

**3.2.2 Number of workshops/seminars/Conference including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years (1st June 2021- 31st August 2022)**

S. No	Year	Name of the workshop/ seminar/ conference	Number of Participants	Date From – To	Link to the Activity report on the website
<b>College Level</b>					
1	2021	Hindrance faced by Entrepreneurs	25	22.08.2021	<a href="https://www.ritrjpm.ac.in/images/mechanical/2021-2022/2021-22_IIC_Consolidated_Report.pdf">https://www.ritrjpm.ac.in/images/mechanical/2021-2022/2021-22_IIC_Consolidated_Report.pdf</a>
2	2021	Webinar on Drafting Impactful Research Articles, Project Proposals & Patents	97	04.09.2021	
3	2021	Entrepreneurial Impact in Automotive Industry	60	22.09.2021	
4	2021	Funding opportunity for early-stage Entrepreneurs	30	23.09.2021	
5	2021	Aspiring Entrepreneurs Program 2021 – Motivational live session	30	27.10.2021	
6	2021	Entrepreneurship & Innovation as Career Opportunity	29	29.10.2021	
7	2021	Students - Alumni Interaction - Entrepreneur Meet	24	15.11.2021	
8	2021	SAMBHAV – National Level Awareness Program on Entrepreneurship (e-NLAP)	121	26.11.2021	
9	2021	National Level Webinar on “Strategies to Write Research Proposal and Funding Opportunities in India – An Overview”	146	08.12.2021	
10	2021	A colloquy on IP and Its Impact on Society	83	04.12.2021	
11	2021	Tamil Nadu Student Innovator 2021 Awareness Programme	56	: 09.12.2021	
12	2021	My Story – Motivation Session by an Entrepreneur – Opportunities in Solar Field	36	12.12.2021	
13	2021	Invited Talk by Prominent Entrepreneur	83	15.12.2021	
14	2021	My Story – Motivational Session by an Innovator	32	19.12.2021	
15	2022	e-Symposium on Building Innovation & Entrepreneurial Ecosystem Institutions	35	11.01.2022	
16	2022	Problem Solving and Ideation Workshop using Design Thinking	23	05.02.2022	
17	2022	Field Exposure / Visit to Pre-Incubation Units	29	21.02.2022	
18	2022	Orientation Session on IIC4.0 & Features - MoE's Innovation Cell	34	24.01.2022	

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19	2022	Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & "Commercialization of Lab Technologies & Tech-Transfer	57	25.02.2022	
20	2022	Achieving Problem-Solution Fit & Product-Market Fit	55	25.02.2022	
21	2022	Motivation Camp about MSME	58	21.03.2022	
22	2022	Entrepreneurship is the Way	200	22.03.2022	
23	2022	Exchange of thoughts Lecture on Finance Planning for a Start-up Business	25	09.04.2022	
24	2022	Field Visit to an Incubation Centre	24	25.06.2022	
<b>Civil Engineering</b>					
1	2021	Technical Webinar on "TBM Tunnel Excavation in Metro Projects"	96	07.07.2021	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php</a>
2	2021	Technical Webinar on "Recent Trends in Coordinates Based Survey Technology"	61	10.07.2021	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php</a>
3	2021	Technical Webinar on "The Use of Innovative Technologies in the Construction Industry"	221	13.07.2021	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php</a>
4	2021	Guest Lecture on "An overview of Quantity Surveying"	71	17.09.2021	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php</a>
5	2021	Webinar on "Autodesk's BIM Softwares"	10	17.12.2021	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php</a>
6	2022	Motivational Talk on "Career opportunities in Civil Engineering"	50	14.02.2022	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php</a>
7	2022	One day Virtual Workshop on MATLAB – A Modelling Tool for Civil Engineering Applications	39	09.03.2022	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-workshop-seminars.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-workshop-seminars.php</a>

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8	2022	Guest Lecture on the topic Ergonomics in construction	40	25.03.2022	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php</a>
9	2022	Webinar on Big Benefits of Building Information Modelling (BIM)	25	22.04.2022	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php</a>
10	2022	Webinar on Reality Modeling	70	18.05.2022	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php</a>
11	2022	Webinar on Standard Operating Procedure for Bentley Certification	12	19.05.2022	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php</a>
<b>Computer Science and Engineering</b>					
1	2021	Guest Lecture on “Recent trends in Artificial Intelligence and Data Science”	101	28.08.2021	<a href="https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-expert-lecture-guest-lecture.php</a>
2	2021	Workshop on Introduction to React Js with Git and Surge	115	11.09.2021	<a href="https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-expert-lecture-guest-lecture.php</a>
3	2022	Guest Lecture on Scrum Agile Framework	60	16.04.2022	<a href="https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-expert-lecture-guest-lecture.php</a>
4	2022	Orientation Program on Government Job Opportunitis for Engineering Students	60	29.04.2022	<a href="https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-expert-lecture-guest-lecture.php</a>
5	2021	Seminar on Virtual Labs	57	21.10.2021	<a href="https://www.ritrjpm.ac.in/professional-societies/IE-CSE.php">https://www.ritrjpm.ac.in/professional-societies/IE-CSE.php</a>
6	2021	Guest Lecture on “Cloud Computing”	73	21.11.2021	<a href="https://www.ritrjpm.ac.in/professional-societies/IE-CSE.php">https://www.ritrjpm.ac.in/professional-societies/IE-CSE.php</a>

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7	2021	Guest Lecture on “Java Spring Boot Microservices”	60	24.12.2021	<a href="https://www.ritrjpm.ac.in/professional-societies/IE-CSE.php">https://www.ritrjpm.ac.in/professional-societies/IE-CSE.php</a>
8	2022	Guest Lecture on Industrial Applications of Data Structures	80	08.01.2022	<a href="https://www.ritrjpm.ac.in/professional-societies/IE-CSE.php">https://www.ritrjpm.ac.in/professional-societies/IE-CSE.php</a>
9	2022	Guest Lecture on Software Test Automation and Tools	45	12.02.2022	<a href="https://www.ritrjpm.ac.in/professional-societies/IE-CSE.php">https://www.ritrjpm.ac.in/professional-societies/IE-CSE.php</a>
10	2021	Guest Lecture on Entrepreneurship	120	24.09.2021	<a href="https://www.ritrjpm.ac.in/professional-societies/csi-1.php">https://www.ritrjpm.ac.in/professional-societies/csi-1.php</a>
11	2021	Guest Lecture on Computer Networks	70	12.11.2021	<a href="https://www.ritrjpm.ac.in/professional-societies/csi-1.php">https://www.ritrjpm.ac.in/professional-societies/csi-1.php</a>
12	2022	Anna University Sponsored Six Days Faculty Development Training Program on "CS8651 Internet Programming"	65	03.01.2022 to 08.01.2022	<a href="https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-fdp-ftp-sttp.php">https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-fdp-ftp-sttp.php</a>
13	2022	Industrial Guest Lecture on Java Collections	78	12.01.2022	<a href="https://www.ritrjpm.ac.in/professional-societies/csi-1.php">https://www.ritrjpm.ac.in/professional-societies/csi-1.php</a>
14	2022	Workshop on Arduino and IoT	33	11.08.2022 to 13.08.2022	<a href="https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-workshop---seminars.php</a>
15	2022	Workshop on Robotic Process Automation	30	11.08.2022 to 13.08.2022	<a href="https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/computer-science-engg/computer-science-engg-program-organized-workshop---seminars.php</a>

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<b>Electrical and Electronics Engineering</b>					
1	2021	Webinar on Huge Career opportunities for EEE Graduates	55	06.08.2021	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php</a>
2	2021	Webinar on How to crack TCS Ninja	21	08.08.2021	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php</a>
3	2021	Opportunities for Higher Education in Abroad	39	20.09.2021	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php</a>
4	2021	Art of learning	61	04.12.2021 to 06.12.2021	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php</a>
5	2022	Awareness talk on Internship, UG Research and Higher Education	40	22.01.2022	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php</a>
6	2022	Interactive Session on Circuit Breakers	21	24.01.2022	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php</a>
7	2022	How to write a grant proposal for Electrical Engineering	13	24.01.2022	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php</a>
8	2022	Interactive Session on Power Circuits	25	25.01.2022	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php</a>

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9	2022	How to write an effective seminar / project proposal for Electrical Engineering	13	26.01.2022	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php</a>
10	2022	Interactive Session on AC Machines	28	27.01.2022	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php</a>
11	2022	a Five Day Short Term Training Program (STTP) on “FUNDAMENTALS ON ELECTRICALS AND ELECTRONICS”	18	11.02.2022 to 16.02.2022	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-fdp-ftp-sttp.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-fdp-ftp-sttp.php</a>
12	2022	Workshop on AICTE Examination Reforms	11	24.02.2022-25.02.2022	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-workshop---seminars.php</a>
13	2022	Online FDP on Bio Inspired Optimization Techniques for Electrical Engineering Applications	50	21.02.2022 to 23.02.2022	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-fdp-ftp-sttp.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-fdp-ftp-sttp.php</a>
14	2022	Guest Lecture on Instrument Transformer	60	24.04.2022	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-expert-lecture-guest-lecture.php</a>
15	2022	“How to face State and Central Government Exams”	63	22.03.2022	<a href="https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-expert-lecture-guest-lecture.php</a>

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<b>Electronics and Communicatoin Engineering</b>					
1	2021	Short Term Course on "Design and Analysis of MOS Circuits"	33	05.09.2021 to 21.11.2021	<a href="https://www.ritrjpm.ac.in/images/electrical-communication/2021-2022/IE-ECE-21/ECE-IE-Events-Consolidation-2021-2022.pdf">https://www.ritrjpm.ac.in/images/electrical-communication/2021-2022/IE-ECE-21/ECE-IE-Events-Consolidation-2021-2022.pdf</a>
2	2021	Short Term Course on "Connected Car-Electronics"	19	05.09.2021 to 21.11.2021	<a href="https://www.ritrjpm.ac.in/images/electrical-communication/2021-2022/IE-ECE-21/ECE-IE-Events-Consolidation-2021-2022.pdf">https://www.ritrjpm.ac.in/images/electrical-communication/2021-2022/IE-ECE-21/ECE-IE-Events-Consolidation-2021-2022.pdf</a>
3	2021	Value Added Course on " Embedded System Design using ARM LPC2148"	30	05.09.2021 to 21.11.2021	<a href="https://www.ritrjpm.ac.in/professional-societies/iete.php">https://www.ritrjpm.ac.in/professional-societies/iete.php</a>
4	2021	Guest lecture on “Advances in Antenna design for Biomedical Applications”	220	29.10.2021	<a href="https://www.ritrjpm.ac.in/professional-societies/iete.php">https://www.ritrjpm.ac.in/professional-societies/iete.php</a>
5	2021	Webinar on “Role of Embedded Systems in E-Vehicle	27	08.12.2021	<a href="https://www.ritrjpm.ac.in/professional-societies/iete.php">https://www.ritrjpm.ac.in/professional-societies/iete.php</a>
6	2022	Webinar on “Embedded Systems in Automotive Industries"	85	22.01.2022	<a href="https://www.ritrjpm.ac.in/images/electrical-communication/2021-2022/IE-ECE-21/ECE-IE-Events-Consolidation-2021-2022.pdf">https://www.ritrjpm.ac.in/images/electrical-communication/2021-2022/IE-ECE-21/ECE-IE-Events-Consolidation-2021-2022.pdf</a>
7	2022	Guest Lecture on "Wearable Sensors on Biomedical Applications"	64	27.01.2022	<a href="https://www.ritrjpm.ac.in/images/electrical-communication/2021-2022/IE-ECE-21/ECE-IE-Events-Consolidation-2021-2022.pdf">https://www.ritrjpm.ac.in/images/electrical-communication/2021-2022/IE-ECE-21/ECE-IE-Events-Consolidation-2021-2022.pdf</a>

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8	2022	Hands on session for “Working with different color modes for Web/Social Media/Print Media”	33	28.02.2022	<a href="https://www.ritrjpm.ac.in/departments/electronics-communication-engg/electronics-communication-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/electronics-communication-engg/electronics-communication-engg-program-organized-expert-lecture-guest-lecture.php</a>
9	2022	FDP on RF Measurement devices for 5G"	7	14.02.2022 & 15.02.2022	<a href="https://www.ritrjpm.ac.in/departments/electronics-communication-engg/electronics-communication-engg-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/electronics-communication-engg/electronics-communication-engg-program-organized-workshop---seminars.php</a>
10	2022	Workshop on Industrial Applications of IoT: Smart Cars and Home Automation	59	26.03.2022	<a href="https://www.ritrjpm.ac.in/professional-societies/iste-1.php">https://www.ritrjpm.ac.in/professional-societies/iste-1.php</a>
11	2022	Workshop on LabVIEW Programming	14	26.03.2022	<a href="https://www.ritrjpm.ac.in/professional-societies/iste-1.php">https://www.ritrjpm.ac.in/professional-societies/iste-1.php</a>
12	2022	Hands on Session on “Image Processing Using Machine Learning in MATLAB”	70	26.03.2022	<a href="https://www.ritrjpm.ac.in/professional-societies/iste-1.php">https://www.ritrjpm.ac.in/professional-societies/iste-1.php</a>
13	2022	Hands on session on "Antenna Design"	37	26.03.2022	<a href="https://www.ritrjpm.ac.in/professional-societies/iste-1.php">https://www.ritrjpm.ac.in/professional-societies/iste-1.php</a>
14	2022	Workshop on “Machine Learning & its Applications with Python”	43	27.05.2022	<a href="https://www.ritrjpm.ac.in/images/electrical-communication/2021-2022/IE-ECE-21/ECE-IE-Events-Consolidation-2021-2022.pdf">https://www.ritrjpm.ac.in/images/electrical-communication/2021-2022/IE-ECE-21/ECE-IE-Events-Consolidation-2021-2022.pdf</a>
15	2022	Webinar on “Challenges and Opportunities of Artificial Intelligence (AI) in Healthcare Applications”	22	21.06.2022	<a href="https://www.ritrjpm.ac.in/images/electrical-communication/2021-2022/IE-ECE-21/ECE-IE-Events-Consolidation-2021-2022.pdf">https://www.ritrjpm.ac.in/images/electrical-communication/2021-2022/IE-ECE-21/ECE-IE-Events-Consolidation-2021-2022.pdf</a>
16	2022	Value Added Course on " Design and Analysis of MOS circuits"	50	01.08.2022 to 06.08.2022	<a href="https://www.ritrjpm.ac.in/departments/electronics-communication-engg/electronics-communication-engg-program-organized-value-added">https://www.ritrjpm.ac.in/departments/electronics-communication-engg/electronics-communication-engg-program-organized-value-added</a>
17	2022	Value Added Course on " Embedded Systems Design Using ARM LPC2148"	50	01.08.2022 to 06.08.2022	<a href="https://www.ritrjpm.ac.in/departments/electronics-communication-engg/electronics-communication-engg-program-organized-value-added">https://www.ritrjpm.ac.in/departments/electronics-communication-engg/electronics-communication-engg-program-organized-value-added</a>

S. No	Year	Name of the workshop/ seminar/ conference	Number of Participants	Date From – To	Link to the Activity report on the website
<b>Mechanical Engineering</b>					
1	2021	Online webinar titled “Scope in Mechanical Engineering after +2 / Diploma”	50	19.06.2021	<a href="https://www.ritrjpm.ac.in/gallery/9/595_CO10PostEventreport-IWSevent.pdf">https://www.ritrjpm.ac.in/gallery/9/595_CO10PostEventreport-IWSevent.pdf</a>
2	2021	Special lecture cum lab visit on "Research trends in solar application"	33	22.10.2021	<a href="https://www.ritrjpm.ac.in/images/mechanical/ISTE/ISTE_energy_report.pdf">https://www.ritrjpm.ac.in/images/mechanical/ISTE/ISTE_energy_report.pdf</a>
3	2021	Extramural lecture series (ELS)- NT001 - Online webinar titled “SPACE ODYSSEY –A JOURNEY FROM SEASHORE TO RED PLANET”	68	19.06.2021	<a href="https://www.ritrjpm.ac.in/images/mechanical/2021-2022/NT001.pdf">https://www.ritrjpm.ac.in/images/mechanical/2021-2022/NT001.pdf</a>
4	2021	Workshop on “Home Automation using IoT”	35	20.06.2021	<a href="https://www.ritrjpm.ac.in/gallery/9/589_HomeAutomationusingIoTReport.pdf">https://www.ritrjpm.ac.in/gallery/9/589_HomeAutomationusingIoTReport.pdf</a>
5	2021	Extramural lecture series (ELS)- INT002 - Online webinar titled "USING OF GLEEBLE 3800 SIMULATOR TO SHAPE THE STRUCTURE AND PROPERTIES OF THE VARIOUS ENGINEERING MATERIALS AND VARIOUS TECHNIQUES"	45	20.07.2021	<a href="https://www.ritrjpm.ac.in/images/mechanical/2021-2022/ELS_INT_002.pdf">https://www.ritrjpm.ac.in/images/mechanical/2021-2022/ELS_INT_002.pdf</a>
6	2021	Extramural lecture series (ELS)- NT002 - Online webinar titled “Advances in Nuclear Engineering And Science”	98	21.08.2021	<a href="https://www.ritrjpm.ac.in/images/mechanical/2021-2022/NT002.pdf">https://www.ritrjpm.ac.in/images/mechanical/2021-2022/NT002.pdf</a>
7	2021	Extramural lecture series (ELS)- INT003 - Online webinar titled “Investigation of Supersonic Flows in Micro/Nano channels using the Unstructured Direct Simulation Monte Carlo(USDMC) Method”	50	24.09.2021	<a href="https://www.ritrjpm.ac.in/images/mechanical/2021-2022/ELS_INT_003.pdf">https://www.ritrjpm.ac.in/images/mechanical/2021-2022/ELS_INT_003.pdf</a>
8	2021	Webinar on “Building Chatbot Design Level-I”	60	01.10.2021	<a href="https://www.ritrjpm.ac.in/images/mechanical/Webinar_Building_Chatbot_Design.pdf">https://www.ritrjpm.ac.in/images/mechanical/Webinar_Building_Chatbot_Design.pdf</a>
9	2021	workshop-cum-competition on “Robo Seguidor”	12	20.10.2021- 21.10.2021	<a href="https://www.ritrjpm.ac.in/images/mechanical/Workshop-cum-competition_Robo-Seguidor.pdf">https://www.ritrjpm.ac.in/images/mechanical/Workshop-cum-competition_Robo-Seguidor.pdf</a>
10	2021	Extramural lecture series (ELS)- NT003 - Online webinar titled “ Latest Advances and Future Prospects of Welding Technology”	100	27.10.2021	<a href="https://www.ritrjpm.ac.in/professional-societies/ie-mech-2021-2022.php">https://www.ritrjpm.ac.in/professional-societies/ie-mech-2021-2022.php</a>
11	2021	“Hands-on workshop on Basic of Canva / Poster Design and Certificate Generation” for IE(I) members and to the students of the Department of Mechanical Engineering	30	11.11.2021	<a href="https://www.ritrjpm.ac.in/professional-societies/ie-mech-2021-2022.php">https://www.ritrjpm.ac.in/professional-societies/ie-mech-2021-2022.php</a>
12	2021	Webinar on "DRONE DESIGN & AVIATION" for IE(I) members and to the students of the Department of Mechanical Engineering	25	19.11.2021	<a href="https://www.ritrjpm.ac.in/professional-societies/ie-mech-2021-2022.php">https://www.ritrjpm.ac.in/professional-societies/ie-mech-2021-2022.php</a>
13	2021	Extramural lecture series (ELS)- INT004 - Online webinar titled "MAINTENANCE 4.0 IN WIND ENERGY INDUSTRY"	33	26.11.2021	<a href="https://www.ritrjpm.ac.in/images/mechanical/2021-2022/ELS_INT_004.pdf">https://www.ritrjpm.ac.in/images/mechanical/2021-2022/ELS_INT_004.pdf</a>

S. No	Year	Name of the workshop/ seminar/ conference	Number of Participants	Date From – To	Link to the Activity report on the website
14	2021	Workshop on “Unmanned Aerial Vehicles in Defence Sector”	23	04.12.2021	<a href="https://www.ritrijpm.ac.in/professional-societies/ie-mech-2021-2022.php">https://www.ritrijpm.ac.in/professional-societies/ie-mech-2021-2022.php</a>
15	2021	Extramural lecture series (ELS)- NT004- Online webinar titled “Research aspects and Role of Engineers in Ocean Data Collection”	50	19.12.2021	<a href="https://www.ritrijpm.ac.in/professional-societies/ie-mech-2021-2022.php">https://www.ritrijpm.ac.in/professional-societies/ie-mech-2021-2022.php</a>
16	2022	Extra Mural Lecture Series INT 005, “Industry 4.0 : Digital Transformation in Manufacturing Industry”	64	24.01.2022	<a href="https://www.ritrijpm.ac.in/images/mechanical/2021-2022/ELS_INT_005.pdf">https://www.ritrijpm.ac.in/images/mechanical/2021-2022/ELS_INT_005.pdf</a>
17	2022	Extramural lecture series (ELS)- NT005- Online webinar titled “Various Funding Opportunities In DST For Engineering Institutions”	66	06.02.2022	<a href="https://www.ritrijpm.ac.in/professional-societies/ie-mech-2021-2022.php">https://www.ritrijpm.ac.in/professional-societies/ie-mech-2021-2022.php</a>
18	2022	Extramural lecture series (ELS)- INT006 - Online webinar titled "Introduction about Geopolymers"	67	28.03.2022	<a href="https://www.ritrijpm.ac.in/images/mechanical/2021-2022/ELS_INT_006.pdf">https://www.ritrijpm.ac.in/images/mechanical/2021-2022/ELS_INT_006.pdf</a>
19	2022	Extramural Lecture Series by Indian Experts titled "Recent Trends in Metal Extraction and Recycling"	60	22.04.2022	<a href="https://www.ritrijpm.ac.in/professional-societies/ie-mech-2021-2022.php">https://www.ritrijpm.ac.in/professional-societies/ie-mech-2021-2022.php</a>
20	2022	Workshop on “IoT and its applications”	27	06.05.2022	<a href="https://www.ritrijpm.ac.in/images/mechanical/2021-2022/Workshop_IoT_applications.pdf">https://www.ritrijpm.ac.in/images/mechanical/2021-2022/Workshop_IoT_applications.pdf</a>
21	2022	Thermo-compressors to Save Energy in Multiple Effect Evaporators	58	30.05.2022	<a href="https://www.ritrijpm.ac.in/images/mechanical/2021-2022/ELS_INT_007.pdf">https://www.ritrijpm.ac.in/images/mechanical/2021-2022/ELS_INT_007.pdf</a>
22	2022	Workshop on "Email Automation using RPA (Series-I)"	13	31.05.2022	<a href="https://www.ritrijpm.ac.in/images/mechanical/2021-2022/Workshop_Email_Automation-RPA.pdf">https://www.ritrijpm.ac.in/images/mechanical/2021-2022/Workshop_Email_Automation-RPA.pdf</a>
23	2022	Green Hydrogen and its Applications	44	19.06.2022	<a href="https://www.ritrijpm.ac.in/images/mechanical/2021-2022/NT007.pdf">https://www.ritrijpm.ac.in/images/mechanical/2021-2022/NT007.pdf</a>
24	2022	Smart Applications of IoT for the Community	32	20.07.2022	<a href="https://www.ritrijpm.ac.in/images/mechanical/2021-2022/ELS_INT_008.pdf">https://www.ritrijpm.ac.in/images/mechanical/2021-2022/ELS_INT_008.pdf</a>
25	2022	Recent Trends in Sustainable Implementation of Solar Energy	85	29.08.2022	<a href="https://www.ritrijpm.ac.in/images/mechanical/2021-2022/NT008.pdf">https://www.ritrijpm.ac.in/images/mechanical/2021-2022/NT008.pdf</a>

S. No	Year	Name of the workshop/ seminar/ conference	Number of Participants	Date From – To	Link to the Activity report on the website
<b>Artificial Intelligence and Data Science</b>					
1	2022	Workshop on "Web Development"	60	15.02.2022	<a href="https://www.ritrjpm.ac.in/departments/ai-and-ds/ai-and-ds-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/ai-and-ds/ai-and-ds-program-organized-workshop---seminars.php</a>
2	2022	Workshop on "Tour of Arduino Program with IOT"	60	04.05.2022	<a href="https://www.ritrjpm.ac.in/departments/ai-and-ds/ai-and-ds-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/ai-and-ds/ai-and-ds-program-organized-workshop---seminars.php</a>
3	2022	Workshop on "Data Science"	60	15.08.2022	<a href="https://www.ritrjpm.ac.in/departments/ai-and-ds/ai-and-ds-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/ai-and-ds/ai-and-ds-program-organized-workshop---seminars.php</a>
4	2022	Seminar on Trend and Opportunities of Artificial Intelligence and Data Science	60	25.08.2022	<a href="https://www.ritrjpm.ac.in/departments/ai-and-ds/ai-and-ds-program-organized-workshop---seminars.php">https://www.ritrjpm.ac.in/departments/ai-and-ds/ai-and-ds-program-organized-workshop---seminars.php</a>
<b>Mathematics</b>					
1	2022	Online Six day FDTP on MA8351 Discrete Mathematics	60	28.06.2021 - 03.07.2021	<a href="https://www.ritrjpm.ac.in/gallery/8/557_FDTP_DM_20-21.pdf">https://www.ritrjpm.ac.in/gallery/8/557_FDTP_DM_20-21.pdf</a>
2	2022	International Conference on Analysis and Applied Mathematics2022	200	26.04.2022 - 28.04.2022	<a href="https://www.ritrjpm.ac.in/departments/maths/maths-fdp-ftp-sttp.php">https://www.ritrjpm.ac.in/departments/maths/maths-fdp-ftp-sttp.php</a>
3	2022	Workshop on Software in Mathematics	120	18.08.2022	<a href="https://www.ritrjpm.ac.in/departments/maths/maths-fdp-ftp-sttp.php">https://www.ritrjpm.ac.in/departments/maths/maths-fdp-ftp-sttp.php</a>
<b>Physics</b>					
1	2021	Studies on Our Nearest Star-Sun using Space Telescopes	225	22.07.2021	<a href="https://www.ritrjpm.ac.in/departments/physics/physics-events-organised.php">https://www.ritrjpm.ac.in/departments/physics/physics-events-organised.php</a>

