - 606 603.

To: The Director Centre for Academic Courses Anna University Chennai- 600025.

# Respected Sir.

SUB: Review of feedback from faculty members about curriculum as per regulation 2017-Reg. Greetings

the new regulations syllabus of Web Technology. As per the feedback received from our faculty members, the following topics may be included in

used in backend: in fact, Python is listed among the most popular backend language language. It can be used for both frontend and backend development. However, it is more widely Study of Web Technology using Python code. Python is a general programming

responses: accessing databases: authenticating users; authorizing access. frameworks to construct its backend. These tasks, including parsing HTTP requests and creating Study of Python with web application development typically employs Python

of the top Python frameworks complicated code and applications by programmers. Python web developers can use it to create high-quality web apps. Django is widely used to construct APIs and web applications and is one Django is a free, open-source Python framework that enables rapid development of

regulations Kindly request you to consider the above mentioned and that can be included in the forthcoming



Thank and regards

10.15

PRINCIPAL ARUNAI ENGINEERING COLLEGE THIRUVANNAMLAI - 606 603.



www.arunai.org

Resource Person Mr.Uvan L CEO-Projects, STU Innovations Pvt Ltd

# OCTOBER 2019- NOVEMBER 2019

**COURSE DURATION** 









# Department of Information Technology

The Management, Principal, stalf and students of Arunai Engineering College cordially invites you to join

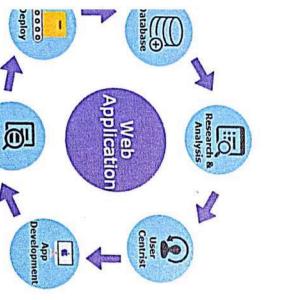
GUEST LECTURE

# Web Application using pytho

Date 28.10.2019 @ 10.30 am Venue: AC Auditorium

Chief Guest

In association wi



Tamilnadu JONE TECHNOLOGIES, A. Cuddalore, Saturatie Fragrammer,

In the Presence of

Er.E.V.Kumaran

Test

HOD

www.arunai.

Welcome Address

Principal

Dr.L.Jayakumar

Dr.K.Anitha

Felicitation by

Registrar

Dr.R.Sathiyaseelan

Presided by

Vice Chairman



Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2018-19 Department of Mechanical Engineering

| Feedback<br>Collected from | Number of<br>responses                                                                                                                                                                                                                                                                                            | Suggestions                                                                                                                                                            | Action taken                                                                                                                                                                                   | Evidence |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Faculty                    | 7                                                                                                                                                                                                                                                                                                                 | 1.Internet facility is required at<br>staff room<br>2.to enhance the practical<br>exposure of faculty members by<br>undergoing workshop/ FDP                           | 1.Internet facility provided at CAM<br>Lab/CAD Lab<br>2.Faculty members motivate to<br>participate various skill development<br>programs in reputed institution                                |          |
| Students                   | 120                                                                                                                                                                                                                                                                                                               | 1. Need more coaching class for<br>problem solving skills and<br>Identifying problem and formals.<br>2.Arrange guest lectures for<br>currents trends and opportunities | 1. Prepared study material for<br>problematic subjects.<br>2.Deptrament guest lecture was<br>arranged                                                                                          |          |
| Alumni                     | I.Placement         Training         Addition           communication         skill         conduct           l2         development         needed         cell.           2.         Alumni         Guest         Lecture         Sugges           improve         Gap between         industry         improve |                                                                                                                                                                        | Additional coaching class and practices<br>conducted by Training and placement<br>cell.<br>Suggests for reading practice to<br>improvise communication skill.<br>Alumni Guest Lecture Arranged | Attached |
| Employers                  | 4                                                                                                                                                                                                                                                                                                                 | Technical skill needed                                                                                                                                                 | <ol> <li>Several technical programs<br/>organized to improve technical skills.</li> <li>Workshops arranged for students to<br/>become more subject matter experts.</li> </ol>                  |          |

S. Re-F. Prepared By

Al Tryphon HOD-MECH

Al mphone Principal



Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2018-19

Internet facility Arranged to Staff Cabin.