S. No	Year	Name of the workshop/ seminar/ conference	Number of Participants	Date From – To	Link to the Activity report on the website
<b>Physics &amp; Chemistry</b>					
1	2021	FDP on "Synthesis, Characterization and Applications of Novel Materials"	280	02.08.2021 - 06.08.2021	<a href="https://www.ritrjpm.ac.in/departments/physics/physics-events-organised.php">https://www.ritrjpm.ac.in/departments/physics/physics-events-organised.php</a>
2	2021	Research Webinar on Drafting Impactful Research Articles, Project Proposals & Patents	235	04.09.2021	<a href="https://www.ritrjpm.ac.in/departments/physics/physics-events-organised.php">https://www.ritrjpm.ac.in/departments/physics/physics-events-organised.php</a>
3	2022	Symposium on "ADVANCED MATERIALS FOR SUSTAINABLE FUTURE"	250	08.01.2022	<a href="https://www.ritrjpm.ac.in/departments/physics/physics-events-organised.php">https://www.ritrjpm.ac.in/departments/physics/physics-events-organised.php</a>
<b>English</b>					
1	2021	Orientation Programme on BEC, IELTS and TOEFL	218	16.09.2021 - 17.09.2021	<a href="https://www.ritrjpm.ac.in/club/elite-club.php">https://www.ritrjpm.ac.in/club/elite-club.php</a>
<b>Chemistry</b>					
1	2022	Lecture on "Innovation in Chemical Sciences and IPR"		13.05.2022	<a href="https://www.ritrjpm.ac.in/departments/chemistry/chemistry-program-organized-chemistry-program-participation.php">https://www.ritrjpm.ac.in/departments/chemistry/chemistry-program-organized-chemistry-program-participation.php</a>

**COLLEGE LEVEL**



# RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University  
Accredited by NAAC & An ISO 9001: 2015 Certified Institution  
NBA Accredited UG Programs: CSE, EEE, ECE and MECH



Academic Year 2021 – 22

## REPORT ON RIT – IIC 4.0 ACTIVITIES – 2021 – 22

### Preamble:

Institution Innovation Council (IIC) of RIT was established in September, 2019. Under the guidelines of MoE Innovation Cell (MIC), various activities under the themes:

- Innovation
- Entrepreneurship
- Design Thinking
- Start-ups
- Intellectual Property Rights
- Incubation

are being planned and conducted. These programs are organized and executed through various cells of RIT including RIT Entrepreneurship Development Cell (RIT ED-Cell), RIT Intellectual Property Rights Cell (RIT IPR Cell). RIT IIC have secured 4-star rating for the academic year 2020 – 2021 (IIC 3.0)



**Entrepreneurship Development Cell in Ramco Institute of Technology (RIT ED-Cell) was constituted and inaugurated in 2014 with a vision to create entrepreneurial awareness and to inculcate entrepreneurial skills among students. From then, RIT ED-Cell conducts various awareness and motivational programme for the students and encourages them to participate in various programs outside the institution. The entrepreneurial track for the students at RIT is:**

<b>SL. NO.</b>	<b>TITLE OF THE PROGRAMME</b>	<b>TARGET STUDENTS</b>
<b>01.</b>	<b>Orientation &amp; Awareness on Entrepreneurship</b>	<b>II year students</b>
<b>02.</b>	<b>Motivational talk by Entrepreneurs</b>	<b>II, III &amp; IV year students</b>
<b>03.</b>	<b>Lecture and interaction session with Entrepreneurs</b>	<b>II, III &amp; IV year students</b>
<b>04.</b>	<b>Awareness on Intellectual Property Rights</b>	<b>III &amp; IV year students</b>
<b>05.</b>	<b>Lecture on Innovation and Product Development</b>	<b>III &amp; IV year students</b>
<b>06.</b>	<b>Interaction with Alumni Entrepreneurs</b>	<b>III &amp; IV year students</b>
<b>07.</b>	<b>Awareness on Government Support Schemes</b>	<b>III &amp; IV year students</b>
<b>08.</b>	<b>Hands on experience in Electronic Gadget servicing</b>	<b>III &amp; IV year students</b>
<b>09.</b>	<b>Lecture on Banking procedure</b>	<b>IV year students</b>

**Beyond these organized programs the students are motivated to participate in events like Business plan (B-plan) preparation, Customer Relationship Management (CRM), Business quiz, taking off business, etc. organized by other institutions and organizations.**

## CONSOLIDATED REPORT

<b>Program Number</b>	<b>Title of the Program</b>	<b>Event Date</b>
I	Hindrance faced by Entrepreneurs	22.08.2021
II	Webinar on Drafting Impactful Research Articles, Project Proposals & Patents	04.09.2021
III	Entrepreneurial Impact in Automotive Industry	22.09.2021
IV	Funding opportunity for early-stage Entrepreneurs	23.09.2021
V	Aspiring Entrepreneurs Program 2021 – Motivational live session	27.10.2021
VI	Entrepreneurship & Innovation as Career Opportunity	29.10.2021
VII	Students – Alumni Interaction – Entrepreneur Meet	15.11.2021
VIII	SAMBHAV – National Level Awareness Program on Entrepreneurship (e-NLAP)	26.11.2021
IX	National Level Webinar on “Strategies to Write Research Proposal and Funding Opportunities in India – An Overview”	08.12.2021
X	Education is Life	30.11.2021
XI	A colloquy on IP and Its Impact on Society	04.12.2021
XII	Tamil Nadu Student Innovator 2021 Awareness Programme	09.12.2021
XIII	My Story – Motivation Session by an Entrepreneur – Opportunities in Solar Field	12.12.2021
XIV	Invited Talk by Prominent Entrepreneur	15.12.2021
XV	My Story – Motivational Session by an Innovator	19.12.2021
XVI	Energy Conservation Day Quiz – Electrical	17.12.2021
XVII	e-Symposium on Building Innovation & Entrepreneurial Ecosystem Institutions	11.01.2022
XVIII	Problem Solving and Ideation Workshop using Design Thinking	05.02.2022
XIX	National Innovation Day Celebration – Mini project Expo	15.10.2021
XX	Field Exposure / Visit to Pre-Incubation Units	21.02.2022
XXI	Exposure and field visit for problem identification	21.02.2022
XXII	Orientation Session on IIC4.0 & Features - MoE's Innovation Cell	24.01.2022
XXIII	Project Exhibition – National Science Day Celebration	26.02.2022

<b>Program Number</b>	<b>Title of the Program</b>	<b>Event Date</b>
XXIV	Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & "Commercialization of Lab Technologies & Tech-Transfer	25.02.2022
XXV	Online Quiz on “National Pollution Control Day”	02.12.2021
XXVI	Achieving Problem-Solution Fit & Product-Market Fit	25.02.2022
XXVII	Motivation Camp about MSME	21.03.2022
XXVIII	Entrepreneurship is the Way	22.03.2022
XXIX	Exchange of thoughts Lecture on Finance Planning for a Start-up Business	09.04.2022
XXX	Online Quiz on “Awareness on Intellectual Property Rights”	26.04.2022
XXXI	Water Day Awareness Rally	21.03.2022
XXXII	Field Visit to an Incubation Centre	25.06.2022

## PROGRAM I

- Title** : Hindrance faced by Entrepreneurs  
**Organizer** : RIT ED Cell & RIT IIC, Department of Civil Engineering  
**Date** : 22.08.2021  
**Participation details** : 21 students and 4 faculty members  
**Resource Person** : Mr.R.Deva Murugan, Deva Design Media, Panthalkudi, Virudhunagar District  
Mr.A.Ram Prasad, Vijayarama Associates and Consulting, Cheran Managar, Vilankurichi Road, Coimbatore District

### **Objective of the Program:**

To connect alumni entrepreneurs with aspiring students of our institute to share the thoughts and to motivate the aspirants to choose the entrepreneurial track.

### **Brief Description of the Program:**

Mr.Deva shared that, an aspirant have to work on the following points to be a successful entrepreneur:

1. Ensure dual / double income
2. Learn from mistakes
3. See competitor as competitor not as enemy
4. Explore opportunities for multiple business ideas

Mr.Ram Prasad shared how he started his entrepreneurial career from his experience gained during his employment period. He stressed the following points to be a successful and a sustained entrepreneur:

1. Invest time in your business. It is as important as investing money
2. There will be always an alternative solution for a problem. Search for it
3. Creativeness is the tool that makes you to stand unique from competitors
4. Use engineering skills to be a successful entrepreneur, as most of the successful entrepreneurs are engineers

### **Brochure of the Event:**

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North Venganallur Village, Rajapalayam - 626 117, Tamilnadu.

**WORLD ENTREPRENEURS DAY**  
**Hindrance Faced by Entrepreneurs**

**Mr. A.Ram Prasad**  
Vijayarama Associates and Consulting (Land, Building)  
Cheran Managar, Vilankurichi Road, Coimbatore District

**Mr. R.Deva Murugan**  
Deva Design Media  
Panthal Kudi  
Virudhunagar District

**Platform**  
Google Meet

**Google Meet Link**  
[meet.google.com/aye-naxw-zra](https://meet.google.com/aye-naxw-zra)

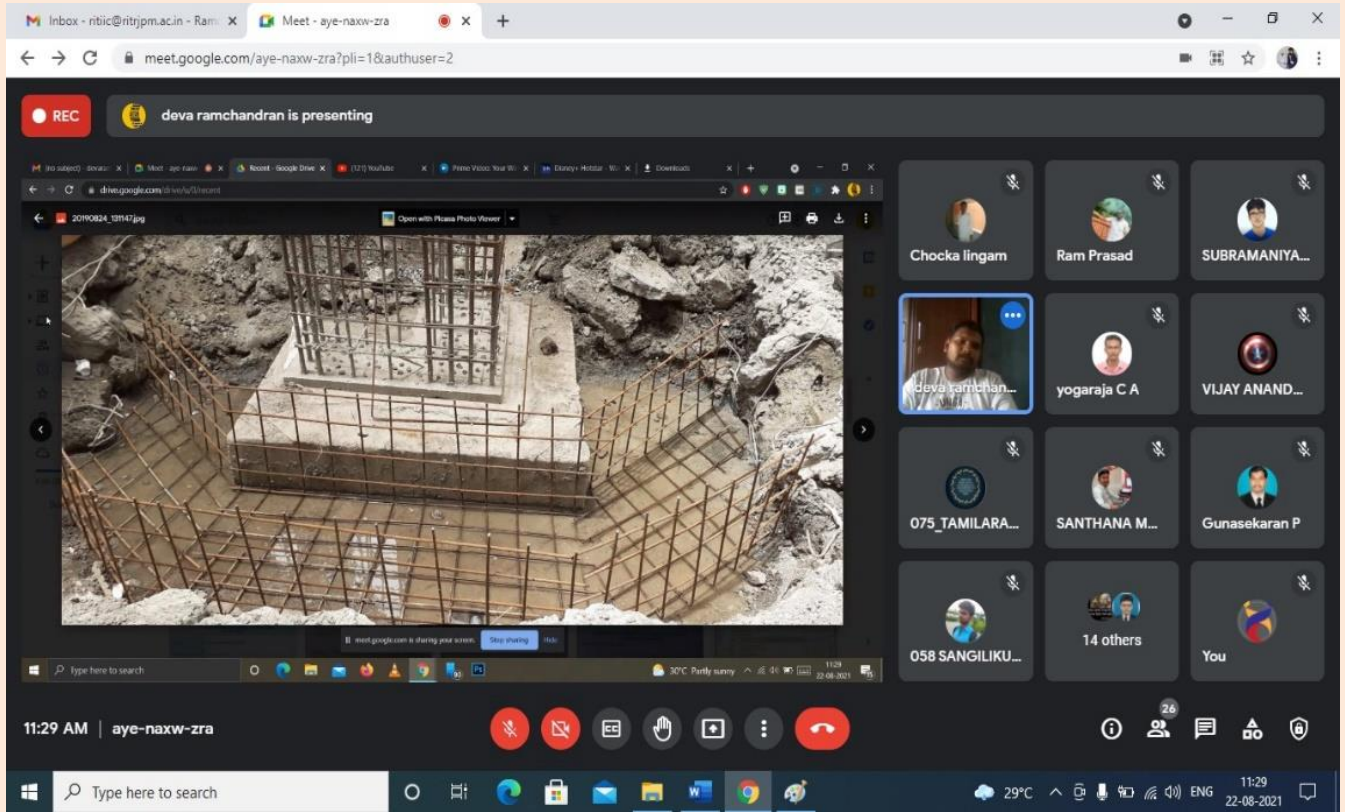
**Chief Patron**  
Dr.L.Ganesan  
Principal

**Patron**  
Dr.S.Rajakarunakaran  
Vice Principal

**Faculty Coordinator(s)**  
Mr.R.Arun Kumar AP/Mech  
Mr.T.Chockalingam AP/Civil

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## Screenshot of the Session:



## PROGRAM II

- Title** : Webinar on "Drafting Impactful Research Articles, Project Proposals & Patents"  
**Organizer** : RIT IIC & Department of Physics and Chemistry  
**Date** : 04.09.2021  
**Participation details** : 80 faculty members  
**Resource Person** : Mr.G.Prabu Ram, AP (SG)/Mech, RIT  
Mr.R.Arun Kumar, AP/Mechanical, RIT

### **Objective of the Program:**

To inculcate the patent search and drafting skill and knowledge on IP basics.

### **Brief Description of the Program:**

Mr.G.Prabu Ram, Assistant Professor (SG), Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam delivered a lecture on the topic "Patent Search & Drafting". He, first, started the presentation explaining with purpose of patent identification and specification. He explained the types of patent, patent publication and granted in online google patent website and further, discussed the difference between the patent and copy right in detail.

Mr.R.Arun Kumar, Assistant Professor, Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam delivered a lecture entitled "Need of Intellectual Property in Academia". He discussed, which product goes for patent and not patent. He also explained the brand name of the products and geographical indication. By the end of the session, he answered all the queries asked by the participants. On the whole, this session was very useful for academicians.

### **Brochure of the Event:**

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RAJAPALAYAM - 626 117

**IQAC** INTERNAL QUALITY ASSURANCE CELL  
**Departments of PHYSICS & CHEMISTRY**  
Proudly Organize a  
**INSTITUTION'S INNOVATION COUNCIL** (Ministry of Education Initiative)

**One-day Research Webinar on**  
**Drafting Impactful Research Articles,**  
**Project Proposals & Patents**  
**04.09.2021, Saturday**

Session - I: 10.00 AM	Session - II: 11.30 AM	Session - III: 2.00 PM	
 <b>ENSURING ACCEPTANCE OF YOUR NEXT RESEARCH ARTICLE</b> <b>Dr. N. Ponpandian</b> Professor & Head, Department of Nano Science & Technology, Bharathiyar University, Coimbatore.	 <b>RAMP-UP YOUR PROJECT PROPOSAL</b> <b>Dr. G. Sahaya Dennis Babu</b> Assistant Professor, Department of Physics, Chettinad College of Engineering & Technology, Karur.	 <b>NEED OF INTELLECTUAL PROPERTY IN ACADEMIA</b> <b>Er. A. Arunkumar</b> Assistant Professor, Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam.	 <b>PATENT SEARCH &amp; DRAFTING</b> <b>Er. G. Prabu ram</b> Assistant Professor (Sr.Gr.), Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam.

• Faculty, Research Scholars, UG/PG Students and Industry persons can attend.  
• E-certificates will be provided.

**FREE REGISTRATION LINK:**  
<https://tinyurl.com/ritrjpmphychemwebinar>

**CHIEF PATRON**  
**Dr. L. GANESAN**  
PRINCIPAL

**PATRON**  
**Dr. S. RAJAKARUNAKARAN**  
VICE PRINCIPAL

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For Queries, Contact us 80722 77609 / 95002 51031, karthikeyann@ritrjm.ac.in, senthilkumar@ritrjm.ac.in

# Screenshot of the Session:

The screenshot shows a Google Meet window with the URL `meet.google.com/sfm-czsu-wpe`. The presenter is PRABU RAM G. The main slide displays the text "Patent specification" at the top. Below it, a yellow arrow points left from the text "Provisional specification", and a blue arrow points right from the text "Complete specification". At the bottom of the slide is the logo for "RAMCO INSTITUTE OF TECHNOLOGY". The right-hand side of the window shows a "People" list with participants: Antony Ananiya, ARUN KUMAR R, BOBY MAITY, Dency Xavier, Dennishbabu, Dinesh Babu R, and Dipak Nath. The bottom status bar shows the time as 12:31 PM and the meeting ID as sfm-czsu-wpe.

The screenshot shows a Google Meet window with the URL `meet.google.com/sfm-czsu-wpe`. The presenter is ARUN KUMAR R. The main slide is titled "PATENTS:" and contains the following text: "Paul Hawkins and David Sherry, Roke Manor Research Ltd, England Pak vs Eng, April 2001." Below this is a "Non Tangible Patent" section with a blue circular stamp that says "PATENTED" and an image of a cricket match. The source is `https://gfycaat.com/hardleanbronco-cricket`. The "Tangible Patent" section features an image of a cricket field with a "ra Phone" advertisement. The source is `https://giphy.com/gifs/field-cricket-swoagger-zrS3WH7CMq4AA`. At the bottom of the slide, it says "2014" and "R.Arun Kumar, AP/Mech & M.Santhana Maruthu Pandian AP/Mech, RIT". The right-hand side of the window shows a "People" list with participants: ARUN KUMAR R, Dr. Elumalai Set..., Mallikarjuna Re..., Prabha V, Dinesh Babu R, Dr.P. THIRURA..., Srinivasan R, 73 others, and You. The bottom status bar shows the time as 2:30 PM and the meeting ID as sfm-czsu-wpe.

### PROGRAM III

**Title** : Entrepreneurial Impact in Automotive Industry  
**Organizer** : RIT IIC & RIT ED Cell  
**Date** : 22.09.2021  
**Participation details** : 60 students  
**Resource Person** : Mr.Ashhar Ahmed Shaikh, Director, Skill shark Edutech Pvt. Ltd., Hyderabad

#### **Objective of the Program:**

- To motivate & learn the new concepts in E-Mobility
- To Encourage and discuss the opportunity of Entrepreneurs in E-Mobility
- To address the requirement of industry in E-Mobility

#### **Brief Description of the Program:**

Mr.Ashhar started his session with the importance of Project based learning approach in learning the concepts. He also added, instead of completely studying all subjects in all semesters, can make students to make projects and which makes to identify the subjects to be learnt. He described the position of Automotive industry in India which is leading the development for the Indian economy. → He also listed out the challenges of Automotive Industries as ∅ Depletion of Fossil Fuel ∅ Increasing cost of fuel ∅ Pollution – Pollution chocking in NCR → India's Ministry of Earth sciences published a research paper in 2018 attributing almost 41% air pollution in Delhi due to vehicle emission ∅ Environmental Impact – Increasing in usage of Individual vehicle (Car) ∅ Strict Emissions Based on the above challenges and requirement of the customer, the automotive industry is slowly turning towards Electrification.

#### **Brochure of the Event:**

**RAMCO INSTITUTE OF TECHNOLOGY**  
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**IN ASSOCIATING WITH**  
INSTITUTION'S INNOVATION COUNCIL  
**SKILL SHARK**

**RIT ENTREPRENEURSHIP DEVELOPMENT CELL (RIT EDC)**

Presents online webinar on  
**E-MOBILITY AND ENTREPRENEURSHIP**

22 September, 2021  
02.00PM to 03.00 PM

Resource Person  
**Mr. Ashhar Ahmed Shaikh,**  
Director of Skill Development  
SkillShark EduTech

PLATFORM  
**GOOGLE MEET**

meet.google.com/xfw-bhkc-rvw

Moderator  
Mr.L.Karthikeyan, AP/Mech

STUDENT COORDINATOR  
M. NALLIRAJ MADHAVAN, IV/MECH

FACULTY COORDINATOR  
Mr. G.PRABU RAM,  
AP(SG)/MECH

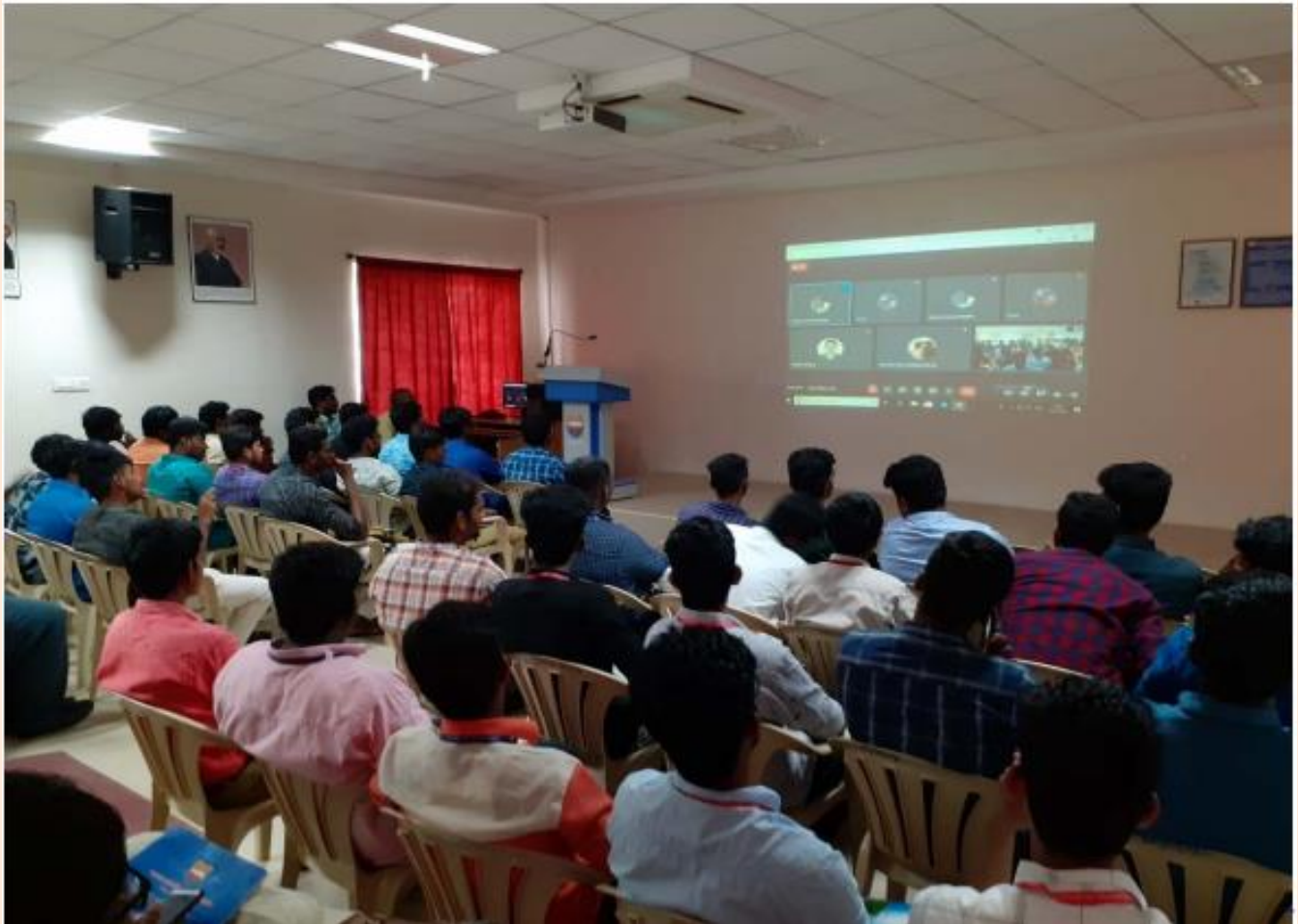
CONVENER  
Mr. R.Arun Kumar,  
AP/MECH

PATRON  
Dr. S. RAJAKARUNAKARAN, HOD/MECH  
VICE PRINCIPAL

CHIEF PATRON  
Dr. L. GANESAN,  
PRINCIPAL

www.ramco.ac.in | rit@ritram.ac.in | /ramco\_rajapalayam | /Ramco Rajapalayam

**Screenshot of the Session:**



## PROGRAM IV

**Title** : Funding opportunity for early-stage Entrepreneurs  
**Organizer** : RIT IIC & RIT ED Cell  
**Date** : 23.09.2021  
**Participation details** : 30 students  
**Resource Person** : Mr.G.Prabu ram, AP(SG)/Mech and IIC Innovation Ambassador

### **Objective of the Program:**

- To learn the financing model for entrepreneurs and outline its main stages.
- To Encourage and discuss the role of venture capitalists (VCs) and how they finance entrepreneurs.
- To address about the angel investors and how they finance entrepreneurs

### **Brief Description of the Program:**

Mr.G.Prabu Ram, shared how securing funding for a venture as a student entrepreneur can be tricky work. Innovators often have to look far and wide to find funding opportunities that are the right fit for the scope and stage of their venture. It can be particularly difficult to know where to start within the ever-changing fields of science and technology innovation. While the future impacts of the pandemic are still largely unknown, early-stage entrepreneurs can still find the funding to move forward with their ventures. By understanding the key economic stakeholders in their ecosystem and preparing for anticipated shifts in the entrepreneurial landscape, innovators can best position themselves for success.

### **Brochure of the Event:**

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Department of Mechanical Engineering  
In Association with  
RIT ENTREPRENEURSHIP DEVELOPMENT CELL (RIT EDC)  
RIT - INSTITUTION'S INNOVATION COUNCIL (RIT - IIC)  
Presents lecture on

**Funding opportunity for early stage  
Entrepreneurs**

Resource Person  
**Mr.G.PRABU RAM**  
Assistant Professor (Sr.Gr),  
Recognized Innovation Ambassador (IIC),  
Department EDC In-Charge  
Department of Mechanical Engineering

Mechanical Engineering  
Seminar Hall

23 September, 2021  
03.00PM to 04.00 PM

Mr.M.Santhana Maruthu Pandian, AP/Mech  
Moderator

Mr.R.Shyamsundar, III Year/MECH  
Mr.M.Moodhesh, III Year/MECH  
Student Coordinators

Mr.R.Arun Kumar, AP/Mech  
RIT-IC Coordinator

Dr.S.Rejekarunakorn  
Vice Principal  
Patron

Dr.L.Ganesan  
Principal  
Chief Patron

**Screenshot of the Session:**



## PROGRAM V

**Title** : Aspiring Entrepreneurs Program 2021 – Motivational live session  
**Organizer** : RIT IIC & RIT ED Cell  
**Date** : 27.10.2021  
**Participation details** : 27 students and 3 faculty members  
**Resource Person** : Dr.Shyam Prasad Rajasekaran, Co-Founder, Vegroute Agri Tech Pvt. Ltd.,  
Dr.Subramanian, Founder & CEO, MIND BIZ  
Flt. Lt.Sridhar Chakravarthi Mulakaluri, Leadership Coach and Start-Up Mentor

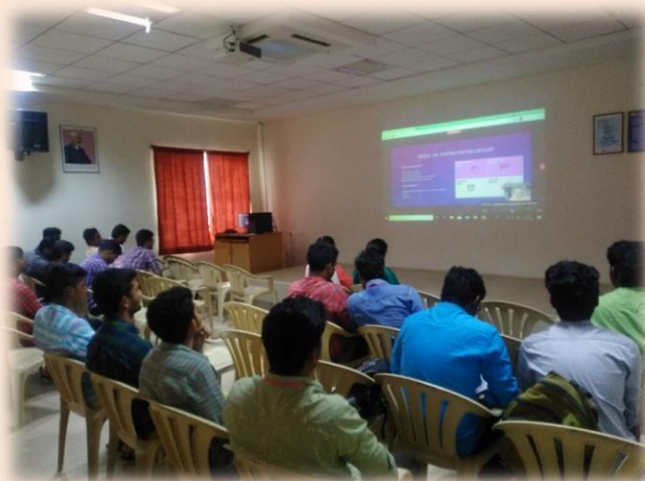
### **Objective of the Program:**

- ✓ To orient the students on entrepreneurship and its importance
- ✓ To motivate the students towards entrepreneurial track
- ✓ To make the students to understand financial support provided for entrepreneurship by various agencies

### **Brief Description of the Program:**

The session inaugurated with a welcome note by Mr.K.Meher Chaitanya, Senior Manager – Corporate Initiatives, ICT Academy. Further, Mr.B.Ragahava Srinivasan, Head – Corporate & Government Initiatives, ICT Academy gave the presidential and motivational talk to the students. Mr.K.Meher, who moderated the session, handed over the session to Dr.Shyam Prasad Rajasekaran, Co-Founder, Vegroute Agri Tech Pvt. Ltd., Chennai. Dr.Shyam Prasad Rajasekaran, Co-Founder, Vegroute Agri Tech Pvt. Ltd., Chennai, presented the students about the business he does and briefed his entrepreneurial experience. He also shared the characteristics and etiquette required for a successful entrepreneur. His speech inspired the students and motivated them. The second session was taken by Dr.R.Subramanian, Founder & CEO, MIND BIZ in which he inspired the students by presenting the role and importance of entrepreneurship in present scenario. The last session was taken by Flt. Lt.Sridhar Chakravarthi Mulakaluri, Leadership Coach and Start-Up Mentor. He presented the various schemes given through Ministry of Micro, Small and Medium Enterprises (MSME) under the title “Start-up in India – From Idea to Business Model. He also delivered how to identify the ideas proposed can be a successful business model through Business Model Canvas (BMC). Finally, he concluded with a presentation in which the step-by-step procedure to start a new venture was explained. The session was concluded at 1:15PM after which the Q & A session was moderated.

### **Screenshot of the Session:**





**Brochure of the Event:**




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## GET AHEAD! GET STARTED!!



**ASPIRING ENTREPRENEURS PROGRAM 2021**

ENTREPRENEURSHIP AWARENESS CAMPAIGN

CLUSTER: **VIRUDHUNAGAR** (Batch 41)  
 27 OCT 2021 (Wednesday) - 09:30 AM - 01:30 PM

**EXPERTS SESSION BY**

 <p><b>Dr Shyam Prashad Rajasekaran</b>  <small>Co-Founder              Vegroute Agri Tech Pvt. Ltd.</small></p>	 <p><b>Dr R Subramanian</b>  <small>Founder &amp; CEO              MIND BIZ</small></p>	 <p><b>Ft.Lt. Sridhar Chakravarthi Mulakaluri</b>  <small>Leadership Coach              and Start-up mentor</small></p>	 <p><b>B Raghava Srinivasan</b>  <small>Head - Corporate &amp; Government Initiatives              ICT Academy</small></p>
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**MODERATOR:**



**Meher Chaitanya K**  
Senior Manager - Corporate Initiatives  
 ICT Academy

**NOTE:**

- The link to participate in the session will be sent your registered mail id.
- This Program is Exclusive for registered participants of AEP2021.

[www.ictacademy.in/aep2021](http://www.ictacademy.in/aep2021)

## PROGRAM VI

**Title** : Entrepreneurship & Innovation as Career Opportunity  
**Organizer** : RIT IIC & RIT ED Cell  
**Date** : 29.10.2021  
**Participation details** : 26 students and 3 faculty members  
**Resource Person** : Mr.T.Jayanandhan, Founder & CEO, Tesla Minds, Chennai

### **Objective of the Program:**

To enhance knowledge and kindle the skills of the young minds aspiring to be successful entrepreneurs.

### **Brief Description of the Program:**

RIT IIC and ED Cell of Ramco Institute of Technology organized on session on “Entrepreneurship & Innovation as Career Opportunity” on 29.10.2021 from 2.00 PM to 3.00 PM at EEE Seminar Hall, Ramco Institute of Technology, Rajapalayam. The event started with welcome address by Mr.R.Arunkumar, AP/MECH and who gave a brief introduction about the session. Mr.T.Jayanandhan, Founder & CEO, Tesla Minds, Chennai was the resource person for this session. He shared his experience and interacts with the participants. From this interactive session participants got clear idea about how to register a company and what documents they should prepare for registration purpose. The session was backed up from the participants end and with an interactive live Question and Answers session. The vote of thanks was delivered by Mr.P.Gunasekaran, AP/ECE and the participants gave their feedback and asked to conduct more events towards on Startup development. Totally 21 students from various departments and two faculty members were participated in this interactive session.

### **Brochure of the Event:**



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**RIT INSTITUTION'S INNOVATION COUNCIL  
&  
RIT ENTREPRENEURSHIP DEVELOPMENT CELL**

**SESSION ON  
“Entrepreneurship & Innovation as Career  
Opportunity”**

**Date:** 29.10.2021  
**Time:** 2.00 PM to 3.00 PM  
**Venue:** EEE Seminar Hall

**Chief Guest:**  
**Mr.T.Jayanandhan,**  
Founder & CEO,  
Tesla Minds,  
Chennai.

**Screenshot of the Session:**



## PROGRAM VII

**Title** : Students – Alumni Interaction – Entrepreneur Meet  
**Organizer** : Alumni Association, Department of Mechanical Engineering  
**Date** : 15.11.2021  
**Participation details** : 21 students and 2 faculty members  
**Resource Person** : Mr.A.Arun Shenbagaraj, Co-Founder TN 76 (Batch 2016 – 20)

### **Objective of the Program:**

- To make the aspiring entrepreneurial mindset students to interact with Alumni entrepreneur for motivating them towards entrepreneurship

### **Brief Description of the Program:**

*“Student – Alumni Interaction meet”* – RIT/MECH/AM/21-22/01 – Student- Entrepreneur meet was held by the department of Mechanical engineering on 15.11.21 (Monday). Initially this alumni interaction event is planned on 12.11.2021, then this event is postponed to 15.11.2021 due to natural calamities. The prime objective of the program is to share Entrepreneurial skills, scope of startup business for beginners and build strong relationship between the students and alumni. He motivated the EDC student members regarding Start up by own concept and progression towards Management studies after Engineering degree. At the end of the session there was an

### **Brochure of the Event:**

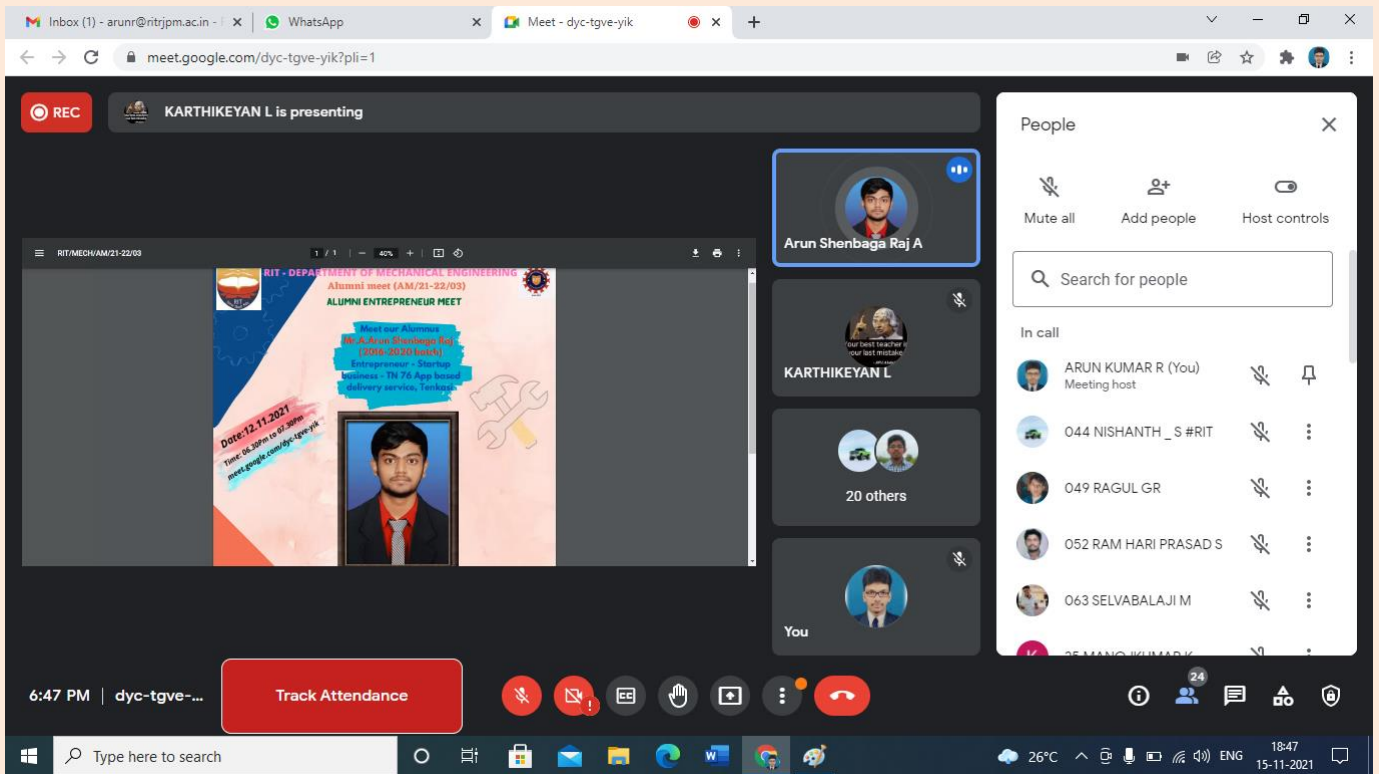
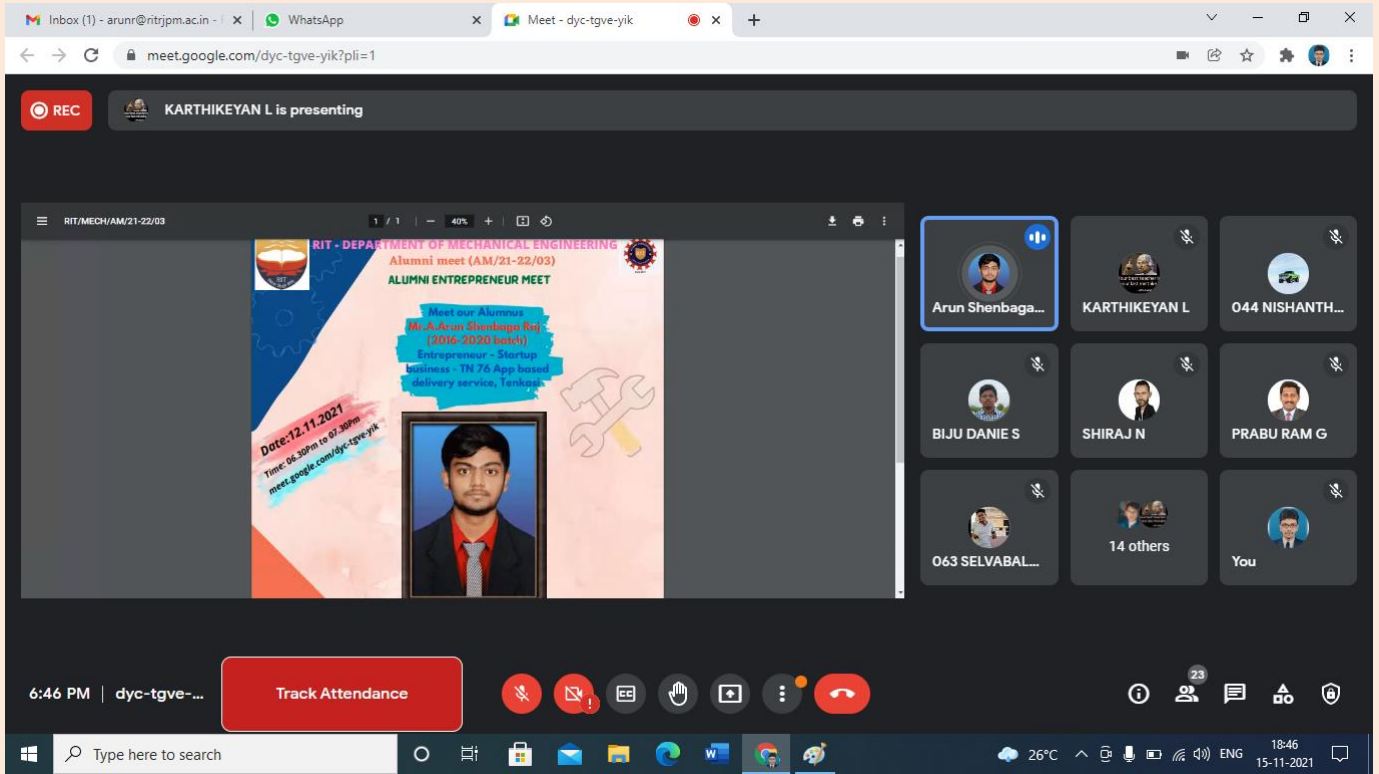
**RIT - DEPARTMENT OF MECHANICAL ENGINEERING**  
**Alumni meet (AM/21-22/03)**  
**ALUMNI ENTREPRENEUR MEET**

Meet our Alumnus  
**Mr. A. Arun Shenbaga Raj**  
(2016-2020 batch)  
Entrepreneur - Startup  
business - TN 76 App based  
delivery service, Tenkasi

**Date: 12.11.2021**  
Time: 06.30pm to 07.30pm  
[meet.google.com/dyc-tgve-yik](https://meet.google.com/dyc-tgve-yik)

**About Alumnus:**  
A. Arun Shenbaga Raj, a Mechanical Engineering graduate from Ramco Institute of Technology, Rajapalayam in the year 2020. Currently pursuing MBA in the department of 'Innovation Entrepreneurship & Venture Development' and 'Human Resource Management' at SRM Institute of Science and Technology, Kattankulathur. Founded and executed a startup 'TN76-App based Food Delivery Service' from 2020 to 2021, which was then converted to 'Fudpal Food Delivery Service' in the year 2021 and in operation at Tenkasi District. Founded and Executing 'ASR Solutions' and have undergone many website and mobile app development projects.

# Screenshot of the Session:



## PROGRAM VIII

<b>Title</b>	: SAMBHAV – National Level Awareness Program on Entrepreneurship (e-NLAP)
<b>Organizer</b>	: RIT IIC & RIT ED Cell
<b>Date</b>	: 26.11.2021
<b>Participation details</b>	: 121 students and 11 faculty members
<b>Resource Person</b>	: Mr.Simiyon, Assistant Director, Branch MSME Development Institute Tirunelveli Mr.S.Uma Maheshwaran, Proprietor, Modern India Products, Rajapalayam

### **Objective of the Program:**

- ✓ To give awareness and benefits to the students on MSME schemes to start a business
- ✓ To motivate the students towards entrepreneurship to start a SME units through interaction with successful beneficiary of MSME scheme.

### **Brief Description of the Program:**

Mr.Simiyon, Assistant Director, Branch MSME Development Institute, Government of India, Ministry of MSME, Tirunelveli welcomed the participants who joined through two Google Meet links. Followed by the welcome address, Dr.S.Rajakarunakaran, Vice Principal and Professor In-charge, RIT Entrepreneurship Development Cell briefed the ED Cell activities carried out at Ramco Institute of Technology and encouraged the participants to make use of this session. The two hours live session begun with playing the Video 1 – Winner, Motivational film. After playing the video, Mr.Simiyon explained the content of the video in regional language with a live case study. He explained the Prime Minister Employment Generation Program (PMEGP) and the benefits of the scheme and the eligibility for applying under the scheme. Video 2 and 3 were played following video 1 which was also explained by Mr.Simiyon including the schemes and its benefits. Video 2 (Schemes of Ministry of Micro, Small and Medium Enterprises, Govt. of India) included the schemes like:

1. National Manufacturing Competitiveness Programme (NMCP)
2. Credit Guarantee Trust Fund for Micro & Small Enterprises (CGTMSE)
3. Coir Vikas Yojana (CVY)
4. A Scheme for Promoting Innovation, Rural Industry & Entrepreneurship (ASPIRE)
5. Micro & Small Enterprises Cluster Development (MSE-CDP)

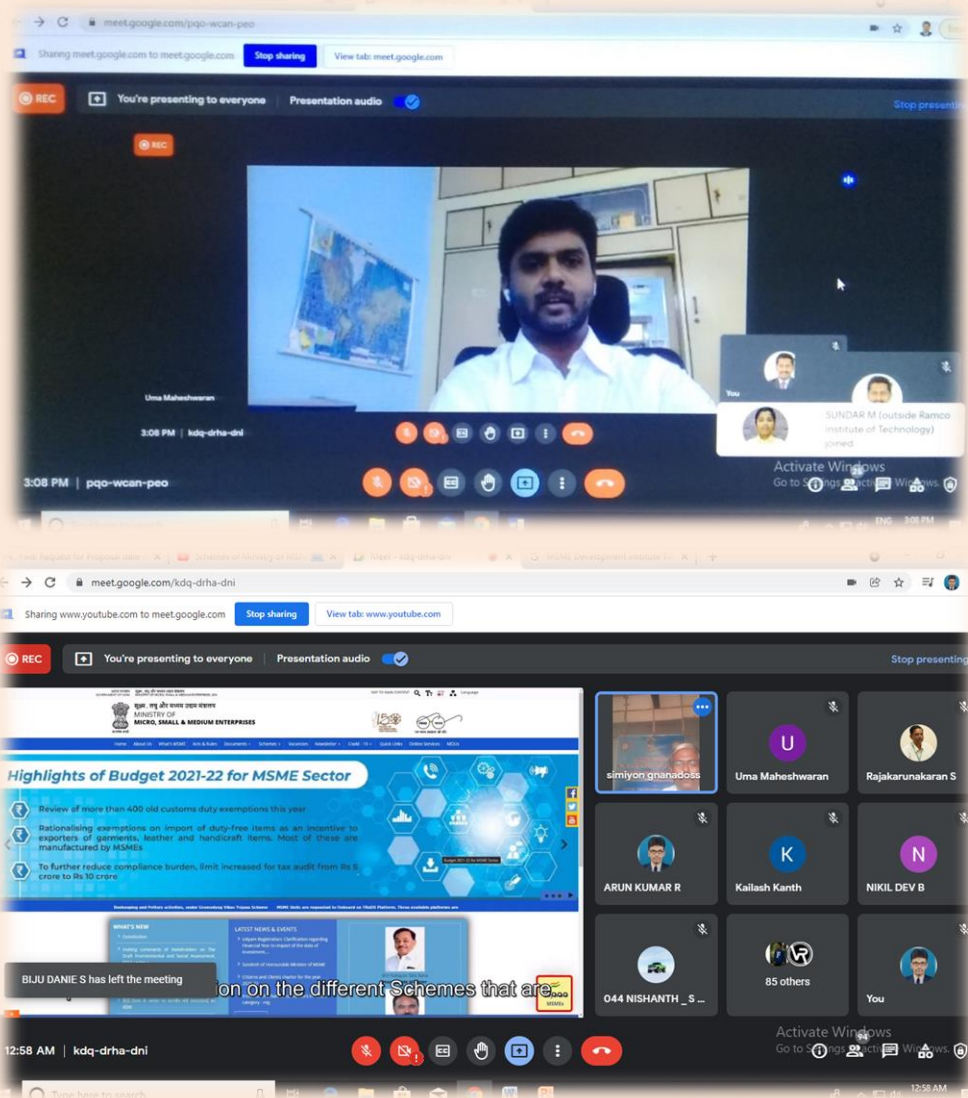
In video 3, various success stories of beneficiaries of MSME schemes were played to motivate the students to make use of the schemes.

The session 2 was a live motivational talk by regional beneficiary of MSME scheme. Mr.S.Uma Maheshwaran, Proprietor, Modern India Products, Rajapalayam who involves in export business shared his experience and benefits he gained through MSME scheme. He is a beneficiary of Credit Guarantee Trust Fund for Micro & Small Enterprises (CGTMSE) through which he received a loan of Rs.80,00,000/- . He also suggested the participants to identify the market before starting the business. He added that this will help the candidate in claiming the loan in an ease way. At the end of session 2, the forum was open to Q&A session, in which the participants raised couple of questions to Mr.S.Uma Maheshwaran and Mr.Simiyon. The same was clarified by the resource persons. At the end Mr.G.Prabu ram, AP(SG)/Mechanical and ED-Cell In-charge of Department of Mechanical Engineering expressed the gratitude through vote of thanks followed by Mr.Simiyon too delivered the vote of thanks representing MSME. The entire session was moderated by Mr.R.Arun Kumar, AP/Mech and Convener, RIT-ED Cell.

**Brochure of the Event:**



**Screenshot of the Session:**



## PROGRAM IX

- Title** : National Level Webinar on “Strategies to Write Research Proposal and Funding Opportunities in India – An Overview”
- Organizer** : RIT Library, RIT RC, NDLI Club & RIT IIC
- Date** : 08.12.2021
- Participation details** : 146
- Resource Person** : **Dr. T. KUBENDRAN, M.Sc., M.Phil., Ph.D.** , Scientist - C , High Altitude Regional Centre, **Zoological Survey of India**, Ministry of Environment, Forest & Climate Change, Government of India

### **Objective of the Program:**

To inculcate Strategies to Write Research Proposal and Funding Opportunities in India

### **Brief Description of the Program:**

The programme was started at 04.00 pm through Google meet platform. Welcome speech given by Mrs. K.D. Subhasini, Digital Library Incharge, .R.Chandran, Librarian and addressed importance of webinar. In continuation Student Coordinator Mr.S.Rahul, introduced the resource person. The Session on “Strategies to Write Research Proposal and Funding Opportunities in India” – An Overview” was delivered by **Dr. T. KUBENDRAN**, Scientist - C , High Altitude Regional Centre, **Zoological Survey of India**, Ministry of Environment, Forest & Climate Change, Government of India. The session was informative and importance about writing research proposal in government bodies, eligibility and guidelines. He gave an insight to project structure, study protocols and listed national funding agencies in India, schemes, start-up grants, UGC Faculty Fellowship and student fellowships. The session followed by questions and answers, participants interacted with the resource persons. He gave the informative answers.

### **Brochure of the Event:**

The brochure is for a webinar organized by Ramco Institute of Technology. It features the institute's logo and name at the top, along with accreditation details. The event is titled "National Level Webinar on 'Strategies to Write a Research Proposal and Funding Opportunities in India - An Overview'". The resource person is Dr. T. Kubendran, Scientist - C, from the High Altitude Regional Centre, Zoological Survey of India. The date is 08.12.2021 and the time is 04.00 p.m - 05.00 p.m. The mode is Google Meet. Registration is free, with a last date of 07th Dec 2021. Contact information for the institute is provided at the bottom.