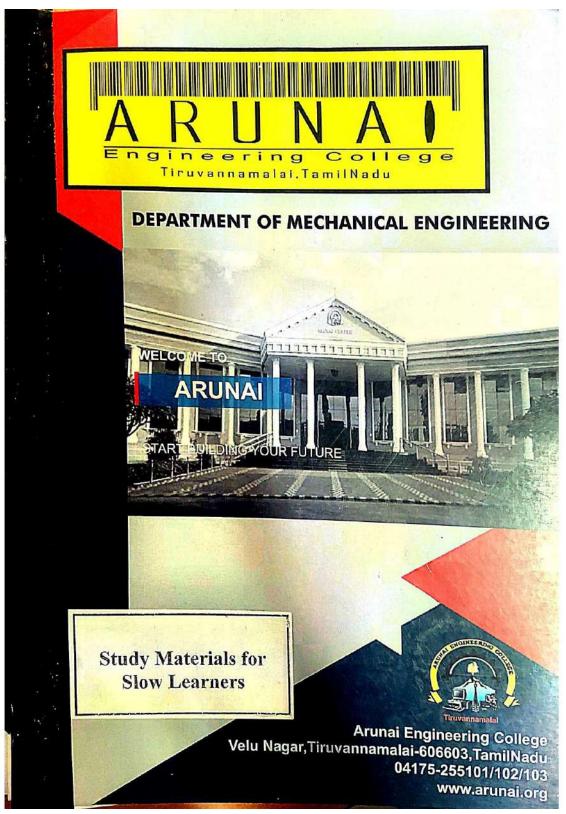






Action taken report for the Analysis of Feedback Collected from various stakeholders, such as Students, Teachers, Employers, Alumni on the academic performance and ambience of the institution during Academic year 2018-19

Prepared Study Material and given to students.