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Rajapalayam - 626117, Tamil Nadu, India.  
**RIT Library NDLI Club**  
*RIT-Institution's Innovation Council & Research Council*  
**Jointly Organizes**  
**National Level Webinar on "Strategies to Write a  
Research Proposal and Funding Opportunities in India -  
An Overview"**

**Date : 08.12.2021** **Time : 04.00 p.m - 05.00 p.m**

**Dr. T. Kubendran**  
Scientist - C  
High Altitude Regional Centre  
Zoological Survey of India,  
Ministry of Environment, Forest & Climate Change  
Government of India  
Himachal Pradesh, India

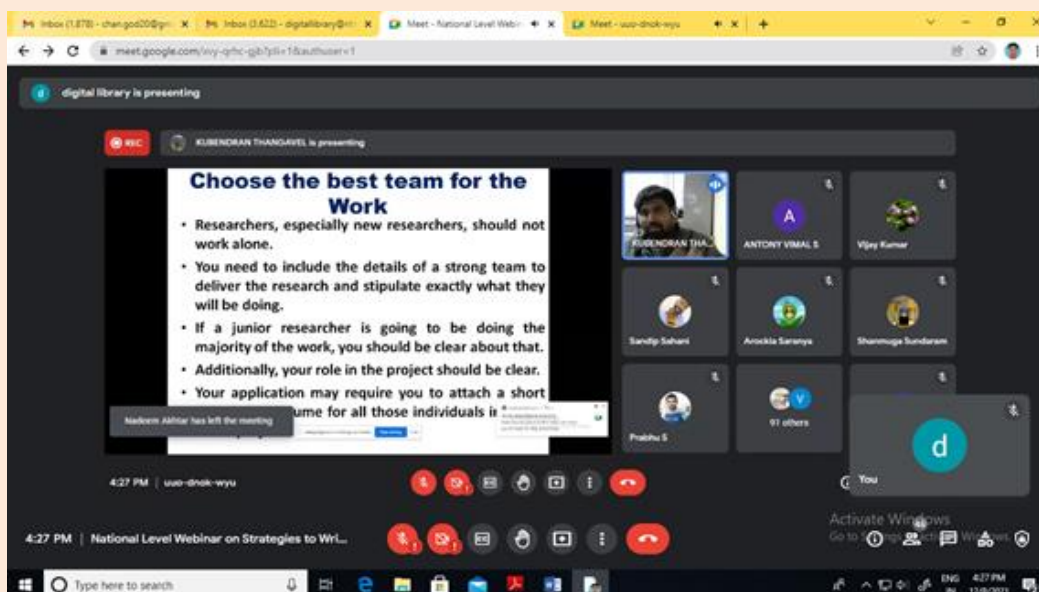
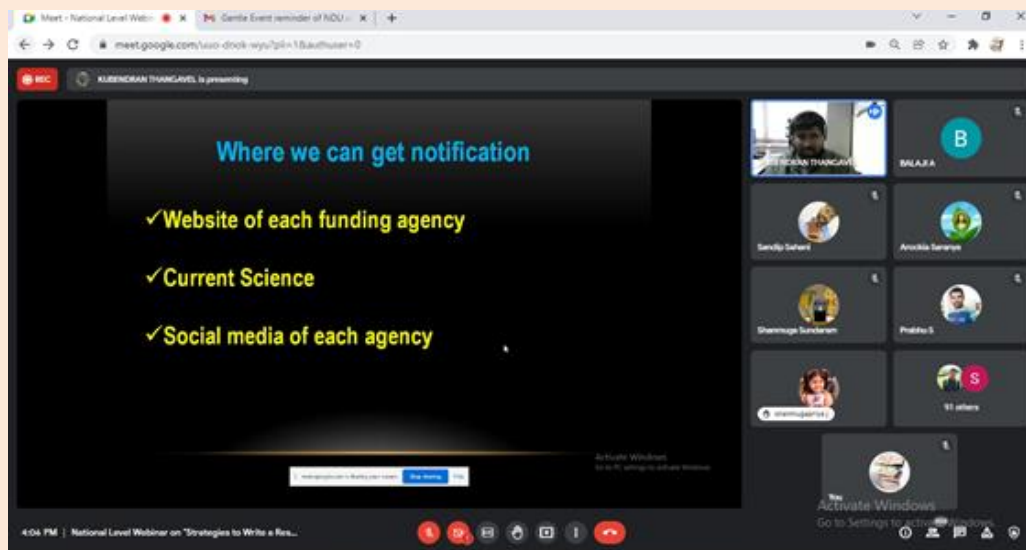
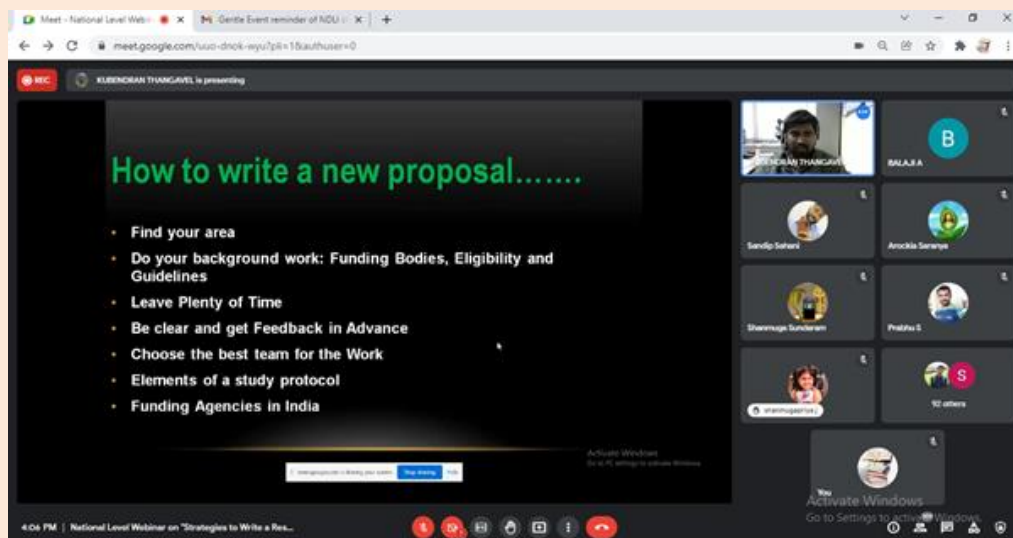
Mode : Google Meet

Free Registration and Participation  
Last date of Registration on 07th Dec 2021 - <https://bit.ly/3CRp6aS>  
E-certificate to all the participants

Chief Patron: Dr. L. Ganesan  
Patron: Dr. S. Rajakumarakar  
RC Coordinator: Dr. S. Kannan  
Principal: Mr. R. Chandran, Librarian(Sr)  
Vice-Principal: Mr. P. Vijayanankar, III/ECE  
Faculty Coordinators: Dr. V. Sivakumar, ASP, Mech  
Student Coordinators: Mr. S. Rahul, III/Mech  
Mr. R. Arun Kumar, AP, Mech  
Mr. M. Maadhesh, III/Mech

04563-233400 www.rmitgm.ac.in RITRajapalayam ramco.raipalayam

## Screenshot of the Session:



## PROGRAM X

**Title** : Education is Life  
**Organizer** : RIT - IIC, NSO, NSS & YRC  
**Date** : 30.11.2021  
**Participation details** : 58  
**Resource Person** : Dr.P.Thiruramanathan, AP/Physics, RIT

### **Brief Description of the Program:**

In connection with the National education day celebrations, special lecture on “Education is Life” was organized on 30.11.2021. This programme is jointly organized by the RIT - IIC, NSO, NSS & YRC units our college at class room. Dr.P.Thiruramanathan, AP/Physics, RIT acted as a resource person of this event. He explained the role of education and its impact over the human behavior its importance in technopreneurship. Totally 58 students attended this programme and benefited. This program is coordinated by Dr.G.Veeramanai, Physical Director, RIT.

### **Photos of the Session:**



## PROGRAM XI

**Title** : A colloquy on IP and Its Impact on Society  
**Organizer** : RIT – IIC & RIT Mechanizo  
**Date** : 04.12.2021  
**Participation details** : 83  
**Resource Person** : Mr.G.Prabu Ram, AP(SG)/Mech & Mr.R.Arun Kumar, AP/Mech

### **Objective of the Program:**

To give awareness on various IPR including Patent, Copyright, Design protection, Trademark & Trade secrets and orient our B.E Mechanical Engineering students towards IPR.

### **Brief Description of the Program:**

The session's resource persons were Mr.G.Prabu Ram and Mr.R.Arun Kumar, who covered the nature of IPR and its requirements, as well as the following topics in depth.

- Patents
- Copyrights
- Design registration
- Geographical Indications
- Trade Mark
- Trade Secrets

The session was over with student interaction, during which the students actively discussed their IPR concerns.

### **Brochure of the Event:**

The brochure is for an event titled "IP AND ITS IMPACT ON SOCIETY" presented by the Department of Mechanical Engineering at Ramco Institute of Technology. It is in association with the Institution's Innovation Council (IIC) and RIT - Mechanizo. The event is a colloquy on Intellectual Property, held on 04th December 2021 from 02.00 PM to 03.30 PM at RIT MECH - Seminar Hall. The resource persons are Mr.G.Prabu Ram, Mr.M.Santhana Maruthu Pandian, and Mr.R.Arun Kumar. The student co-ordinators are Mr.M.Thoiesh Nandha, IV/Mech and Mr.M.Maadhes, III/Mech. The faculty co-ordinator is Mr.L.Karthikeyan, Assistant Professor/Mech. The brochure also includes the logos of the organizing bodies and social media handles for the event.

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North Venganallur Village, Rajapalayam - 626 117, Tamilnadu

**DEPARTMENT OF MECHANICAL ENGINEERING**

In association with  
"INSTITUTION'S INNOVATION COUNCIL (IIC)"  
&  
RIT - MECHANIZO

Presents  
A Colloquy on  
**"IP AND ITS IMPACT ON SOCIETY"**

**INTELLECTUAL PROPERTY**

**Event Date & Time:**  
04th December 2021  
02.00 PM to 03.30 PM

**Venue**  
RIT MECH - Seminar Hall

**MR.G.PRABU RAM**  
ASSISTANT PROFESSOR (SG)/MECH

**MR.M.SANTHANA MARUTHU PANDIAN**  
ASSISTANT PROFESSOR/MECH

**MR.R.ARUN KUMAR**  
ASSISTANT PROFESSOR/MECH

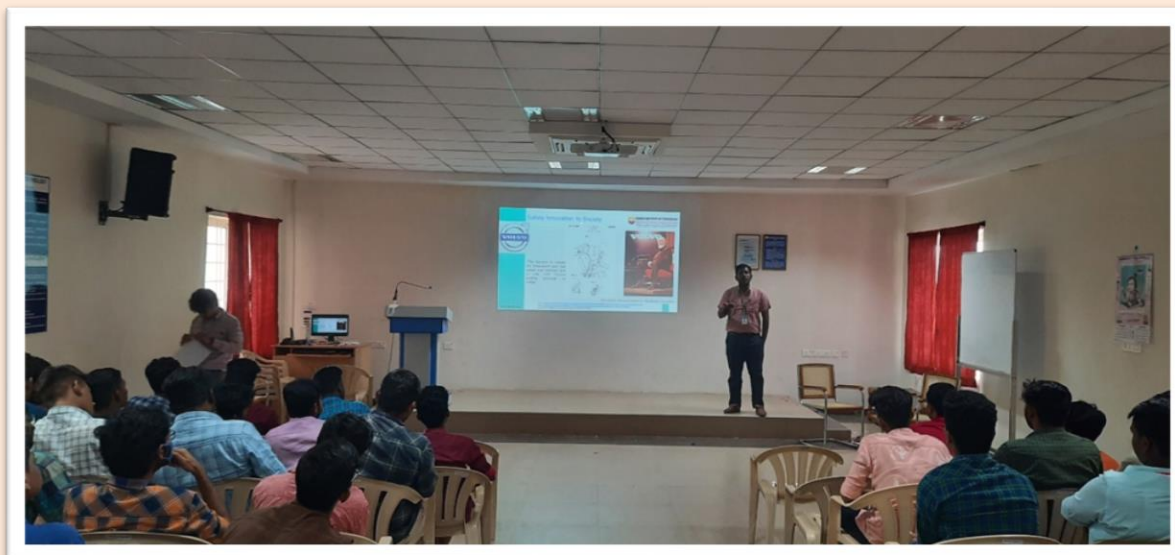
**STUDENT CO-ORDINATORS**  
Mr.M.THIOESH NANDHA, IV/MECH  
Mr.M.MAADHESH, III/MECH

**FACULTY CO-ORDINATOR**  
MR.L.KARTHIKEYAN  
ASSISTANT PROFESSOR/MECH

**INTELLECTUAL**

[/mechritipm](#) [/mechritipm](#) [/ramco\\_mech](#) [/RIT MECHANICAL](#)

**Photos of the Session:**



## PROGRAM XII

**Title** : Tamil Nadu Student Innovator 2021 Awareness Programme  
**Organizer** : RIT – IIC & RIT ED Cell  
**Date** : 09.12.2021  
**Participation details** : 56 students and 4 faculty members  
**Resource Person** : Mr.M.Siva Baarathi, Field Coordinator, AURCT-IEDP Hub

### **Objective of the Program:**

- To create an awareness about Tamil Nadu Student Innovator 2021 and network creation, Idea generation and also provide Hands-on Training for TNSI 2021 registration.

### **Brief Description of the Program:**

**Mr.M.Siva Baarathi**, Field Coordinator, AURCT-IEDP Hub Anna University Regional Campus Tirunelveli delivered an awareness talk on TNSI 2021 and he insisted on the importance of Entrepreneurship and innovation among the students and also mention the One Million Project Ideas, various schemes provided for new generation entrepreneurs, and Startups and the benefits of Tamil Nadu Student Innovator 2021. He focused on network creation, Idea generation, innovation, and 5 categories of design thinking and Business Model Canvas. Both sessions were activity-based and the students were asked to write a challenge statement and present their ideas. They were asked to do mind mapping, make Prototype, test the prototype and implement the product and he explained the steps taken by the EDII-TN and its Hub to create the innovative ecosystem across the state. Provide Hands-on Training for Fill the Registration form for Tamil Nadu Student Innovator 2021.

### **Brochure of the Event:**

**RAMCO INSTITUTE OF TECHNOLOGY**  
Approved by AICTE, New Delhi & Affiliated to Anna University  
Accredited by NAAC & An ISO 9001: 2015 Certified Institution  
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

**In Association with**  
**AURCT – IEDP HUB**  
**ANNA UNIVERSITY REGIONAL CAMPUS,**  
**TIRUNELVELI**  
**organizes**

**AWARENESS PROGRAMME ON TAMIL NADU STUDENT INNOVATOR COMPETITION 2021**  
**(TNSI 2021)**

**Resource Person:**  
**Mr.M.Siva Baarathi**  
**Field Coordinator**  
**AURCT IEDP Hub**  
**Tirunelveli**

**Civil Seminar Hall**  
**09.12.2021**  
**11 AM to 12:30 PM**

**tns**  
DESIGN DEVELOP DELIVER

**Photos of the Session:**



### PROGRAM XIII

**Title** : My Story – Motivation Session by an Entrepreneur – Opportunities in Solar Field

**Organizer** : Solar Energy Laboratory, RIT – IIC & RIT ED Cell

**Date** : 12.12.2021

**Participation details** : 36 students and 2 faculty members

**Resource Person** : Mr.N.Raghupathi Muthu, Consultant, Sree Minniyal Ragu Enterprises, Sivakasi

#### **Objective of the Program:**

- To motivate the students on entrepreneurship
- To educate the students on opportunities available in solar field

#### **Brief Description of the Program:**

The session after welcome address was handed over to the resource person which was started with a questionnaire what is the need for solar energy at present. The students answered as follows:

- The available fossil fuels are depleting at a faster rate which creates a huge gap between demand and supply chain of energy
- The present consumption pattern of fossil fuels not only depletes the resources but also becomes a threat for environment through various forms of pollution

Later the resource person explained the applications of solar energy as follows:

- Solar Thermal Applications*
- Solar Photo Voltaic Applications*
- Business Opportunities*
- Low-cost investment business*
- High-cost investment business*

#### **Brochure of the Event:**

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DEPARTMENT OF MECHANICAL ENGINEERING

**RIT INSTITUTION'S INNOVATION COUNCIL  
(RIT - IIC)**

ORGANIZES WEBINAR  
ON

**MY STORY - MOTIVATIONAL  
SESSION BY AN ENTREPRENEUR  
- OPPORTUNITIES IN SOLAR  
FIELD**

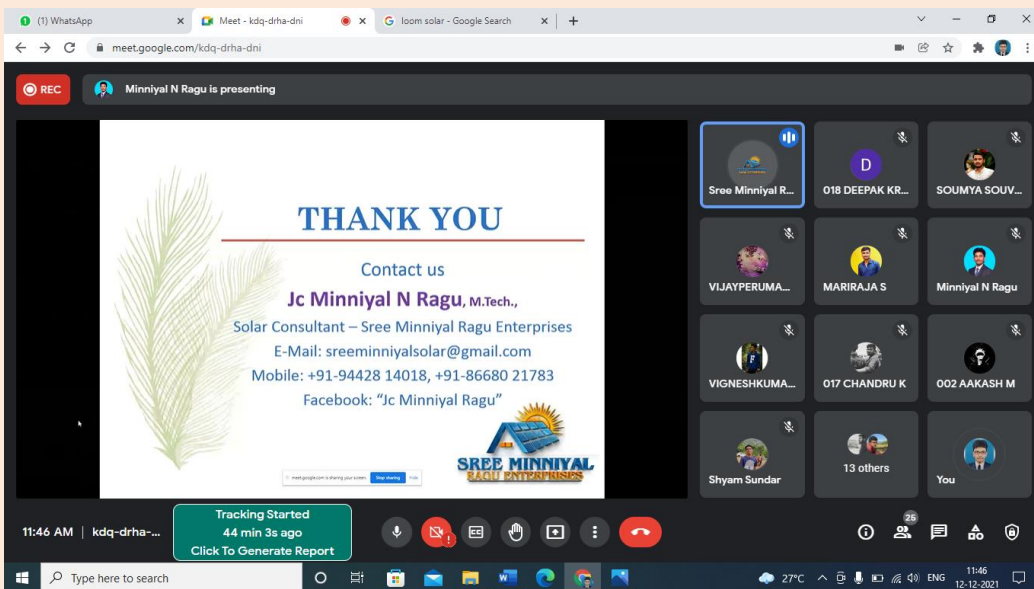
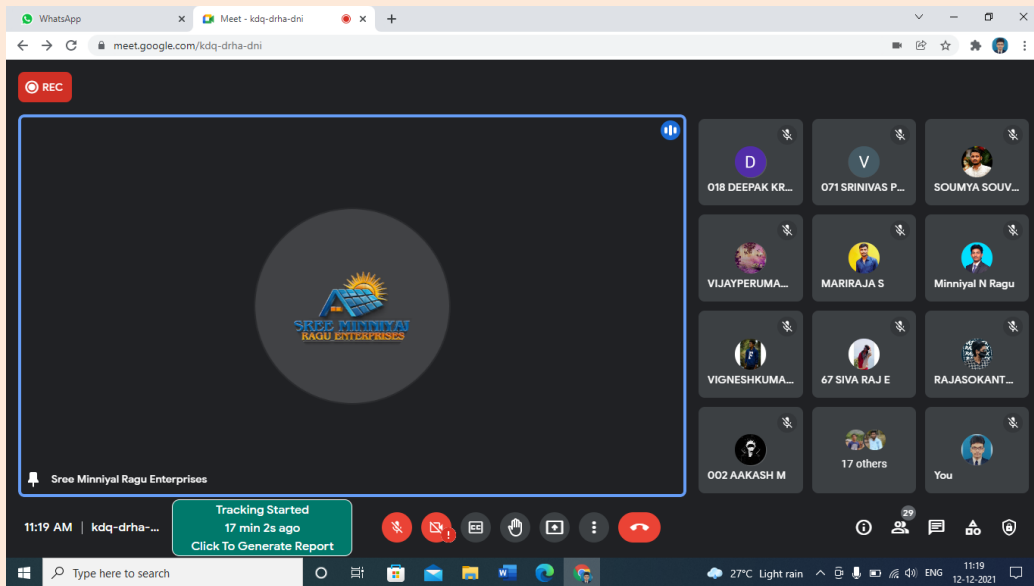
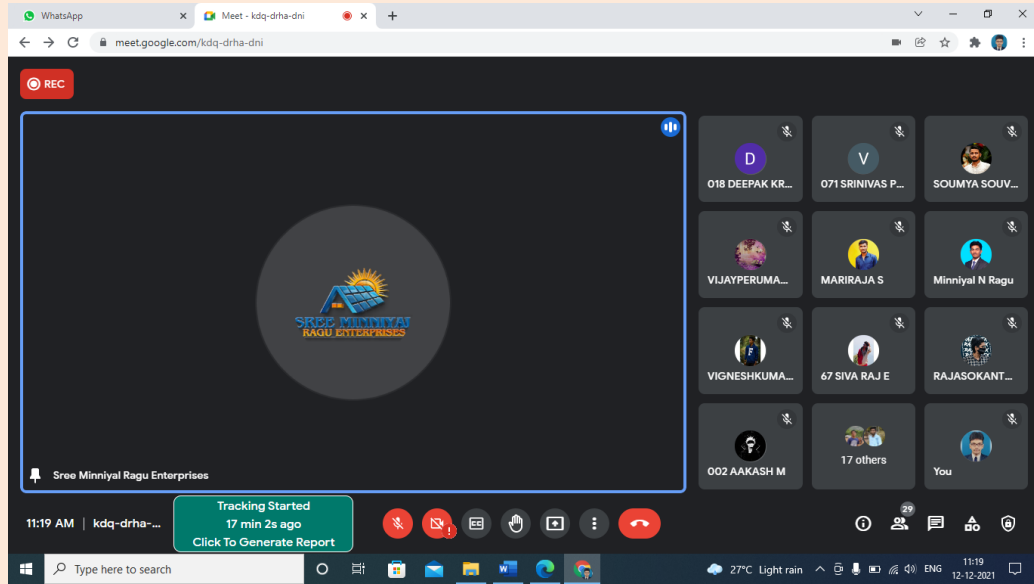
A FUTURISTIC APPROACH

Dec 12th, 2021 (Sunday)  
11:00AM to 12:00PM  
[meet.google.com/kdq-drha-dni](https://meet.google.com/kdq-drha-dni)

**RESOURCE PERSON**  
Mr.Raghupathi Muthu  
Founder & Director  
Minniyl Pvt. Ltd.  
Virudhunagar

**Program Coordinator**  
Mr.R.Arun Kumar,  
AP/Mech

# Screenshot of the Session:



## PROGRAM XIV

**Title** : Invited Talk by Prominent Entrepreneur  
**Organizer** : RIT – IIC & RIT ED Cell  
**Date** : 15.12.2021  
**Participation details** : 83 students and 4 faculty members  
**Resource Person** : Dr .Karthickkumar Chinnaraj, Founder & MD of 5K Car Care Pvt. Ltd.

### **Objective of the Program:**

- Scope of startup in Auto-service industry
- Aware of impacts of present industrial process
- Aware of impacts of present industrial process
- Scope of startup in Auto-service industry

### **Brief Description of the Program:**

“Student – Invited Talk by prominent Entrepreneur” – The session on “Design thinking, Critical thinking and Innovative design” was held by the department of Mechanical engineering in association with IIC & ISTE Student chapter on 15.12.21 (Wednesday) 10.30 AM to 12.30 PM. The prime objectives of this programme is to share entrepreneurial scope and thoughts, create awareness of ethics as entrepreneur, awareness of present industrial demands and scope of entrepreneur career in Auto-service industries. The resource person clearly explains the following focuses:

- Creative thinking skills & its types, Ways to be creative thinker, Importance of problem solving, Open mindedness

At the end of the session there was an interactive session, where our students actively interacted with the resource person.

### **Brochure of the Event:**

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An ISO 9001:2015 Certified and NAAC Accredited Institution  
NBA Accredited UG Programs: CSE, EEE, ECE and MECH  
North Venganallur Village, Rajapalayam - 626 117, Tamilnadu

**DEPARTMENT OF MECHANICAL ENGINEERING**  
In association with

**INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE)**  
&  
**INSTITUTION'S INNOVATION COUNCIL (IIC)**

**WORKSHOP ON DESIGN THINKING, CRITICAL THINKING AND INNOVATION DESIGN**

**DECEMBER 15, 2021**  
**10.00 AM TO 11.00 AM**

**RESOURCE PERSON:**  
**DR. KARTHICKKUMAR CHINNARAJ,**  
ENTREPRENEUR | MOTIVATIONAL SPEAKER | LIFE-SKILL TRAINER |  
SALESFORCE ENERGIZER  
FOUNDER & MANAGING DIRECTOR OF 5K CAR CARE PVT LTD

**FACULTY CO-ORDINATORS**  
Mr.L.Karthikeyan  
Assistant Professor/MECH  
Mr.R.Arun Kumar  
Assistant Professor/Mech

**CONVENER**  
Dr. P. Suresh Kumar,  
ASSOCIATE PROFESSOR/MECH

**STUDENT CO-ORDINATORS**  
Mr.M.THODJESH NANDHA, IV/MECH  
Mr.M.MAADHESH, III/MECH

**PATRON**  
Dr. S. Rajakarunakaran,  
VICE PRINCIPAL/HOD MECH

**CHIEF PATRON**  
Dr. L. Ganesan,  
PRINCIPAL

[/mechritjpm](#) [/mechritjpm](#) [/ramco\\_mech](#) [/RIT MECHANICAL](#)

**Photos of the Session:**



## PROGRAM XV

**Title** : My Story – Motivational Session by an Innovator  
**Organizer** : RIT – IIC & RIT ED Cell  
**Date** : 19.12.2021  
**Participation details** : 32 students and 3 faculty members  
**Resource Person** : Mr.A.Aravind, CEO & Founder, Tamizhan Foods & Innovators, Sivakasi

### **Objective of the Program:**

- To motivate the students about innovation as a career opportunity.

### **Brief Description of the Program:**

Mr T.Chockalingam, Assistant Professor, Civil Engineering welcomed the gathering and introduced the resource person **Mr M.Aravind**, CEO & Founder, Tamizhan Foods & Innovators, Sivakasi. Mr M Aravind narrated the importance of innovation during college life and he elaborated how innovation brought change to his lifestyle. He also explained the path that he travelled so far. He delineated the products of his firm and explained the business strategies followed to survive the race in the competitive world. At the end of the session, he interacted with the participants and answered their queries. Finally, the session was concluded by expressing the vote of thanks.

### **Brochure of the Event:**



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**Department of Civil Engineering**

**In association with**  
**RIT Institution's Innovation Council (RIT – IIC)**  
**organizes**

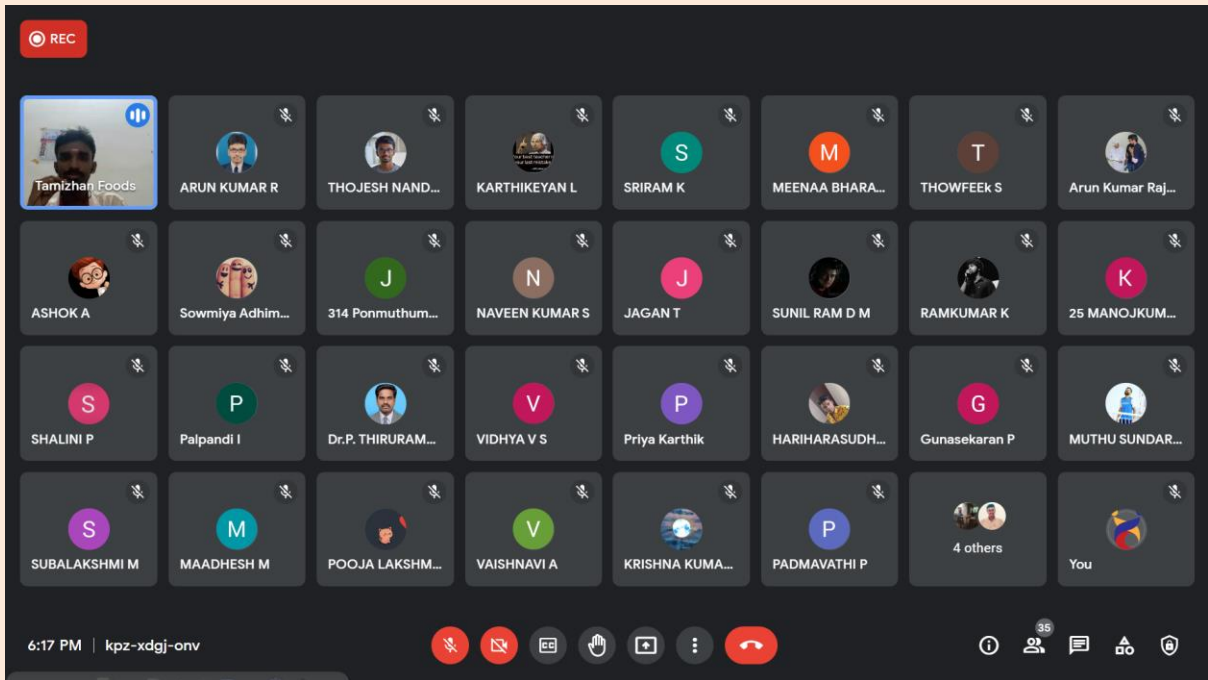
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**MY STORY MOTIVATIONAL SESSION BY AN INNOVATOR**

**Resource Person:**  
**Mr.A.Aravind**  
**CEO & Founder**  
**Tamizhan Foods & Innovators**  
**Sivakasi**

 **Google Meet Platform**  
 **19.12.2021**  
 **6:00 PM to 7:00 PM**

## Screenshot of the Session:



## PROGRAM XVI

- Title** : Energy Conservation Day Quiz – Electrical  
**Organizer** : Department of EEE, RIT ISTE & RIT – IIC  
**Date** : 17.12.2021  
**Participation details** : 32 students  
**Jury Members** : Mr.D.Karthick Prabhu, AP(SG)/EEE and Mrs.Sivapriya, AP/EEE  
**Brochure of the Event:**



**RAMCO INSTITUTE OF TECHNOLOGY**  
**RAJAPALAYAM - 626 117**  
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An ISO 9001: 2015 Certified and NAAC Accredited Institution  
NBA Accredited Programs: CSE, EEE, ECE, MECH

**Energy Conservation Quality Circle (ECQC)**  
**RIT - ISTE, RIT- IIC**  
jointly Organises

**Energy Conservation Contest**  
**Student Presentation**  
on  
**Electrical Energy Conservation in their Home**

**Important Dates:**  
*Last date of Registration: 08.12.2021*  
*Presentation/ Event Date: 17.12.2021*

Registration Link : <https://forms.gle/Nh98tz8oA1Nf1eSC6>

### **Photos of Presentation:**



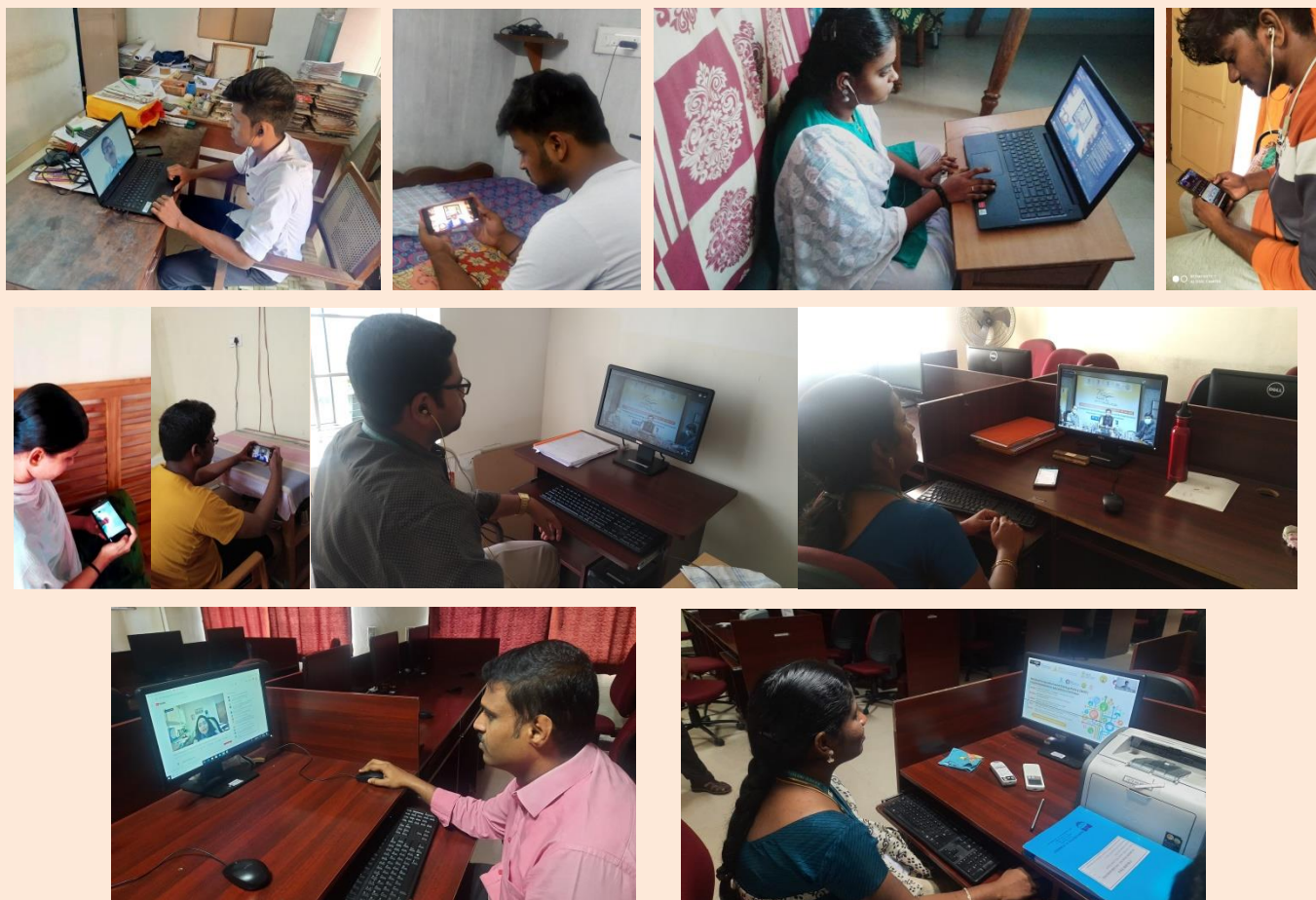
## PROGRAM XVII

**Title** : e-Symposium on Building Innovation & Entrepreneurial Ecosystem Institutions  
**Organizer** : MIC  
**Date** : 11.01.2022  
**Participation details** : 35 students and 7 faculty members  
**Resource Person** : Shri Harshit Rathore, Co-Founder & CTO, Naccarc Robotics  
Shri Vikash Mittersain, Founder & Managing Director, Nazara Technologies  
Shri Shrikant Badve, Managing Director, Badve Industries

### **Brief Description of the Program:**

E-Symposium on Building Innovation and Entrepreneurial Ecosystem in Educational Institutions to be held on **11<sup>th</sup> to 12<sup>th</sup> Jan 2022** as part of the 'National Innovation Week', Azadi Ka Amrit Mahotsav (AKAM) celebration from 10<sup>th</sup> – 16<sup>th</sup> Jan 2022. The Ministry of Education, AICTE, and Ministry of Commerce and Industry (DPIIT) in collaboration with the Ministry of Culture, Govt. of India are jointly organizing it. The innovation week will highlight various initiatives undertaken and discussions on various thrust areas related to promoting innovation and entrepreneurship in our country. An agenda plan and poster are attached for your reference.

### **Photos of the Session:**



## PROGRAM XVIII

**Title** : Problem Solving and Ideation Workshop using Design Thinking

**Organizer** : RIT – IIC & RIT ED Cell

**Date** : 05.02.2022

**Participation details** : 23 students and 4 faculty members

**Resource Person** : Mr.P.Gunasekaran, AP/ECE

### **Objective of the Program:**

- To immerse students into the world of innovation as a systematic process of tackling relevant business and/or social problems

### **Brief Description of the Program:**

To realize the vision and mission of IIC in our campus, The Institution Innovation council of Ramco Institute of Technology, Rajapalayam organized a webinar “Session on Problem Solving and Ideation Workshop using Design Thinking” on 05-02-2022 from 11:00 a.m. to 12:00 p.m. The programme was envisaged at inculcating the right attitude of innovation among the budding innovators. Mr.P.Gunasekaran, Assistant Professor/ECE, MIC Innovation Ambassador delivered his speech on “Design Thinking”. He explained different ways of creative problem solving with the students. He explained that Design thinking refers to the cognitive, strategic and practical processes by which design concepts are developed. Further he said that many of the key concepts and aspects of design thinking have been identified through studies, across different design domains, of design cognition and design activity in both laboratory and natural contexts. Then he shared his views about Design Thinking with the students. He emphasized the importance of Design Thinking in today’s highly competitive business environment. Upon putting an end to his online session, he answered the questions raised by students ably and interestingly.

### **Brochure of the Event:**

The brochure features the Ramco Institute of Technology logo on the left and a stylized human figure logo on the right. The text is centered and reads: "RAMCO INSTITUTE OF TECHNOLOGY", "Approved by AICTE, New Delhi & Affiliated to Anna University", "Accredited by NAAC & An ISO 9001:2015 Certified Institution", "NBA Accredited UG Programs: CSE, EEE, ECE and MECH", "RIT Institution's Innovation Council", "Organize a session on", "Problem Solving and Ideation Workshop using Design Thinking". Below this is a circular diagram with five stages: EMPATHIZE (teal), DEFINE (dark blue), IDEATE (yellow), PROTOTYPE (light blue), and TEST (red). At the bottom left, it says "Online Platform: Google Meet" with the link "meet.google.com/uwy-sbvm-jvt". At the bottom right, it says "Date: 05.02.2022 (Saturday)" and "Time: 11.00 am to 12.00 pm" with a calendar icon.

## Screenshot of the Session:

The screenshot shows a Google Meet interface. The main content area displays a slide titled "EMPATHIZE" with the following text: "To identify or understand what others see, feel and experience." Below this, there are three orange buttons labeled "Observe", "Listen", and "Engage" separated by a plus sign and an ampersand. Further down, it says "In order to relate to the problems that others might be facing. You have to understand a problem before you can solve it." The right-hand side of the screen shows a grid of participant avatars, including Gunasekaran P, KALIDAS P, RAJA LAKSHMI L, DIVYA SHREE R, SHAKTHI SREE MA, MATHESHWARAN N, yogaraja C A, and "You". The bottom toolbar contains icons for mute, video, chat, and other meeting controls. The time is 11:23 AM.

The screenshot shows a Google Meet interface. The main content area displays a slide titled "IDEATE: Brainstorm Solutions..." with four quadrants: "Paper based solutions" (with a paper icon), "Million dollar solutions" (with a lightbulb icon), "Social Relationships Solutions" (with a group of people icon), and "Technology based solutions" (with a smartphone icon). The right-hand side of the screen shows a grid of participant avatars, including Gunasekaran P, yogaraja C A, KALIDAS P, sharmilakumari s, VAISHNAVI S, SHAKTHI SREE MA, MATHESHWARAN N, and "You". The bottom toolbar contains icons for mute, video, chat, and other meeting controls. The time is 11:35 AM.

## PROGRAM XIX

**Title** : National Innovation Day Celebration – Mini project Expo  
**Organizer** : Department of EEE and RIT – IIC  
**Date** : 15.10.2021  
**Participation details** : 52 students  
**Jury Members** : Dr.S.Periyanayagi, Prof. & Head / ECE  
Dr.P.Suresh Kumar, ASP/Mech

### **Objective of the Program:**

To nurture innovation among students by conducting Mini Project exhibition as a part of National Innovation Day Celebrations

### **Brief Description of the Program:**

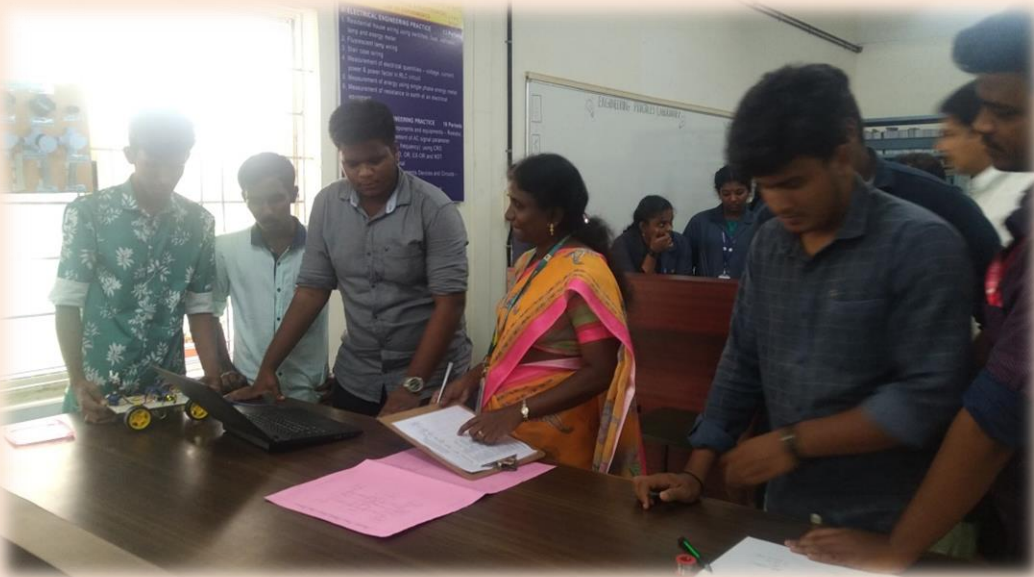
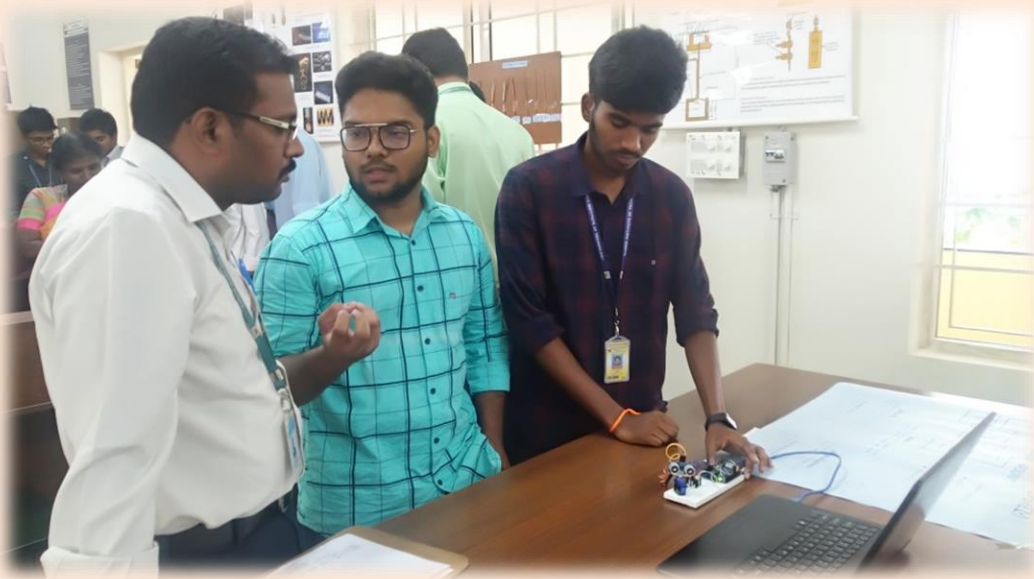
19 Mini project batches comprising 52 students have actively participated in the National Innovation Day Celebrations and exhibited their ideas in the form of Mini projects. Dr. S. Periyanayagi, HoD/ECE and Dr. P. Suresh Kumar, ASP/Mech are the resource persons who evaluated the students' projects, Mr. D. Karthik Prabhu, AP(SG)/EEE is the Faculty Coordinator for organizing this event.

### **Brochure of the Event:**



### **Photos of the expo contest:**





## PROGRAM XX

- Title** : Field Exposure / Visit to Pre-Incubation Units  
**Organizer** : RIT ED Cell and RIT – IIC  
**Date** : 21.02.2022  
**Participation details** : 29 students and 6 faculty members  
**Resource Person** : Dr.J.Deny, President IICE – KARE, Kalasalingam TBI Manager (Sponsored by Ministry of MSME, New Delhi), Chief Programme Coordinator, DST-NIMAT Project, Innovation and Entrepreneurship Development Centre (Sponsored by DST, New Delhi) Kalasalingam Academy of Research and Education

### **Objective of the Program:**

- To inculcate the importance of Incubation unit and know about the funding opportunities available from incubation unit.

### **Brief Description of the Program:**

The visit started with a brief introduction and necessity of pre incubation visit given by Mr.R.Arun Kumar, AP/Mech and Convener, RIT-IIC. The visit was further started by brief presentation by Dr.J.Deny. Resource person started with the introduction about incubation unit with their Vision and Mission with objective. He started the lecture with Deny Paradigm training provided to the students: I year – Basic Introduction about Entrepreneurship II year – Skill Based Training, EAC (Entrepreneurship Awareness Camp) III year – Design Thinking workshop, Product development, Technology Readiness Level (TRL) IV Year – IPR Knowledge sharing, Show case the product in EXPO, Registration of company. Then he continued the lecture with the different funding received from the various Government organizations and various schemes available for incubation and funding opportunity: Innovation and Entrepreneurship Development Centre sponsored by DST – NIMAT Kalasalingam TBI Sponsored by Ministry of MSME, New Delhi ACIC-Kalasalingam Innovation Foundation

### **Brochure of the Event:**

**RAMCO INSTITUTE OF TECHNOLOGY**  
North Vengonallur, Rajapalayam 626117  
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NBA Accredited UG Programs: CSE,EEE,ECE and MECH

**RIT-IIC & RIT EDC CELL**  
jointly organizes

**Visit to Pre-Incubation Unit**  
Innovation and Entrepreneurship Development Center(IEDC)  
Kalasalingam Academy of Research and Education

Sponsored by  
**ACIC-KALASALINGAM INNOVATION FOUNDATION**  
NTI Aayog

21.02.2022 (MONDAY)  
IST 10:00 AM TO 12:30 PM

KARE IEDP INCUBATION UNIT

**KALASALINGAM**  
ACADEMY OF RESEARCH AND EDUCATION  
RESEARCH ON KNOWLEDGE ENTREPRENEURSHIP  
Established in 1982 under the Government of India. Sponsored by MSME, New Delhi

**FACULTY COORDINATOR**  
Mr. G.PRABU RAM,  
Assistant Professor (SG)/MECH  
MoE certified IIC Innovation Ambassador  
Department EDC In-charge

[ritrpm.ac.in](http://ritrpm.ac.in) [rit@ritrpm.ac.in](mailto:rit@ritrpm.ac.in) [@RITRajapalayam](https://www.facebook.com/RITRajapalayam/)

**Photos of the visit:**



## PROGRAM XXI

**Title** : Exposure and field visit for problem identification

**Organizer** : Department of EEE and RIT – IIC

**Date** : 21.02.2022

**Participation details** : 61 students and 2 faculty members

**Industry Name** : Sri Ramco Spinners, Rajapalayam

### **Objective of the Program:**

- To motivate the students to visit the industry in order to get an exposure about its overall functioning and to nurture their innovative talents to think for solution to the real-life problems faced during this Field / Industrial visit.

### **Brief Description of the Program:**

61 students have undergone Field / Industrial visit at Sri Ramco Spinners, Rajapalayam. Sri Ramco Spinners based in Rajapalayam, Tamil Nadu is a division of Ramco Industries Limited, and produces world class high quality combed cotton yarn of 60s, 30s, 20s and 16s count for export to Europe, South East Asia and Japan. This spinning mill has a total capacity of 43,296 spindles. Students are exposed to various units and the overall functioning of the plant. During the visit, students interacted with the industry people and the brainstorming sessions helpful for them to imagine and think innovatively to create solutions for real time problems.

### **Visit Photographs:**



## PROGRAM XXII

**Title** : “Orientation Session on IIC4.0 & Features - MoE's Innovation Cell”  
**Organizer** : RIT – IIC  
**Date** : 24.01.2022  
**Participation details** : 34 students and 17 faculty members  
**Resource Person** : Mr.Dipan Sahu, Asst. Innovation Director · MoE's Innovation Cell, AICTE

### **Objective of the Program:**

- To give awareness about Features of IIC 4.0, various programs and schemes for IIC institutions, Incentives and measurement of performance IIC Institutions and Integrated policy approach for maximum impact - NISP+IIC+ARIIA.

### **Brief Description of the Program:**

**Speaker started explaining the activities carried out in IIC 3.0.** He showcased the statistics of IIC Institutions, student enrollment towards IIC and Rating of IIC Institutions across country. He discussed about the weightages and scoring system of the activities such as IIC Calendar Driven-50%, Self-driven-30%, MIC driven-10%, and Celebration Day activity – 10%. A classification system for IIC Institutions is announced in IIC 4.0 with two level of classification. Then he explained about the portal system for Institution, Innovation Ambassador, Mentor-Mentee and ATL Linkages. Finally, he invited to join IIC 4.0 WhatsApp group created for presidents and conveners for quick information.

### **Brochure and Photograph of the Session:**



## PROGRAM XXIII

- Title** : Project Exhibition – National Science Day Celebration  
**Organizer** : RIT – IIC and RIT Science Club  
**Date** : 26.02.2022  
**Participation details** : 180 students and 30 faculty members  
**Jury Member** : Dr.K.Basari Kodi, Prof. & Head / Mathematics Department  
**Objective of the Program:**

To inculcate technical skills, project-based learning, hands on experience & to encourage team work.

### **Brief Description of the Program:**

Institution Innovation Council (IIC) and Science Club organized a project exhibition on 26.02.22 for commemorating National Science Day 2022. The theme of Science Day is 'Integrated Approach in Science and Technology for a Sustainable Future'. First-year Engineering students of Ramco Institute of Technology, Rajapalayam presented various projects on the theme. RIT feels proud and congratulates the students who actively participated and presented the projects.