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10 Eler                                                                                                                                                                                                                                                                  | 10 Given:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| en dala'<br>$T_{H} = 873 K$<br>$T_{L} = 333 K$<br>$\eta_{HC} + \frac{T_{H} - T_{L}}{T_{H}}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $ \begin{array}{c} (\mathfrak{b})  \mathfrak{X}_{i} := & \overline{\mathfrak{b}/\mathfrak{b}} \\ & \left( \overline{\mathfrak{b}/\mathfrak{b}} + \frac{\mathfrak{b}}{\mathfrak{b}/\mathfrak{h}} \overline{\mathfrak{q}} \right), \\ \mathfrak{X}_{i} := &  \end{array} $ | $\begin{array}{l} T_{2} = (1)^{1/2} G_{1}^{1/2} = T_{1}^{1/2} G_{1}^{1/2} G_{$ |
| ]u€=*/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 子) <u>Given:</u><br>m=10 Kg Ti=673K<br>R=0.284 「5=248:58K<br>タ=1.4                                                                                                                                                                                                       | $\Delta S = mR \ln(\frac{P_2}{R_1}) + m c_{P_2} l_n (1_2/R_1)$ $\Delta S = \underline{\qquad}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| P= 120 KW/m <sup>2</sup><br>V, = 1-121m <sup>3</sup><br>P <sub>2</sub> = 1-350 KW/m <sup>2</sup><br>V <sub>2</sub> = 0+1427 m <sup>3</sup><br>n = 1-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $W = \frac{m R(T_1 - T_2)}{3^{2} - 1}$ $W = \underline{\qquad}$                                                                                                                                                                                                          | 12) <u>Giron:</u><br>R=100 Kn/m <sup>2</sup><br>V <sub>1</sub> =1-293 m <sup>3</sup><br>V <sub>2</sub> =0-184 m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| $W = \frac{P_1 v_1 - P_2 v_2}{n-1}$ $W = \frac{P_1 v_1 - P_2 v_2}{n-1}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8). <b>Fire</b> :-<br>Pi= 800 KN/m <sup>2</sup><br>P2=90 KN/m <sup>2</sup>                                                                                                                                                                                               | W=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| $\frac{\pi n!}{100 \text{ km}/\text{m}^3} = \frac{T_1 5 286 \text{ K}}{1700 \text{ km}/\text{m}^2} = \frac{1}{100} \frac{\text{ km}/\text{m}^2}{\text{m}^2} = \frac{1}{100} \frac{1}{\text{m}} \frac{1}{100} \frac{1}{\text{m}} \frac{1}{100} \frac{1}{\text{m}} \frac{1}{100} \frac{1}$ | $ \begin{array}{c} v_1 = 0.15 \text{ m}^3\\ v_2 = 0.73 \text{ m}^3\\ v_3 = \frac{\log\left(\frac{P_1/P_2}{P_1}\right)}{\log\left(\frac{V_2/V_1}{P_1}\right)}\\ v_3 = \frac{\log\left(\frac{V_2/V_1}{P_2}\right)}{\log\left(\frac{V_2/V_1}{P_1}\right)}\\ \end{array} $   | $\begin{array}{c} 1.5 & G_{1166n};\\ \hline m_{1}=10  kg \\ c_{1}= \mu_{1}  kg \\ T_{1}=363  k \\ \hline m_{2}: 2.5  kg \\ T_{2}:= 29  3k \\ \hline T_{2}:= 29  3k \\ \hline T_{2}:= 0, \ c_{1}T_{1} + m_{2}  c_{2}  T_{2} \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Ta= 0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 9) <u>Given</u><br>M=1.5 kg-<br>Cp= 0.99 Ti=293k                                                                                                                                                                                                                         | $T_{\mathcal{F}} = \underline{\qquad}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Given:-<br>m= 1<br>Cp = 1.005<br>Tp = 373K<br>Ti = 278K<br>15-mph(T2/Ti)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | $\Delta H = mcp (T_2 = 160.5k)$ $\Delta H = mcp (T_2 - T_1)$ $\Delta H = \underline{\qquad}$                                                                                                                                                                             | (14) Given:<br>$Q_{2}=3000 \text{ W}$ $T_{41}=303 \text{ K}$<br>$T_{L}=263 \text{ K}$<br>$Q_{1}R=0sA_{1} \text{ K} T_{L}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Δs=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10) Given!                                                                                                                                                                                                                                                               | Re=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| $\begin{aligned} & \text{Ry:} & 3.59 \text{ KN/m}^2 \\ & P_{\text{b}} = 100 \text{ KN/m}^2 \\ & y = 0.622 \left( P_{\text{Fb}} - P_{\text{y}} \right) \end{aligned}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 'BPF = 0.4<br>td2 = 20<br>td1 = 1.4<br>To find : td3                                                                                                                                                                                                                     | 15) <u>Given:</u><br>m=1-6 kg<br>R= 0.2877 Ti = 293K<br>Pi = 120KNJm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| W=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | B.P.F = tda-tda<br>tda-tda                                                                                                                                                                                                                                               | $V_1 = mRT_1/R_1$<br>$V_1 =$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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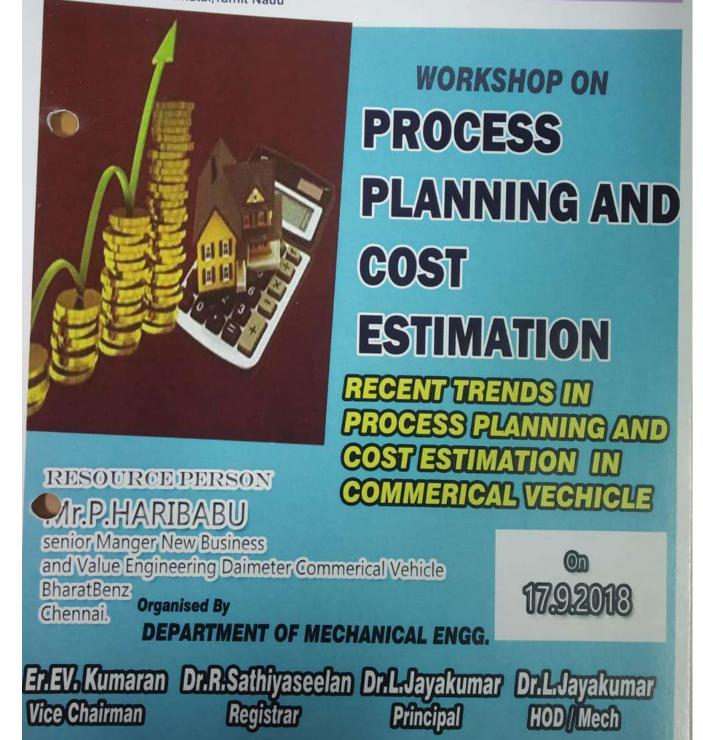
| REAC                                                                                                                     | GASES , THERMODYNAMIC RELATIONS                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| = 0 00                                                                                                                   | SASES, THEEMODYAAFIC RELATIONS<br>5 T.= 303 K P.= 100 Kpc P.= 6,12-12 Kpc<br>n=1-2                         |