### **Photograph of the project exhibition:**



## PROGRAM XXIV

- Title** : Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & "Commercialization of Lab Technologies & Tech-Transfer"
- Organizer** : RIT – IIC & RIT ED Cell
- Date** : 25.02.2022
- Participation details** : 57 students and 3 faculty members
- Resource Person** : Dr.Ashutosh Pastor, Manager, Start-up Incubation at Foundation for Innovation and Technology Transfer, IIT-D

### **Objective of the Program:**

- To give a sensitization on Technology Readiness Level (TRL)
- To inculcate the need of Technology Readiness Level (TRL) while doing a project and the methods to take the innovation to next stage of TRL for enabling the commercialization to serve the societal problems and needs

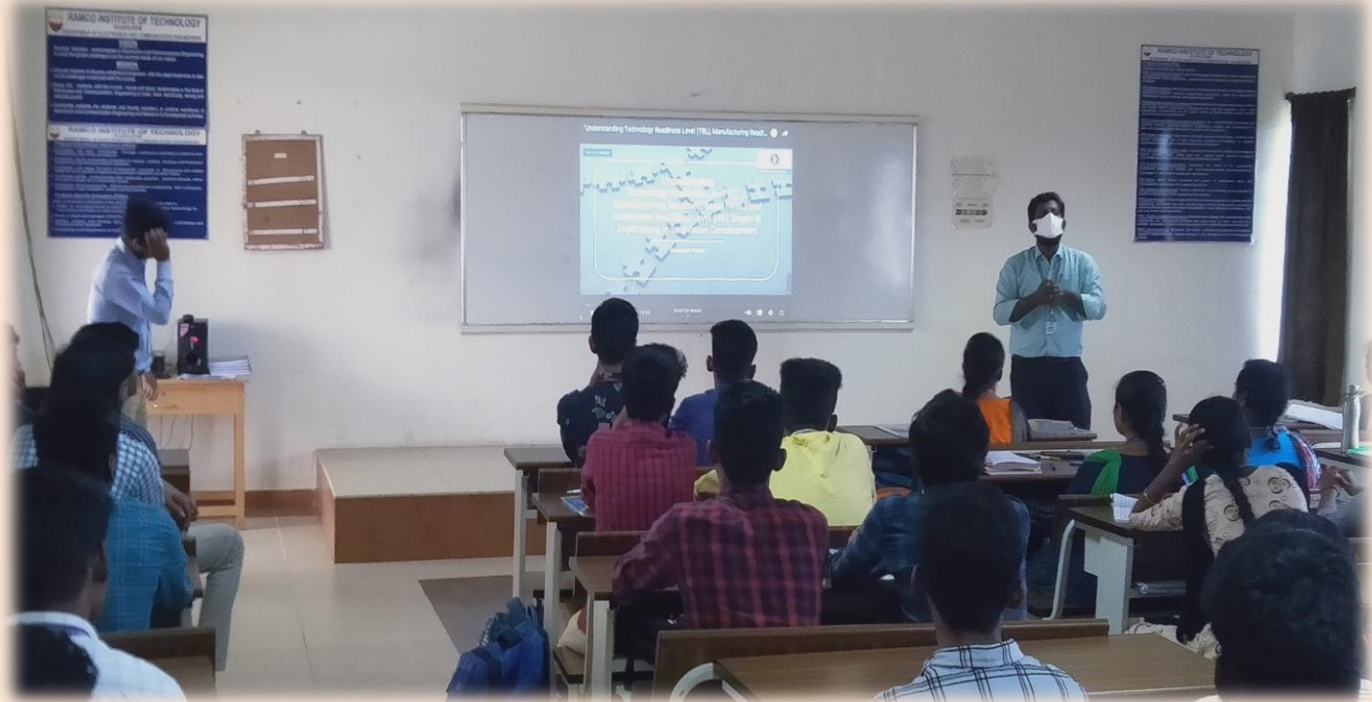
### **Brief Description of the Program:**

The session was organized for the students of I year who were involving in developing their National Science Day projects. To throw the lights on Technology Readiness Level, and make them analyze in what stage they have made their project the session was organized. Most of the engineering students naturally finds it difficult to take their projects to next stage. This is where the projects of engineering students fail to enter in to a real time solutions. They remain as a project to explain an engineering principle. To make the students of same batch to take their final year project as a product we gave the input. We referred to the link suggested by MIC in the YouTube channel and played and explained the same to the students. Dr.Ashutosh Pastor, Manager, Start-up Incubation at Foundation for Innovation and Technology Transfer, IIT-D video helped the students to understand the TRL concept and at the end Mr.G.Prabu ram, AP(SG) and Mr.R.Arun Kumar, AP/Mech and Convener, RIT-IIC explained the concept of TRL with NASA space craft case study.

(<https://www.nasa.gov/sites/default/files/thumbnails/image/technology-readiness-level.gif>)

### **Photograph of the Session:**





## PROGRAM XXV

**Title** : Online Quiz on “National Pollution Control Day”

**Organizer** : RIT – IIC & RIT ED Cell

**Date** : 02.12.2021

**Participation details** : 42 students and 5 faculty members

**Objective of the Program:**

- To create an awareness about the control of pollution among the students.

**Brief Description of the Program:**

As a part to create an awareness among the students, online quiz on “National Pollution Control Day” was conducted for our college students & staff members on 02.12.2021 through google form. Quiz comprises the 15 questions. Dr.P.Thiruramanathan, AP/Physics coordinated this event. The responses received are attached at the end of the document.

**Brochure of the Event:**



**Sample Certificate:**



## PROGRAM XXVI

**Title** : Achieving Problem-Solution Fit & Product-Market Fit  
**Organizer** : RIT – IIC & RIT ED Cell  
**Date** : 25.02.2022  
**Participation details** : 55 students and 2 faculty members  
**Resource Person** : Dr Pankaj Parashar, Founder, Cutting Edge Medical Devices Pvt. Ltd., Indore

### **Objective of the Program:**

- To give an insight to students about achieving problem-solution fit and product-market fit

### **Brief Description of the Program:**

The session started with a brief introduction about the need for achieving problem-solution fit and product market fit in today's competitive world. The online resource available in MHRD Innovation Cell YouTube Channel was utilized and the same was telecasted. The resource person elaborated the importance of product design to survive in market with suitable examples. He also narrated the steps involved in the design of engineering product. In addition, he explained about his journey of innovation and product development. The session ended with the oral feedback from students.

### **Brochure of the Event:**



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organizes

**ACHIEVING PROBLEM-SOLUTION FIT & PRODUCT-MARKET FIT**

Online Resource: <https://www.youtube.com/watch?v=m9UcoEzwwA&t=2910s>

Resource Person:  
Dr Pankaj Parashar  
Founder  
Cutting Edge Medical Devices Pvt. Ltd.  
Indore

ECE Classroom. II Floor  
25.02.2022  
3 PM to 4:30 PM

### **Photograph of the Session:**



## PROGRAM XXVII

- Title** : Motivation Camp about MSME  
**Organizer** : RIT – IIC & RIT ED Cell  
**Date** : 21.03.2022  
**Participation details** : 58 students and 4 faculty members  
**Resource Person** : Dr Pankaj Parashar, Founder, Cutting Edge Medical Devices Pvt. Ltd., Indore

### **Objective of the Program:**

- To inculcate the importance of District Industries centers by sharing the schemes available for funding through MSME.

### **Brief Description of the Program:**

The session started with a brief introduction about the speaker given by Mr.T.Chockalingam, AP/Civil and Department RIT-IIC coordinator.

Resource person asked about the early knowledge about business and Entrepreneurship. Then he started with the introduction about District Industries Centre (DIC).

He started the lecture with importance of becoming an entrepreneur:

- Mudra Scheme
- Credit Linked Capital Subsidy Scheme for Technology Upgradation
- Credit Guarantee Scheme
- Prime Minister Employment Generation Programme (PMEGP)
- Micro and Small Enterprises Cluster Development Programme (MSE-CDP)
- National Manufacturing Competitiveness Programme (NMCP)
- Credit Guarantee Fund Trust for Micro and Small Enterprises

Then he continued the lecture with the different opportunity and subsidy available for the same.

Finally, he summarized the importance of becoming an entrepreneur. Then all the students enquired their doubts in clarifying about the funding schemes and subsidy available. The session ended with the oral feedback from students. Mr.C.A.Yogaraja, AP/CSE and Department IIC coordinator delivered the vote of thanks.

### **Brochure of the Event:**

**RAMCO INSTITUTE OF TECHNOLOGY**  
North Venganallur Village, Rajapalayam – 626 117  
Approved by AICTE and Affiliated to Anna University, Chennai  
Accredited by NAAC, ISO 9001:2015 Certified Institution  
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

*RIT ENTREPRENEURSHIP DEVELOPMENT CELL (RIT EDC) & RIT - INSTITUTION'S INNOVATION COUNCIL (RIT - IIC)*  
In Association with  
**District Industries Centre, Virudhunagar**  
Presents lecture on  
**Motivation Camp about MSME**

**Thiru. S.Gomathinayagam**  
Deputy Director  
District Industries Centre  
Virudhunagar

**Faculty Coordinators**  
Mr.G.Prabu ram, AP(SG)/MECH  
Mr. T. Chockalingam, AP/Civil

**Student Coordinators**  
Mr.M.Maadhesh, III Year/MECH  
Mr.S.Muthu Sanjay, III Year/Civil

**Location:** Mechanical Engineering Seminar Hall  
**Date:** 21 March, 2022  
**Time:** 10.00 AM to 11.00 AM

**Contact:** /ritrijpm, /Ramco Rajapalayam, /ramco\_rajapalayam, /RAMCO INSTITUTE OF TECHNOLOGY

**Photograph of the Session:**



## PROGRAM XXVIII

**Title** : Entrepreneurship is the Way  
**Organizer** : RIT – IIC & RIT ED Cell  
**Date** : 22.03.2022  
**Participation details** : 200 students and 5 faculty members  
**Resource Person** : Mr.Vimal Thiyagarajan, Founder, B Positive Training Academy Chennai

### **Objective of the Program:**

- Why Entrepreneurship
- Qualities of Entrepreneurs
- Identification of business Opportunities

### **Brief Description of the Program:**

RIT IIC and ED Cell of Ramco Institute of Technology organized on session on “Entrepreneurship is the Way” on 22.03.2022 from 10.00 AM to 11.00 AM at Shri P.R.R Seminar Hall, Ramco Institute of Technology, Rajapalayam. The event started with welcome address by Ms.M.Shrinithimeena, III Year ECE and who gave a brief introduction about the session. Mr.Vimal Thiyagarajan, Founder, B Positive Training Academy Chennai was the resource person for this session. He shared his experience and interacts with the participants. Entrepreneurs can change the way we live and work. If successful, their revolutions may improve our standard of living. In short, in addition to creating wealth from their entrepreneurial ventures, they also create jobs and the conditions for a flourishing society. He also explained about the difficulties in leading life as a Entrepreneurship. He shared his own journey as a Entrepreneurship. He also explained that huge amount investment in running a successful business. The session was backed up from the participants end and with an interactive live Question and Answers session. The vote of thanks was delivered by Ms.R.Monika, III Year ECE and the participants gave their feedback and asked to conduct more events towards on Entrepreneurship. Totally 200 students from various departments and five faculty members were participated in this interactive session.

### **Brochure of the Event:**

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Accredited by NAAC & An ISO 9001:2015 Certified Institution  
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**RIT Institution's Innovation Council**

Organize a session on

**“Entrepreneurship is the way”**

Resource person

**Mr.Vimal Thiyagarajan, Founder, B Positive Training Academy**

Date: 22.03.2022 (Tuesday)  
Time: 10.00 am to 11.00 am

PRR Seminar Hall

INSTITUTION'S INNOVATION COUNCIL  
(Ministry of Education Initiative)

Activat  
G...E...

**Photograph of the Session:**



## PROGRAM XXIX

**Title** : Exchange of thoughts Lecture on Finance Planning for a Start-up Business

**Organizer** : RIT – IIC & RIT ED Cell

**Date** : 09.04.2022

**Participation details** : 5 students and 20 faculty members

**Resource Person** : Mr.A.Kesavan, CEO, Quantanics Techserv Pvt. Ltd., Madurai

### **Objective of the Program:**

- To get an insight on writing a business proposal.

### **Brief Description of the Program:**

RIT IIC and RIT EDC organized “Exchange of thoughts Lecture on Finance Planning for a Start-up Business” on 09.04.2022. Mr.A.Kesavan, CEO, Quantanics Techserv Pvt. Ltd., Madurai was the resource person for the session. 23 members attended the session and got benefited.

### **Brochure of the Event:**



### **Photograph of the Session:**



## PROGRAM XXX

**Title** : Online Quiz on “Awareness on Intellectual Property Rights”

**Organizer** : RIT – IIC & RIT ED Cell

**Date** : 26.04.2022

**Participation details** : 71 students and 3 faculty members

**Objective of the Program:**

- To create an awareness about the IPR among the students.

**Brief Description of the Program:**

On behalf of World Intellectual Property Day 2022, RIT-IIC organized online quiz on “Awareness on Intellectual Property Rights” on 26.04.2022. More than 70 students actively participated and earned certificate of participation.

**Sample Certificates:**



## PROGRAM XXXI

**Title** : Water Day Awareness Rally

**Organizer** : RIT NSS

**Date** : 21.03.2022

**Participation details** : 50 students and 2 faculty members

**Objective of the Program:**

- To create an awareness about the water conservation among public.

**Photographs of the Rally:**



## PROGRAM XXXII

**Title** : Field Visit to an Incubation Centre  
**Organizer** : RIT – IIC & RIT ED Cell  
**Date** : 25.06.2022  
**Participation details** : 21 students and 3 faculty members  
**Resource Person** : Mr.A.Kesavan, CEO, Quantanics Techserv Pvt. Ltd., Madurai

### **Objective of the Program:**

- To make the students to understand the facilities that will be availed in an incubation centre
- To make the students get exposed to the products developed by Quantanics start-up incubated in Maxelerator Foundation.

### **Brief Description of the Program:**

21 students and 3 faculty members of Ramco Institute of Technology visited the incubation unit Maxelerator Foundation located in Madurai at 10:30AM. Initially, Dr.T.Karthick, Director of Academic Research of Maxelerator Foundation, welcomed all by explaining about the inception and the progress made in the centre.

Then Mr.Kesavan, Founder and CEO of Quantanics Pvt. Ltd., an incubated start-up in Maxelerator Foundation explained what products they are developing in the incubation centre. Then the students were sent to each engineer of Quantanics Pvt. Ltd. They explained the different developments they are developing for farming tractor, battery management system, data set collection using ML, additive manufacturing, and account maintenance using Zoho Books.

Later, Mr.Faradh Manaz, Project Coordinator of DRDO project, Edge Matrix explained the project they are involved in developing autonomous surveillance vehicle in borders. He also added the support system provided by Maxelerator Foundation in getting connected with DRDO officials through IIT-M Research Park, Chennai. Towards the end, students of Mannar College pursuing III Year B.Sc. Electronics shared how Maxelerator had developed them towards skill development, as well as in project through internship.

Finally, Dr.T.Karthick shared that Maxelerator is ready to help the students in various aspects through internship, project competition participation, etc. The entire visit was winded up by 2:30PM with a refreshment and group photo.

### **Photographs of the Session:**





 **Madurai, Tamil Nadu, India**  
206 Vellaikannu, Nagar, Theni Main Rd,  
Sammatipuram, Madurai, Tamil Nadu 625016, India  
Lat 9.933202°  
Long 78.091707°  
25/06/22 11:35 AM



# **Department of Civil Engineering**



# RAMCO INSTITUTE OF TECHNOLOGY

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## Department of Civil Engineering

Date: 08.07.2021

### Report – Technical Webinar (07.07.2021)

Department of Civil Engineering, Ramco Institute of Technology in association with Builders' Association of India, Madurai Centre & RIT - ICI Students chapter conducted a webinar on 07.07.2021 (Wednesday) at 06.00 PM through 'Google Meet' platform.

#### Convener

1. Mr.S.Dharmar, HoD<sub>(i/c)</sub> Civil Engineering, RIT

#### Faculty Coordinators:

1. Mr.G.Karthikeyan, Assistant Professor (Senior Grade), Civil Engineering, RIT
2. Mr.J.Ram Prashath, Assistant Professor, Civil Engineering, RIT
3. Mrs.A.Leema Margret, Assistant Professor, Civil Engineering, RIT

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**Department of Civil Engineering**  
in association with  
**Builders' Association of India, Madurai Centre**  
&  
**RIT - ICI Students Chapter**  
Jointly Organises a  
**Technical Webinar on**  
**TBM Tunnel Excavation in Metro Projects**

**Counselling Code : 4678**  
**Admission Open 2021 - 2022**

**Er.P.Ananthakumar**  
Director  
Rail Infrasy, Bangalore

**Platform: Meet**

**REGISTER NOW**  
<https://forms.gle/tijwn8A4zBZn9ZVXA>

**Target Audience:**  
Students, Faculty Members, Research Scholars, Practicing Engineers and Civil Contractors

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Dr.L.Ganesan  
Principal

**Patron**  
Dr.S.Rajakarunakaran  
Vice Principal

**Co - Patron**  
Mr.S.R.Karthick  
Chairman  
Builders' Association of India

**Convener**  
Mr.S.Dharmar  
HOD/CIVIL

**Co - Convenor**  
Dr.K.Sivakumar  
Hon. Secretary  
Builders' Association of India

**Faculty Coordinators**  
Mr.G.Karthikeyan, AP(SG)  
Mr.J.Ram Prashath, AP  
Mrs.A.Leema Margret, AP

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www.youtube.com/channel/UCsqjkt-FBtsGzj9qYfP-g

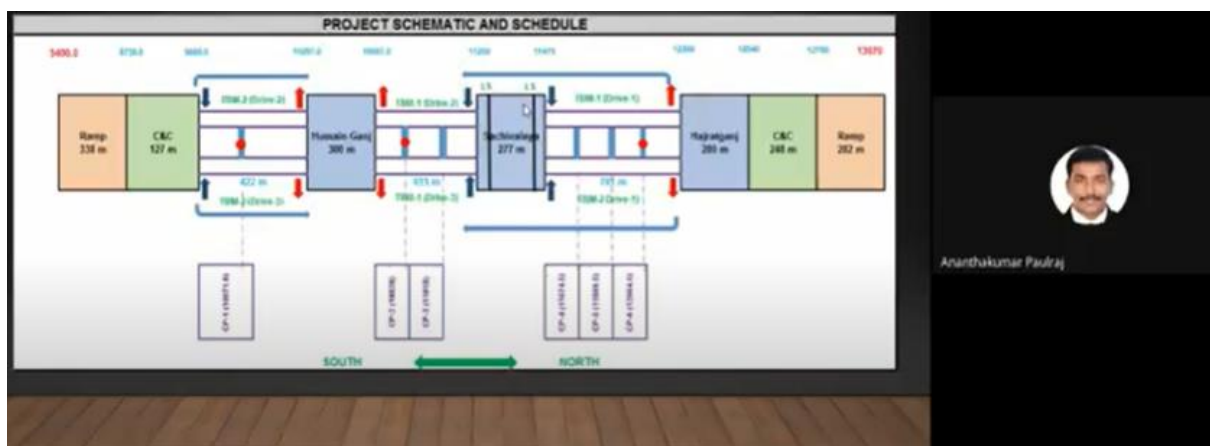
**STAY HOME** **STAY SAFE** **DIGITAL LEARNING**

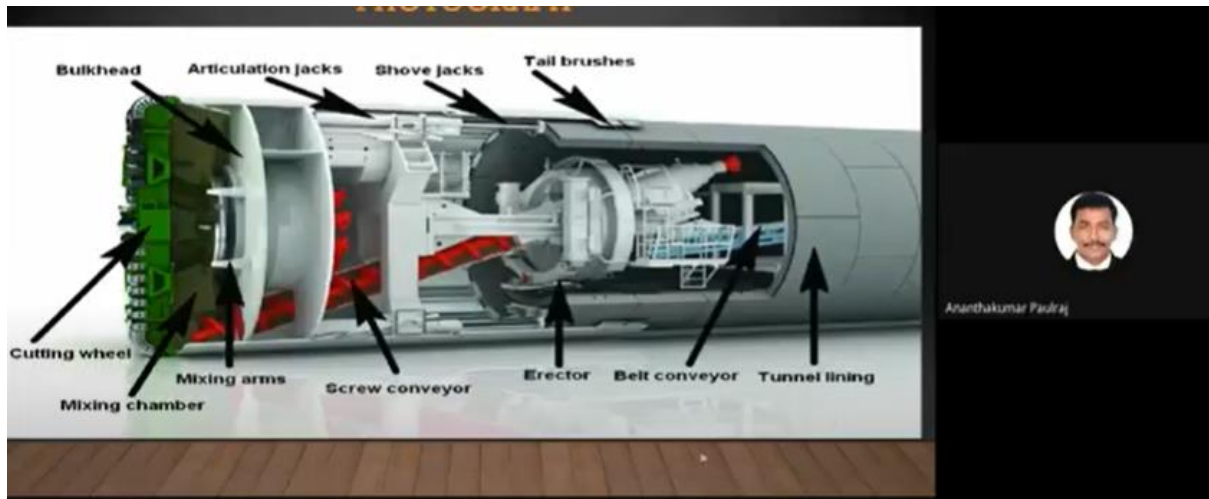
### Image of Webinar Brochure

### Participation Details:

The programme was started at 06:00 PM through Google meet platform. Mr.G.Karthikeyan, Assistant Professor (Sr.Gr.)/Civil welcomed the gathering and introduced the speaker **Er.P.Ananthakumar, Director, Rail Infasys, Bangalore**. He talked about “**TBM Tunnel Excavation in Metro Projects**” in this session was 96 (Engineers & Students) were participated and the session ended with Q&A and vote of thanks at 07:30 PM. Mr.G.Karthikeyan, Assistant Professor (Sr.Gr.)/Civil proposed vote of thanks.

### Glimpses of Technical Webinar Series





**Feedback:**

All the participants gave positive feedback and they are willing to hear from the same speaker once again.

**Acknowledgement:**

We would like to express our sincere thanks and gratitude to our Management, Principal, Vice-Principal for accepting our proposal for conducting this technical webinar.



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## Report – Webinar (10.07.2021)

Department of Civil Engineering in association with Land Coordinates Technology & RIT - ICI Students Chapter organized a technical webinar on "**Recent Trends in Coordinates Based Survey Technology**" on 10.07.2021 through Google Meet platform.

### Faculty Coordinator:

1. Mr.G.Karthikeyan, Assistant Professor(Sr.Gr.)/Civil Engineering
2. Mrs.R.Kalaimani, Assistant Professor/Civil Engineering
3. Mr.A.Manicka Mamallan, Assistant Professor/Civil Engineering

### Convenor:

Mr.S.Dharmar, HoD/Civil Engineering

### Patron:

Dr.S.Rajakarunakaran, Vice-Principal & Professor & Head, Mechanical Engineering

### Chief Patron:

Dr.L.Ganesan, Principal

### Participation Details:

Around 61 (Engineers & students) attended the webinar

**Brochure:**

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**Department of Civil Engineering**  
*in association with*  
**Land Coordinates Technology &  
 RIT - ICI Students Chapter**  
*Jointly organises a*  
**Technical Webinar on**  
**Recent Trends in Coordinates Based  
 Survey Technology**

**Er.A.Selvam**  
**General Manager**  
**Land Coordinates Technology  
 Chennai**

**July 10 2021**  
 06.00 pm to 07.00 pm

**Platform: Meet**

**REGISTER NOW**  
<https://forms.gle/PEVMCH4TeHLfGByh6>

**Faculty Coordinators**  
**Mr.G.Karthikeyan, AP(SG)**  
**Mrs.R.Kalaimani, AP**  
**Mr.A.Manicka Mamallan, AP**

**Chief Patron**  
**Dr.L.Ganesan**  
**Principal**

**Patron**  
**Dr.S.Rajakarumakaran**  
**Vice Principal**

**Convener**  
**Mr.S.Dharmar**  
**HOD/CIVIL**

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 www.youtube.com/channel/UCsq1k0-FB1sGzj9qYIP-g

**STAY HOME** **STAY SAFE** **DIGITAL LEARNING**

**Screenshots:**

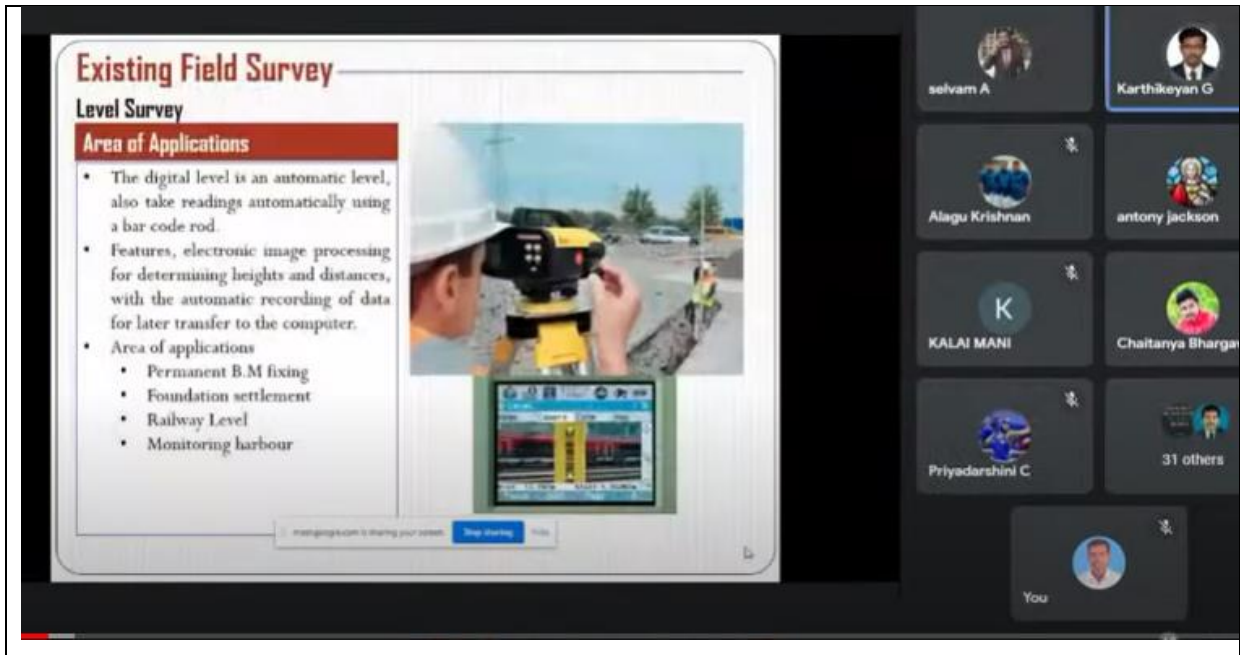
**Introduction**

**Existing Field Survey Technology in India**  
 Level Survey, Total Station Survey, DGPS Survey

**Office Survey & Plotting Technology**  
 CAD Drafting, GIS Drafting, Photogrammetry

**Future Field Survey Technology in India**  
 Terrestrial, Airborne Lidar Survey

Participants: selvam A, Karthikeyan G, Alagu Krishnan, antony jackson, KALAI MANI, Chaitanya Bharga, Darshika jobanputra, 33 others, You



**Recordings:**

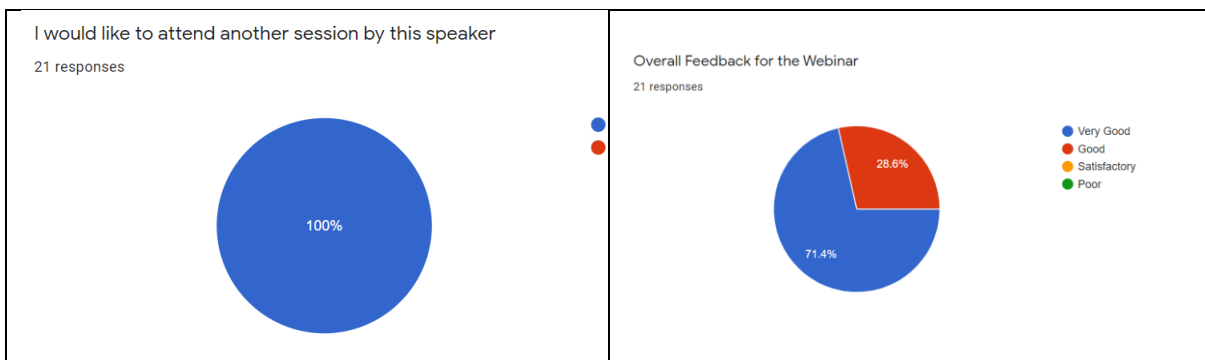
The webinar on “Recent Trends in Coordinates based survey technology” was recorded and the recordings were forwarded to the concern team for repository purpose.