| = 1 bar = 100 kpa<br>= 8 Lar = 800 kpa                                                                                   | $T_{2} = T_{1} \left( \frac{f_{n}}{r_{1}} \right)^{n-1} $                                                  |
| 1=295K                                                                                                                   | T <sub>2</sub> = k                                                                                         |
| $\frac{n}{n-1} \stackrel{P_1 \vee_1}{\longrightarrow} \left[ \left( \frac{P_2}{P_1} \right)^{\frac{n-1}{n}} - 1 \right]$ | 6 tog 5 = 1/2 log (135)                                                                                    |
| N+1 L                                                                                                                    | X. =                                                                                                       |
| J = J                                                                                                                    | 7. m=1.6 kg R=0.281 kJ/kgk Vi=121 m3<br>Va=0-14127 m3 Ev=0.718 KO/kgk Testorik                             |
| = 0-16m L = 300mm                                                                                                        | T, = 243K T3 = 548.87K                                                                                     |
| = 100 Kpa T1 = 27 c                                                                                                      | $\Delta S = me \ln \left(\frac{V_{z}}{V_{i}}\right) + m(v \ln \left(\frac{T_{z}}{T_{i}}\right)$            |
| == 650 Kpa N= 120rpm                                                                                                     | AS = KJ/Agk                                                                                                |
| pv <sup>3</sup> = C , v <sup>2</sup> = 1.4                                                                               | 8. Pi=800 kpa P2 = 90 kpg                                                                                  |
| $V_1 = \frac{\pi}{4} \dot{D}^2 L$ (and Ce)                                                                               | $V_1 = 0.15 \text{ m}^3$ $V_2 = 0.73 \text{ m}^3$<br>$p = -\log (l!/p_2)$                                  |
| · V, = · · m <sup>3</sup>                                                                                                | tog (Va / ) salves artic and                                                                               |
| $H = P_i V_i \ln \left(\frac{P_a}{P_i}\right)$ .                                                                         | () = 100 Solor                                                                                             |
| N = KJ                                                                                                                   | 9 - Pitlood kpa Fa=100 kpa<br>Ti=613 k 8=14                                                                |
| n: skg/s Pi=tookpa Pa=                                                                                                   | $T_2 = \left(\frac{r_2}{r_1}\right)^{\frac{p-1}{p}} \times T,$                                             |
| 1 = 303 A n=13 x = 2 Re                                                                                                  | see Te a                                                                                                   |
| 120287 KJ/KgK                                                                                                            | 1)21 100 (T1= 000 K" T2 = 300 K (S1-5)=-0.697                                                              |
| Pa = JP, Pa we light                                                                                                     | 1 = 000 K T1 = 300 K (S1-S2)= - 0.097                                                                      |
| Pa = KNYINE not                                                                                                          | $\Psi_{1} - \Psi_{2} = m c_{p} (T_{1} - T_{2}) - T_{0} (s_{1} - s_{2})$                                    |
| $W = \frac{x n}{n-1} m E T_{i} \left[ \left( \frac{\mathbf{P}_{x+1}}{p_{i}} \right)^{n \times 1} \right]$                | $\psi_1 = \psi_1 - \psi_2 = 0$                                                                             |
| W = 1 - Fayger and with                                                                                                  | $M = \frac{2X_{1-3}}{1-3-1} \times 6 \times 0.281 \times 293 \left[ \frac{1500}{100} \frac{23}{3} \right]$ |
| 1: 0-2 m3/ Pi= 100Kpn P4=3                                                                                               |                                                                                                            |
| 1:000 K n=1-25 x =3                                                                                                      | 12. T. = 30 8 K T. = 196:57 h Tz=266 K                                                                     |
| $= \frac{x n}{n \cdot i} P_i V_i \left[ \left( \frac{P_{x+1}}{P_i} \right)^{n \times 1} - 1 \right]$                     | Y=14 n=13 Ty=1266 K<br>COP = - T3- T1                                                                      |
|                                                                                                                          | $\frac{1}{12-1} \frac{p-1}{2} \left[ T_{44} - T_1 + T_2 - T_2 \right]$                                     |
| L                                                                                                                        | Core                                                                                                       |