The same recorded video was uploaded in YouTube channel of the department (RIT Civil) for the benefit of public. The link for the same is mentioned below.

[Webinar Recording](#)

**Feedback:**

The session was very informative and they are willing to hear from the same speaker once again.



**Acknowledgement:**

We would like to express our sincere thanks and gratitude to our Management, Principal, Vice-Principal for accepting our proposal for conducting this online workshop.



# RAMCO INSTITUTE OF TECHNOLOGY

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## Report – Webinar (18.06.2021)

Department of Civil Engineering in association with Infinity PMC Solutions Pvt. Ltd, & Builders' Association of India, Madurai organized a technical webinar on "**The use of Innovative Technologies in the Construction Industry**" on 13.07.2021 through Google Meet platform.

### Faculty Coordinator:

1. Mr.G.Karthikeyan, Assistant Professor(Sr.Gr.)/Civil Engineering
2. Mrs.D.Darling Helen Lydia, Assistant Professor/Civil Engineering
3. Mr.T.Chockalingam, Assistant Professor/Civil Engineering

### Convenor:

Mr.S.Dharmar, HoD/Civil Engineering

### Patron:

Dr.S.Rajakarunakaran, Vice-Principal & Professor & Head, Mechanical Engineering

### Chief Patron:

Dr.L.Ganesan, Principal

### Participation Details:

Around 221 (Engineers & students) attended the webinar

**Brochure:**



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**IPMCS**

**Department of Civil Engineering**  
in Association with  
**Infinity PMC Solutions Pvt. Ltd. & Builders' Association of India, Madurai**

Jointly Organises a  
**Technical Webinar**  
on  
**The Use of Innovative Technologies in the Construction Industry**



TÜVRheinland  
CERTIFIED



BUILDERS' ASSOCIATION OF INDIA  
Estd. 1941

**Counselling Code : 4678**  
**Admission Open 2021 - 2022**

**JULY 13 2021**  
03.00 pm to 04.30 pm

**OUR SPEAKER**  
**Er.S.Suganya & Er.B.Janani**  
**IPMCS, Chennai**  
Topics:  
i) Planning and scheduling using 4DBIM(Power Project) &  
ii) Cost Estimation and Quantity Survey using 5DBIM (iTWOCostX)



**Platform: Meet**

**REGISTER NOW**  
<https://forms.gle/hseg24b7ykJygpRt7>

**E-Certificate will be provided to all the participants**

**Chief Patron**  
**Dr.L.Ganesan**  
Principal  
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**Co - Patron**  
**Mr.S.R.Karthick**  
Chairman  
Builders' Association of India  
[www.instagram.com/ramco\\_rajapalayam/](https://www.instagram.com/ramco_rajapalayam/)

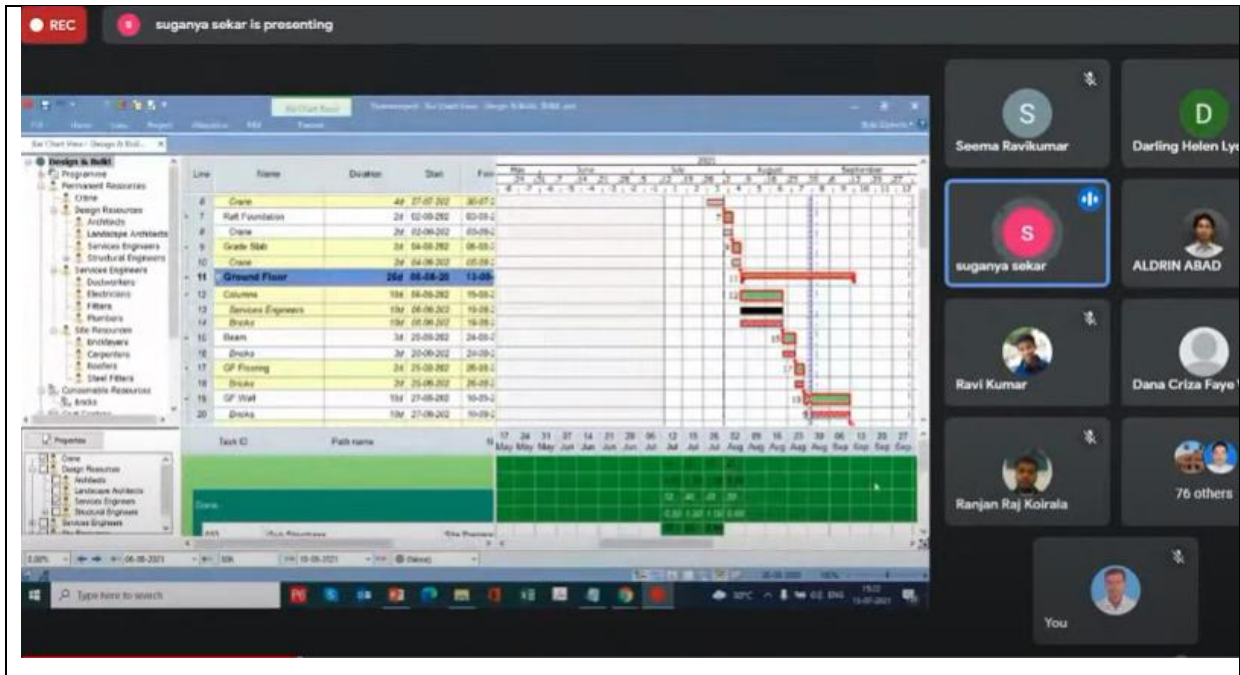
**Convenor**  
**Mr.S.Dharmar**  
HOD/CIVIL

**Co - Convenor**  
**Dr.K.Sivakumar**  
Hon. Secretary  
Builders' Association of India  
[www.youtube.com/channel/UCsqjko-FBItGzj9qYIP-g](https://www.youtube.com/channel/UCsqjko-FBItGzj9qYIP-g)

**Faculty Coordinator(s)**  
**Mr.G.Karthikeyan, AP(SG)**  
**Mrs.D.Darling Helen Lydia, AP**  
**Mr.T.Chockalingam, AP**

**Screenshots:**





### **Recordings:**

The webinar on “The use of Innovative Technologies in the Construction Industry” was recorded and the recordings were forwarded to the concern team for repository purpose.

The same recorded video was uploaded in YouTube channel of the department (RIT Civil) for the benefit of public. The link for the same is mentioned below.

[Webinar Recording](#)

### **Feedback:**

The session was very informative and they are willing to hear from the same speaker once again.

### **Acknowledgement:**

We would like to express our sincere thanks and gratitude to our Management, Principal, Vice-Principal for accepting our proposal for conducting this online workshop.

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Department of Civil Engineering  
Academic Year 2021 – 2022 (Odd Semester)

## Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Inauguration of Department Association - RIT STRUCTA & ICI Students Chapter
02.	Programme Theme	An overview of Quantity Surveying
03.	Programme Type	Webinar
04.	Details of resource person	Er.Shriram Ramanan, Chartered Quantity Surveyor, Parsons Corporation, Dubai.
05.	Mode & Venue / Platform	Online(Chief Guest) cum Offline(Students and Faculty Members) & CAD Lab
06.	Date & Duration	17-09-2021, 2 Hours
07.	No. of Student Participants	59
08.	No. of Faculty Participants	12
09.	No. of External Participants	Nil
10.	Expenditure amount (if any)	Nil
11.	Social Media URL	<a href="https://www.facebook.com/RITRajapalayam/posts/1384942588589118">https://www.facebook.com/RITRajapalayam/posts/1384942588589118</a>
12.	Video URL (if any)	<b>YouTube Link:</b> <a href="https://youtu.be/Iyqsh-3lvZc">https://youtu.be/Iyqsh-3lvZc</a>

### 13. Objective of the Programme:

Quantity surveying is of paramount importance to deliver the efficiency of projects along with financial arrangements before the actual execution of the project. To do the complete estimation analysis of any project there is a great importance of quantity surveying. A quantity surveyor will analyze the quantities, measurements, and cost of material altogether with the cost of labor and the machinery required for the execution of a project. It plays an important role in determination of estimated expense for a particular project to make the necessary financial arrangements before starting the actual work.



### 14. Detail description of the activity:

The inaugural function of Civil Engineering department association "RIT STRUCTA and ICI Students Chapter" was held on 17.09.2021 at CAD Lab for the academic year 2021-2022. The program started with the prayer song. Ms.V.S.Priyadharshini of II Year Civil Engineering welcomed the gathering. Mr.G.Karthikeyan, AP(SG)/Civil presented the annual plan of RIT STRUCTA and ICI Students Chapter.

Ms.S.Meena Barathi of IV Year civil Engineering gave a brief introduction about chief guest Er.Shriram Ramanan, Chartered Quantity Surveyor, Parsons Corporation Dubai.

He delivered his speech on the topic "An overview of Quantity Surveying" through google meet and explained the role of quantity surveyor in various stages and Introduction of various forms of standard contracts and the opportunities available for civil Engineers in quantity surveying. Lastly the vote of thanks was given by Mrs.D.Darling Helen Lydia, AP/Civil. Totally 59 students from II, III & IV year Civil Engineering benefitted through this program.


### 15. Banner / flyer of the programme:



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North Vengalilur Village, Rajapalayam - 626 117, Tamilnadu.

**Department of Civil Engineering**  
**Inauguration**  
of  
**RIT-Structa and ICI Students Chapter**

Guest Lecture on :  
**Quantity Surveying**



**Chief Guest**  
Er.Shriram Ramanan  
Quantity Surveyor  
Parsons Corporation  
Dubai

Date : 17.09.2021  
Time : 11.00 AM

Venue: Civil Seminar Hall

Chief Patron  
Dr.L.Ganesan  
Principal

Patron  
Dr.S.Rajakarunakaran  
Vice Principal

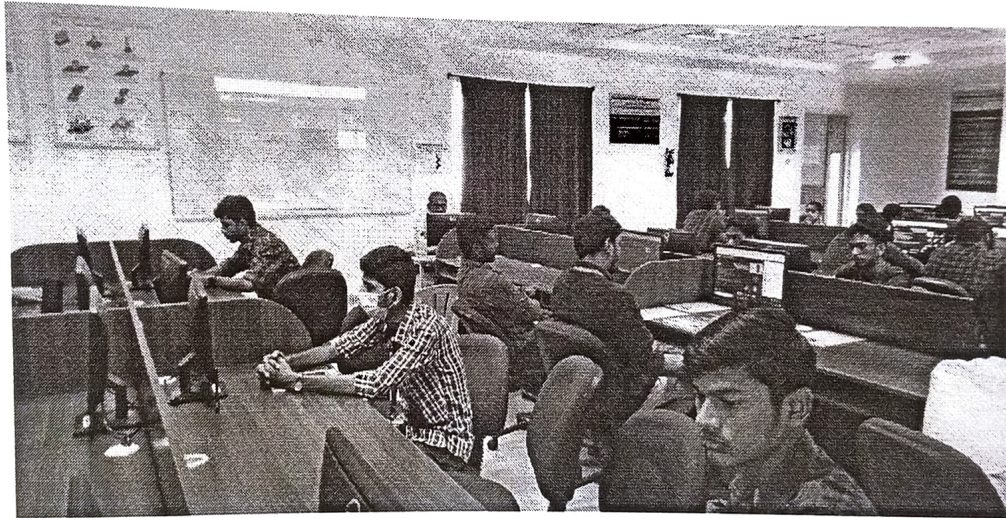
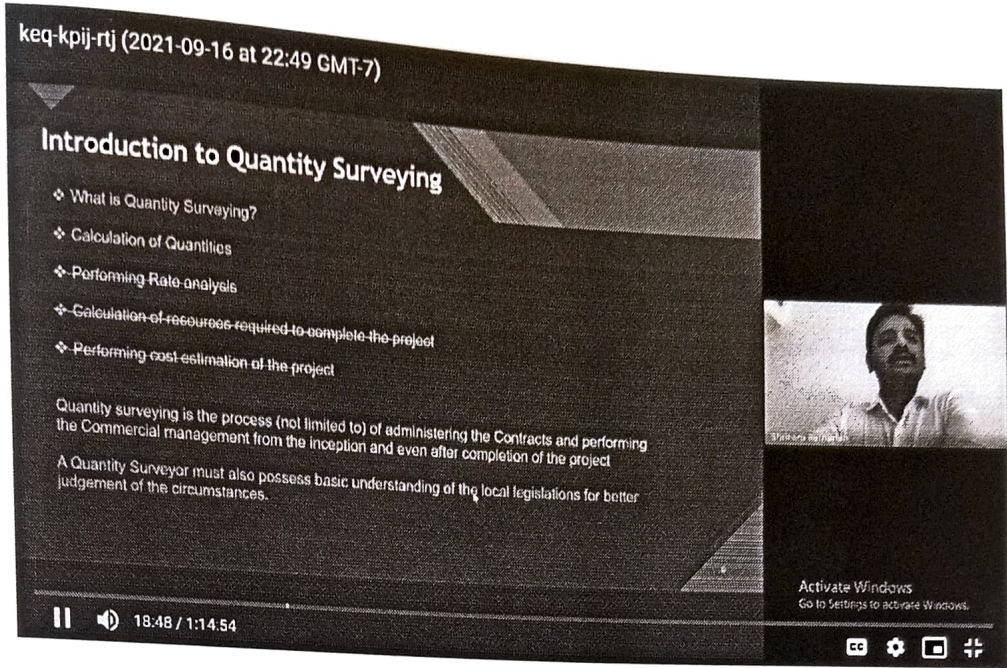
Convener  
Mr.S.Dharmar  
HOD/Civil

Faculty Coordinator  
Mr.G.Karthikeyan, AP(Sr. Gr.)/Civil  
Mrs.D.Darling Helen Lydia, AP/Civil

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Prepared by: *[Signature]*  
D. Darling Helenydia

Approved by  
*[Signature]*



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## Department of Civil Engineering

Date: 17.12.2021

### Report – Technical webinar on Autodesk’s BIM Softwares

Department of Civil Engineering, Ramco Institute of Technology & RIT - ICI Students chapter conducted a technical webinar on Autodesk's BIM Softwares on 17.12.2021 (Thursday) at 03.00 PM through ‘Microsoft teams’ platform.

#### Convener

1. Mr.S.Dharmar, HoD<sub>(i/e)</sub> Civil Engineering, RIT

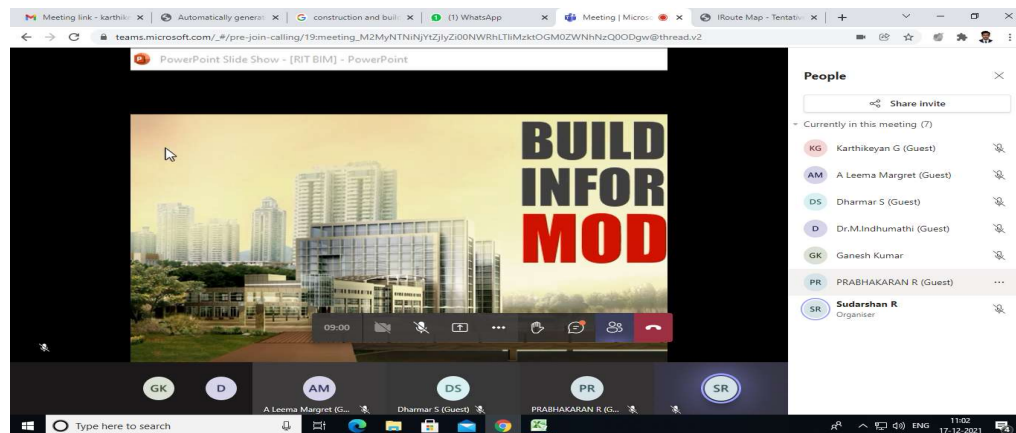
#### Faculty Coordinators:

1. Mr.G.Karthikeyan, Assistant Professor (Senior Grade), Civil Engineering, RIT
2. Mr.V.Ragavan, Assistant Professor, Civil Engineering, RIT

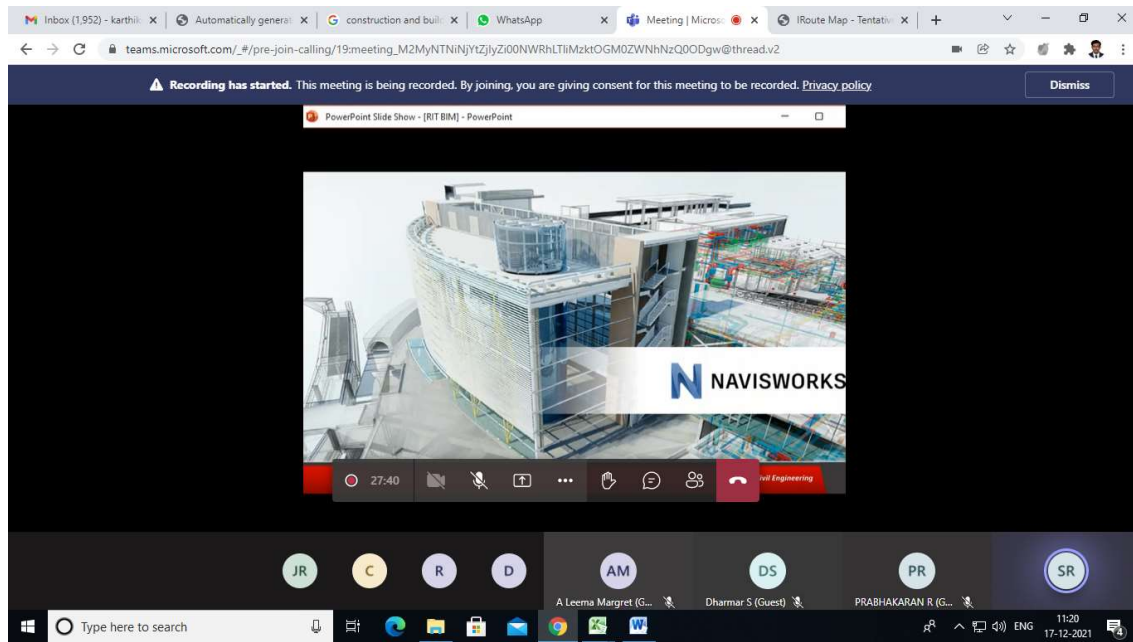
#### Participation Details:

The programme was started at 03:00 PM through Microsoft teams platform. Mr.G.Karthikeyan, Assistant Professor (Sr.Gr.)/Civil welcomed the gathering and introduced the speaker Mr. Mr.R.Sudarshan, National Manager,CADD Centre Training Services Pvt. Ltd., Chennai. He talked about “**Autodesk's BIM Softwares**” in this session was 10 faculty members were participated and the session ended with Q&A and vote of thanks at 04:30 PM. Mrs.A.Leema Margret, Assistant Professor/Civil proposed vote of thanks.

#### Glimpses of webinar







### **Feedback:**

All the participants gave positive feedback and they are willing to hear from the same speaker once again.

### **Acknowledgement:**

We would like to express our sincere thanks and gratitude to our Management, Principal, Vice-Principal for accepting our proposal for conducting this guest lecture.



# RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University

An ISO 9001: 2015 Certified Institution

NAAC Accredited Institution

Department of Civil Engineering  
Academic Year 2021 – 2022 (Odd Semester)

## Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Motivational talk on Career opportunities in Civil Engineering
02.	Programme Theme	Career Guidance
03.	Programme Type	A Motivational Speech
04.	Details of resource person	Mrs.M.Karpagam, M.Tech., Director of Pyramid Academy, Karaikudi.
05.	Mode & Venue / Platform	Offline
06.	Date & Duration	14-02-2021, 2 Hours
07.	No. of Student Participants	50
08.	No. of Faculty Participants	07
09.	No. of External Participants	Nil
10.	Expenditure amount (if any)	Nil
11.	Social Media URL	<a href="https://www.facebook.com/RITRajapalayam/">https://www.facebook.com/RITRajapalayam/</a>
12.	Video URL (if any)	-

### 13. Objective of the Programme:

A motivational speech is intended to persuade or motivate the audience to take some course of action. This definition more or less covers what is the purpose of delivering a motivational speech as well i.e to motivate people to do something. Motivational speeches are delivered to inspire the audience, to make them think, and finally to get them to accept & follow your call to action. That is, they not only have a cognitive purpose, but also an emotional and actionable one. To build up students confidence on choosing Civil Engineering by introducing the various opportunities available for Civil Engineers.

### 14. Detail description of the activity:

The Department of Civil Engineering, Ramco Institute of Technology, conducted a “Motivational talk on Career opportunities in Civil Engineering” in association with Department technical association RIT-Structa & Career Guidance Cell on 14.02.2022.

Mr.S.Dharmar, HOD/Incharge – Civil welcomed the chief guest. Mrs.D>Darling Helen Lydia, Association Incharge honored them with a shawl. Mr.J.Ramprashath, Career guidance cell incharge introduced about the chief guest.

The Resource Person for this session was Mrs.M.Karpagam, M.Tech., Director of Pyramid Academy, Karaikudi. Dr.C.Subramanian, Professor (CAS)/Civil, Alagappa Chettiar Government College of Engineering and Technology, Karaikudi appreciated the alumni of RIT who are working in various Government sectors. Mrs.M.Karpagam explained about the ‘n’ number of opportunities available for Civil Engineers in Government & Private sectors using the Japanese 4 components of Ikigai. That was really an eye opener for all the students. A total of 50 students took part and benefited from the programme. At last, Mr.T.Chockalingam proposed vote of thanks.

### 15. Banner / flyer of the programme:

The banner features the Ramco Institute of Technology logo at the top left, with text indicating its accreditation by AICTE and NAAC. The central text reads 'Department of Civil Engineering in association with Career Guidance Cell & RIT STRUCTA Motivational Talk on Career Opportunities in Civil Engineering'. A central image shows Mrs. CS. Karpagam speaking. To the right, a clock indicates the date 'Feb 14 2022' and time '11:00 am to 12:30 pm'. The bottom section lists the Chief Patron (Dr. J. Ganesan), Patron (Dr. S. Rajakarunakaran), Convenor (Mr. S. Dharmar), and Faculty Coordinators (Mrs. D. Darling Helen Lydia and Mr. J. Ramprashath). Social media links for Facebook, Instagram, and YouTube are provided at the bottom.

**16. Programme Photographs:**



**Prepared by:**

**Approved by:**

# RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University

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NAAC Accredited Institution

Department of Civil Engineering

Academic Year 2021 – 2022 (Even Semester)

## Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	One day Virtual Workshop on MATLAB – A Modelling Tool for Civil Engineering Applications
02.	Programme Theme	MATLAB training
03.	Programme Type	Workshop
04.	Details of resource person	Dr.M.Surendran, senior scientist CSIR-SERC, Chennai Dr.N.Karthiga Shenbagam, AP, Bannari Amman Institute of Technology, Sathyamangalam.
05.	Mode & Venue / Platform	Online mode-google meet
06.	Date & Duration	09.03.2022 & One day
07.	No. of Student Participants	39
08.	No. of Faculty Participants	05
09.	No. of External Participants	-
10.	Expenditure amount (if any)	Rs.5000
11.	Social Media URL	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-workshop-seminars.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-workshop-seminars.php</a>

### 13. Objective of the Programme:

Matlab allows Civil Engineers to create models and designs of the project. When a model expected project is created prior to implementing the actual project, it helps to reduce construction cost. So the objective of this program is to inculcate the knowledge about Matlab modeling tool for engineering applications among students community.

### 14. Detail description of the activity:

Department of Civil Engineering in association with RIT Structa conducted a One day Virtual Workshop on MATLAB- A Modelling Tool for Civil Engineering Applications on 09.03.2022(Friday) 4.00 PM through 'Google Meet' platform was organized on 22nd April 2022

#### (09.03.2022/Wednesday) FN session:

The programme started at 9.30 AM through Google meet platform. Dr.M. Surendran, Senior Scientist, CSIR-SERC, Chennai, taught an introduction about finite element analysis using MATLAB in the session. The session ended with Q&A at 12.30 PM.