| EN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | GINCERING 7111СЕМАВУЙМА<br>UNIT-112, 1                                                                                                                                                                                                                                                                                                                                                                                                                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| $\begin{array}{c} \underline{G(ver)} \\ M = 3 & h_1 = 3374.6 \\ h_2 = 2293.27 \\ W = 2000 \\ Formula = m(h_1) = m(h_2 + 6\frac{1}{2}) + 4 \\ C_2 = \underline{} \\ G_{1000} \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | $ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \end{array} \\ \begin{array}{c} \\ \\ \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ $                                                                                                                                                                         | 11) $\frac{G_{1200}}{h_{T}} = 0.8  h_{\pi} = 3160.4 \\ h_{2} = 2187.78 \\ W_{T} = \eta_{-T} \times (h_{x} - h_{z}) \\ W_{T} =$                                                                                                                                                                                                                                                                                                          |
| $ \begin{split} & m = 12  h_1 = 607.62 \\ & m_2 = 13.805.62 \\ & V_1 = D \cdot 0025, P_1 = 80.648 \\ & P_{2.5} = 1000 \text{ LPA}. \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(G - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(G - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_2 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{1000}{(h_1 - h_1) - V_1(h_1 - P_1)} \\ & \mathcal{B} = \frac{100}{($ | $\begin{array}{c} \frac{f_{100}}{h_1 = 3160 \cdot 62} & h_{15} = 173 \cdot 9 \\ w_{PE} = R_{100} 79 \\ q_1 = h_1 - (h_1^2 + w_P^2) \\ q_2 = \underline{q_1^2} \\ q_1 = \frac{1}{2} q_2 = \frac{1}{2} (f_1 = 0, f_1 = 0) \\ q_2 = \underline{q_1^2} \\ q_1 = \frac{1}{2} q_2 = \frac{1}{2} (f_1 = 0, f_1 = 0) \\ q_1 = \frac{1}{2} q_2 = \frac{1}{2} (f_1 = 0, f_1 = 0) \\ q_1 = \frac{1}{2} q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_1 = \frac{1}{2} (f_1 = 0, f_2 = 0) \\ q_2 = \frac{1}{2} (f_1 = 0, f_2 $ | 12) Given:<br>$W_{rel} = 778.16 h_{1-2}$<br>$h_{3} = 255.04$<br>formulo = $W_{ret}$<br>$h_{1}-h_{3}$<br>$\eta_{R} =$<br>13) $m_{1} = 3 h_{1} = 3025$<br>$m_{x} = 2 h_{2} = 3245.7^{\circ}$<br>$m_{x} = 5$<br>$h_{3} = \frac{m_{1}h_{1} + m_{2}h_{2}}{m_{3}}$<br>$h_{3} =$<br>14) Given:<br>$h_{7} = 2.677.73 h_{2} = 2.632$<br>$V_{2} = 0.3235, \beta_{1} = 4.00 kPA$<br>$B_{2} = 556 kPA$<br>$G = (h_{2}-h_{1}) - V_{2} (P_{2}-h_{2})$ |
| $M = 0.8, P_{1}=150_{0}V_{1}=0.1$ $P_{2} = 150_{1}, V_{2}=0.455  n=1.2$ $F_{5}m_{1}A_{1}=3, W=M\left[\frac{P_{1}V_{1}-P_{2}V_{1}}{n-1}\right]$ $W = \dots$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 15)<br>X = 0.005529, 6                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                                                                                                                                                                                                                                                                                                 | UNIT- 5<br>PSYCHROMETRY.                                                                                                                                                            | n - marine and                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| $\begin{array}{l} \underline{Ginon:} \\ \hline m_{a} = 45 \ \text{kg} \\ \hline C_{A} = 1.005^{\circ} \ \text{Tm}^{\circ} 4089 \\ \hline T_{a} = 423 \ \text{K} \\ \underline{4} Sa = m_{a} C_{FA} \ \text{ln} \left( \overline{Tm} / \overline{T_{a}} \right) \\ Am_{b} = \underline{4} Sa = $ | W=0.00946 ha=2538.2                                                                                                                                                                 | 11) $\frac{G_{iren}}{h_{b}} = 697.1$<br>$h_{2} = 2827.76$ , $h_{5} = 163.4$<br>$h_{b} = (m_{1} \times h_{2}) + (1-m_{1})_{Xh_{5}}$<br>$m_{1} =$                                                          |
| $  \frac{Giron:}{P_2 = U_{00}k_{1}/m^2} \\ P_1 := 200k_{1}/m^2 h = 1.25^{-1} \\ T_1 := 2.93k \\ T_3/T_1 := (B_1/T_1)^{\frac{n-1}{T_1}} \\ T_2 := \_ $                                                                                                                                           | 7) Given:<br>$olg_{dk} = 35 \times lo^{3}$<br>$T_{c}^{2} = 493 \times$<br>$V_{g} = 0.06 (63)$<br>$V_{f} = 0.00119$<br>$(dg_{dk}) = \frac{h_{fg}}{T_{s}(v_{g}.v_{g})}$               | 12) <u>Given:</u><br>$h_1 = 2995.1$<br>$h_2 = 2119.26$ , $h_7 = 229.001$<br>$\eta_{volume} = (h_1 - h_3)$<br>$h_{re}: \eta_{staneou} =$                                                                  |
| $\begin{array}{l} \hline G_{117001} \\ \hline P_{SW} = 3.770 \ km/m^2 \\ \hline P_{S} = 100 \ km/m^2 \\ \hline P_{d} = 311 \ k \\ \hline T_{W} = 301 \ k \\ \hline P_{V} = \frac{P_{SW}}{r} - (P_{0} \cdot P_{SW}) (t_{d} - t_{W}) \end{array}$                                                 | Anc: $h_{fg=}$<br>*) Given:<br>$r_{1}$<br>$G_{p=1:155}$<br>$T_{2} = 423 k$<br>$T_{1} = 323 k^{2}$                                                                                   | 13) <u>Given</u> :<br>$P_{0} = 0 \cdot 01519$ $P_{5} = 0 \cdot 02337$<br>$P_{0} = 1 \cdot 0132$<br>$\mu = P_{1}^{2}/P_{5}\left(\frac{P_{0} - P_{5}}{P_{0} - P_{5}}\right)$<br>$\mu = -$                  |
| $\begin{array}{c} V_{1} = \frac{(3\omega^{-}(1+1)\omega)(4(1+1\omega))}{1527(4-1)(3+1\omega)}\\ P_{V} = \frac{1}{(1+1)(1+1)(1+1)(1+1)(1+1)(1+1)(1+1)(1+1$                                                                                                                                       | 414 =                                                                                                                                                                               | 14) Given<br>h = 0.754<br>Rr = 1010<br>h = w/gs<br>And: W=                                                                                                                                               |
| $\frac{m_1}{m_2} = \frac{\omega_2 - \omega_2}{\omega_1 - \omega_3}$ $\omega_2 = \frac{\omega_2 - \omega_2}{\omega_1 - \omega_3}$ $\phi = 0.6$ $f_S = 4.246 \text{ basy}$                                                                                                                        | $V = V_{f} + \mathcal{X} (V_{g} - V_{f})$ $\mathcal{R} =$                                                                                                                           | $ \begin{array}{c} V_{f_{2}} = 0.00 \left( 0.27 \right) \\ P_{1} = 600 \left( N \right) \\ W_{P} = V_{f_{2}} \left( P_{1} - P_{2} \right) \\ W_{P} = \frac{1}{2} \\ W_{P} = \frac{1}{2} \\ \end{array} $ |
| φ = Pv/Ps<br>Pv=bon                                                                                                                                                                                                                                                                             | $ \mathcal{Q} = m \left[ h_{a} - h_{i} \right] - V \left( \rho_{a} - \rho_{i} \right) $ $ \mathcal{Q}_{a} = m \left[ h_{a} - h_{i} \right] - V \left( \rho_{a} - \rho_{i} \right) $ |                                                                                                                                                                                                          |







Guest Lecture For Students Learning Purpose.