#### (09.03.2022/Wednesday) AN session:

The programme started at 2.00 PM through Google meet platform. Dr.N. Karthiga, Assistant Professor, Bannari Amman Institute of Technology, Sathya Mangalam, taught structural RC components using MATLAB also the application and Optimization of MATLAB in the session ended with Q&A at 3.30 PM.

Dr.M.Indhumathi AP/Civil welcomed the chief guest. 39 students and 5 faculty benefitted through this program. Dr.M.Indhumathi AP/Civil organizing the event. Dr.M.Indhumathi AP(CSIR-SERC) & Mrs.R.Kalaimani AP/Civil Coordinated the event.

### 15. Banner / flyer of the programme

**RAMCO INSTITUTE OF TECHNOLOGY**  
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
An ISO 9001:2015 Certified and NAAC Accredited Institution  
North Verginalur Village, Rajapalayam - 626 117, Tamilnadu.  
NDA Accredited Departments: CSE, ECE, EEE & MECH

Department of Civil Engineering  
In association with  
**RIT STRUCTA**  
Jointly Organises an

One Day Virtual Workshop on  
**MATLAB-A Modelling Tool for  
Civil Engineering Applications**

**09  
09  
2022**

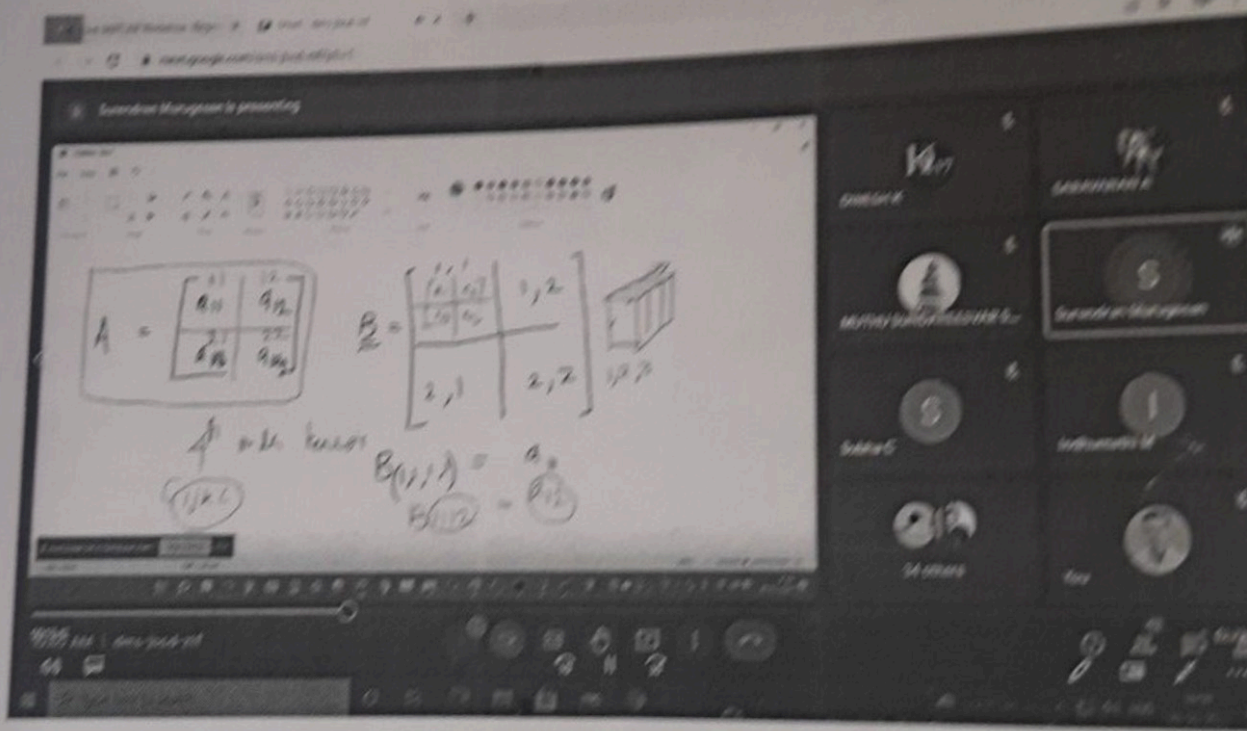
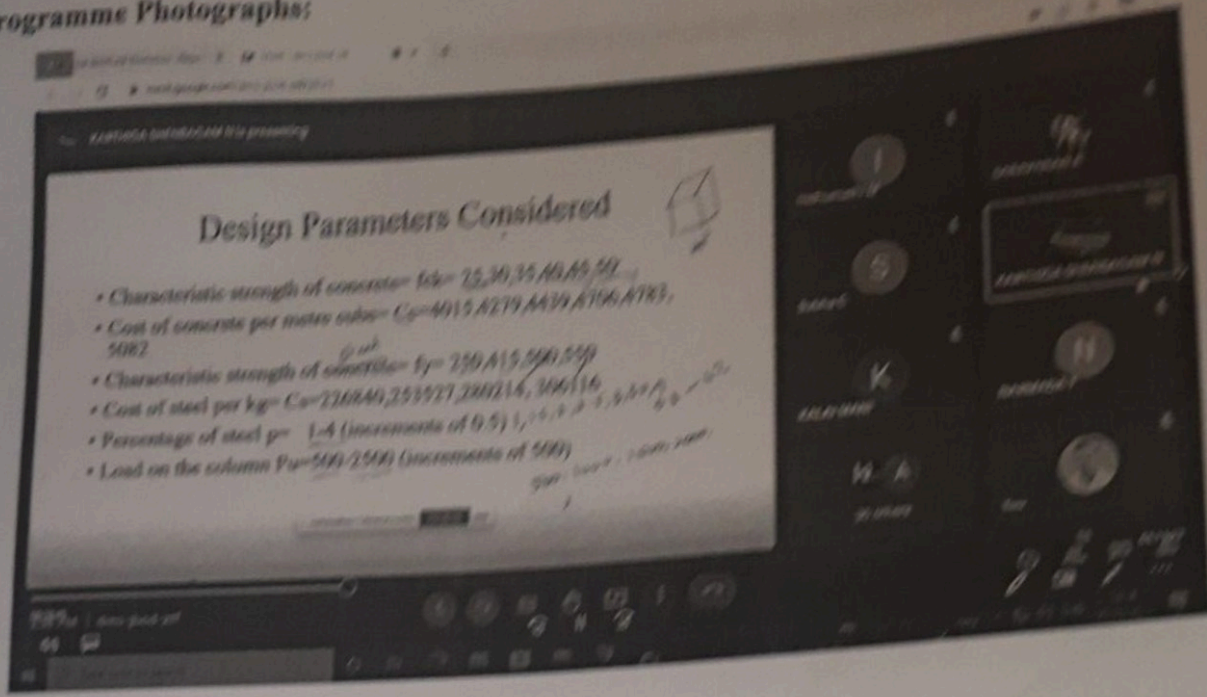
**Dr. M. Surendran**  
Senior Scientist  
CSIR-SERC, Taramani,  
Chennai

**Dr. N. Karthiga Shanbagam**  
Assistant Professor  
Bannari Amman Institute of Technology  
Sathya Mangalam

Organizing Faculty:  
Dr. M. Indhumathi  
Mrs. R. Kalaimani

Faculty Coordinators:  
Mrs. L. Saritha, AP/CE  
Mrs. R. Kalaimani, AP/CE

# 16. Programme Photographs:



Prepared by: *[Signature]*

Approved by: *[Signature]*

No. CO10

Rev.No. 00

Effective Date:



# RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University  
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NAAC Accredited Institution

Department of Civil Engineering  
Academic Year 2021 – 2022(Even Semester)

## Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Guest Lecture on Ergonomics in Construction
02.	Programme Theme	Safety.in construction
03.	Programme Type	Guest Lecture
04.	Details of resource person	Mr.C.Vignesh Kumar, Research Scholar, IIT Guwahati
05.	Mode & Venue / Platform	Offline
06.	Date & Duration	31.03.2022, 1 Hour
07.	No. of Student Participants	40
08.	No. of Faculty Participants	05
09.	No. of External Participants	Nil
10.	Social Media URL	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php</a>

### 11. Objective of the Programme:

The objective of the guest lecture is for the student to be able to learn about ergonomics in construction and to reduce their exposure to work hazards. A hazard is defined as a physical factor within your work environment that can harm your body. Ergonomic hazards include working in awkward or uncomfortable postures and using excessive force or high repetition to complete a task.

### 12. Detail description of the activity:

The Department of Civil Engineering, Ramco Institute of Technology, conducted a "Guest Lecture on Ergonomics in Construction" in association with Department technical association RIT-Structa & ICI Student Chapter on 25.03.2022

Ms.Siva Sakthiya of III Civil students welcomed the chief guest. Mr.G.Karthikeyan AP(SG)/Civil ICI Student Chapter Incharge honored them with a shawl. Mr.Muthusundareswar of III civil students introduced about the chief guest.


The Resource Person for this session was Mr.C.Vignesh kumar, Reasearch Scholar, IIT Guwahati. He explained about the ergonomics in construction. That was really an eye opener for all the students. A total of 40 students took part and benefited from the programme. At last, Ms.Keerthi Roja proposed vote of thanks.

### 13. Banner / flyer of the programme:

**RAMCO INSTITUTE OF TECHNOLOGY**  
Rajapalayam - 626 117, Tamilnadu, India  
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NBA Accredited for CSE, EEE, ECE & MECH

**DEPARTMENT OF CIVIL ENGINEERING**  
in Association with  
RIT Structa & ICI student chapter

**GUEST LECTURE ON**  
**Ergonomics in Construction**

  
**C.VIGNESHKUMAR**  
Doctoral Research Scholar,  
Ergonomics Lab,  
Department of Design,  
IIT Guwahati, Assam

Venue:  
**Civil Seminar Hall**

All the participants must reach the venue at 11.30 AM to 12.30 PM  
(25.03.2022)

Chief Patron: Dr.L.Ganesan, Principal  
Patron: Dr.S.Rajekarunakaran, Vice Principal  
Convener: Mr.S.Dhaniraj, HOD/CIVIL  
Organizing Secretary: Mrs.R.Kalaimathi, AP/CIVIL  
Faculty Coordinator(s): Dr.M.Indhumathi, AP/CIVIL, Mrs.C.Subha, AP/SG/CIVIL, Mrs.A.Leena, HOD/RET AP/CIVIL

RITCIVIL | WWW.INSTAGRAM.COM/RAMCO\_RAJAPALAYAM/ | RITCIVIL

1.4. Programme Photographs:



Prepared by:

*[Handwritten signature]*

Approved by:

*[Handwritten signature]*



# RAMCO INSTITUTE OF TECHNOLOGY

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An ISO 9001: 2015 Certified Institution

NAAC Accredited Institution

Department of Civil Engineering  
Academic Year 2021 – 2022 (Even Semester)

## Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Big Benefits of Building Information Modelling(BIM)
02.	Programme Theme	Software training
03.	Programme Type	A Webinar
04.	Details of resource person	Chandra Shekar, Co-Founder of TurnBIM Engineering Services
05.	Mode & Venue / Platform	Online mode-Microsoft Teams
06.	Date & Duration	22.04.2022 & 2 hours
07.	No. of Student Participants	20
08.	No. of Faculty Participants	12
09.	No. of External Participants	-
10.	Expenditure amount (if any)	-
11.	Social Media URL	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php</a>
12.	Video URL (if any)	-

### 13. Objective of the Programme:

Since BIM software is such an engaging, multi-dimensional tool, it can give a better understanding of design concepts and challenges. Models made with BIM data provide far more data-driven insights than other methods and give a comprehensive view of projects that we couldn't get anywhere else. So the objective of this program is to inculcate the knowledge about BIM among students community.

### 14. Detail description of the activity:

A **Webinar on Big Benefits of Building Information Modeling (BIM)** was organized on 22nd April 2022 in association with Civil department technical association RIT-STRUCTA and ICI students chapter in the online platform Microsoft Teams. The guest lecture was delivered by **Chandra Shekar, Co-Founder of TurnBIM Engineering Services** for IV Year Civil Engineering students and faculty members. In his lecture he briefly explained the benefits of Building Information Modelling and he explained about TEKLA software features, uses and its application in the field of designing.

Mr.G.Karthikeyan, AP(SG)/Civil welcomed the chief guest. 22 students and 12 faculty members got benefitted through this program. Mrs.D.Darling Helen Lydia, Association Incharge Coordinated the event.

### 15. Banner / flyer of the programme:

The banner is for a webinar titled "Big Benefits of Building Information Modeling (BIM)". It is organized by the Department of Civil Engineering at Ramco Institute of Technology, in association with RIT-Structa & ICI Student Chapter. The speaker is Chandra Shekar, Co-Founder of TurnBIM Engineering Services. The event is scheduled for 22.04.2022 at 11:00 AM. The register link is <https://forms.gle/Fw5pqPv2Qw3X2KAc8>. The banner also lists the Chief Patron (Dr.L.Ganesan), Patron (Dr.S.Rajakarunakaran), Convenor (Mr.S.Dhammar), and Faculty Coordinator(s) (Mr.G.Karthikeyan and Mrs.D.Darling Helen Lydia). Contact information for the institute and department is provided at the bottom.

**16. Programme Photographs:**



**Prepared by:**

**Approved by:**



# RAMCO INSTITUTE OF TECHNOLOGY

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## Department of Civil Engineering

Date: 02.12.2021

### Report – Guest lecture on Bentley BIM Advanced Software Education Program for Academic

Department of Civil Engineering, Ramco Institute of Technology & RIT - ICI Students chapter conducted a Guest lecture on **Bentley BIM Advanced Software Education Program for Academic** on 02.12.2021 (Thursday) at 03.00 PM through 'Google Meet' platform.

#### Convener

1. Mr.S.Dharmar, HoD<sub>(i/c)</sub> Civil Engineering, RIT

#### Faculty Coordinators:

1. Mr.G.Karthikeyan, Assistant Professor (Senior Grade), Civil Engineering, RIT
2. Mr.T.Chockalingam, Assistant Professor, Civil Engineering, RIT

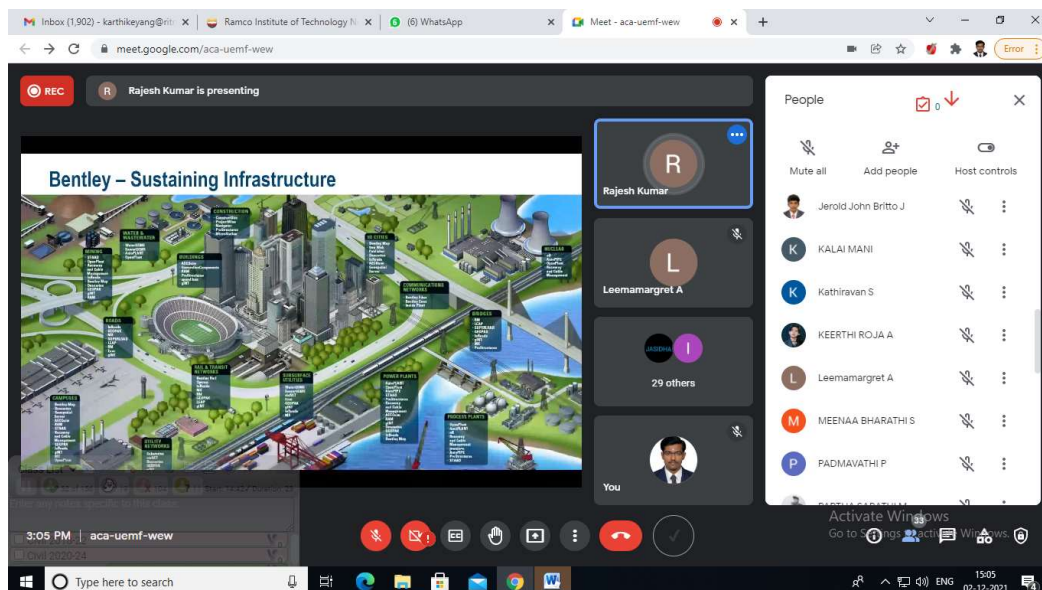
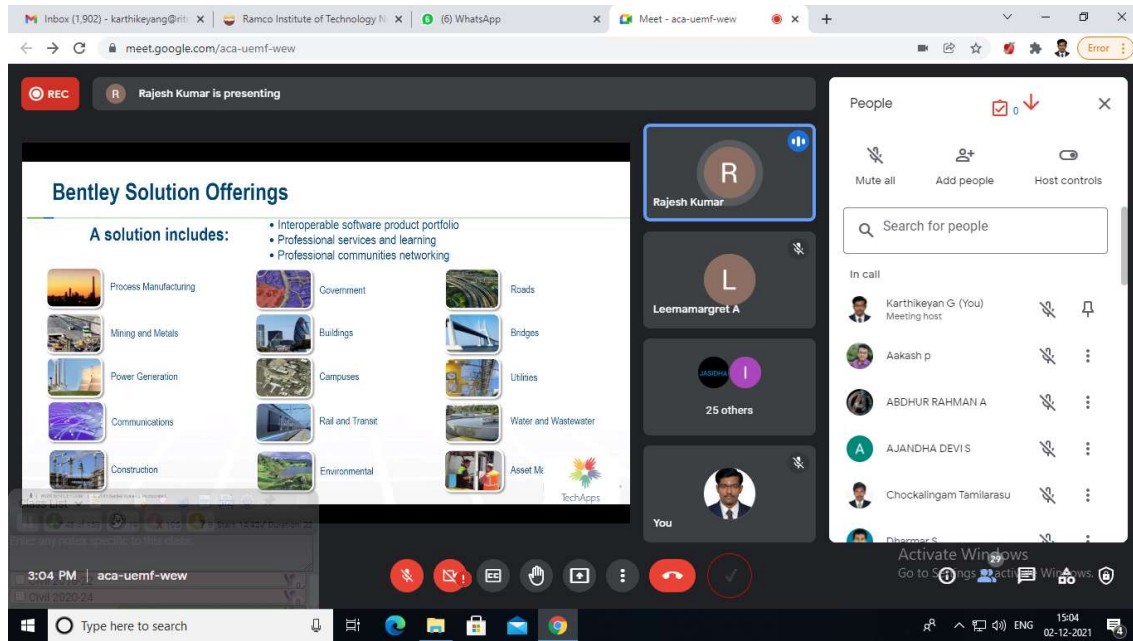
The brochure features the RAMCO Institute of Technology logo and name at the top, along with accreditation details (AICTE, Anna University, ISO 9001:2015, NAAC, and TÜVRheinland). It announces a guest lecture on Bentley BIM Advanced Software Education Program for Academic, organized by the ICI Students Chapter. The event is scheduled for December 02, 2021, at 03:00 pm, and will be held online via Google Meet. The convener is Mr. S. Dharmar, and the faculty coordinators are Mr. G. Karthikeyan and Mr. T. Chockalingam. The target audience includes faculty members and students from Civil, EEE, and Mech departments. A QR code is provided for registration. At the bottom, contact information for the institute is listed, including the website (www.ritrjpm.ac.in), Facebook (ritrjpmcivil), Instagram (www.instagram.com/ramco\_rajapalayam/), and YouTube (RIT Civil).

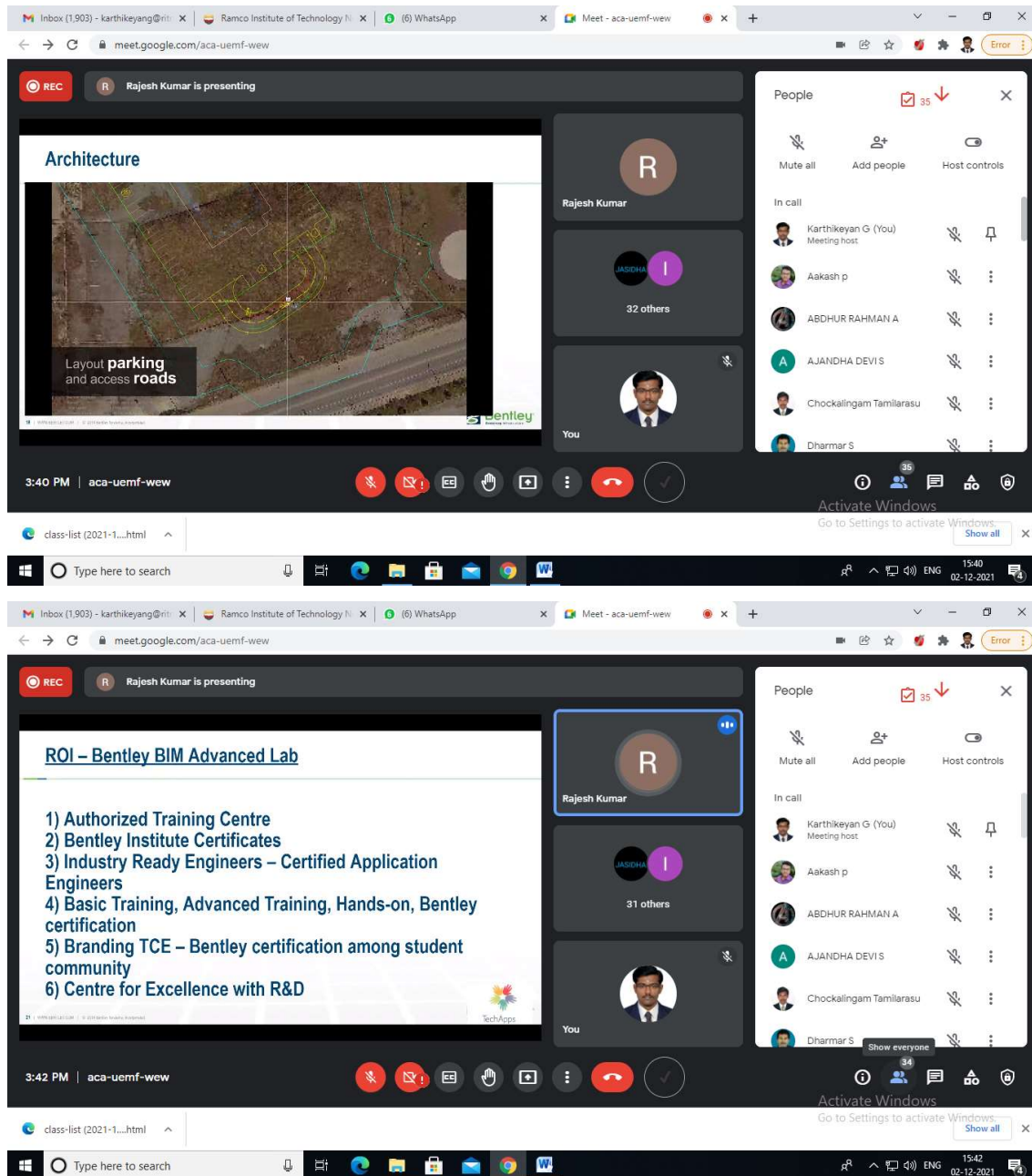
Brochure

## Participation Details:

The programme was started at 03:00 PM through Google meet platform. Mr.G.Karthikeyan, Assistant Professor (Sr.Gr.)/Civil welcomed the gathering and introduced the speaker **Mr.Rajesh Kumar, Director, Technical Services, TechApps Consulting, Chennai**. He talked about “**Bentley BIM Advanced Software Education Program for Academic**” in this session was 36 (Engineers & Students) were participated and the session ended with Q&A and vote of thanks at 04:30 PM. Mr.G.Karthikeyan, Assistant Professor (Sr.Gr.)/Civil proposed vote of thanks.

## Glimpses of Guest lecture





### **Feedback:**

All the participants gave positive feedback and they are willing to hear from the same speaker once again.

### **Acknowledgement:**

We would like to express our sincere thanks and gratitude to our Management, Principal, Vice-Principal for accepting our proposal for conducting this guest lecture.



# RAMCO INSTITUTE OF TECHNOLOGY

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NAAC Accredited Institution

Department of Civil Engineering  
Academic Year 2021 – 2022 (Even Semester)

## Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Reality Modeling
02.	Programme Theme	Software training
03.	Programme Type	A Webinar
04.	Details of resource person	Mr.S.Rajesh Kumar, Director, TechApps Consulting, Chennai
05.	Mode & Venue / Platform	Online mode-Google Meet & Seminar Hall
06.	Date & Duration	18.05.2022 & 2 hours
07.	No. of Student Participants	60
08.	No. of Faculty Participants	10
09.	No. of External Participants	-
10.	Expenditure amount (if any)	-
11.	Social Media URL	<a href="https://www.facebook.com/search/top/?q=rit%20civil%20department">https://www.facebook.com/search/top/?q=rit%20civil%20department</a>
12.	Video URL (if any)	<a href="https://www.youtube.com/watch?v=nHRYfB4U7F0&amp;t=3691s">https://www.youtube.com/watch?v=nHRYfB4U7F0&amp;t=3691s</a>

### **13. Objective of the Programme:**

Reality modeling is the process of capturing the physical reality of an infrastructure asset, creating a representation of it, and maintaining it through continuous surveys. Capture, process, or reuse existing site condition data with our 3D imaging and point-cloud processing software. Streamline capture-to-model workflows, eliminate time-consuming translations, and accelerate image and point-cloud data performance to provide precise digital context for design, construction, and operations decisions. Hence the objective of this program is to inculcate the knowledge about Reality Modeling software among students community.

### **14. Detail description of the activity:**

A **Webinar on Reality Modeling** was organized on 18<sup>th</sup> May 2022 in association with Civil department and ICI students chapter in the online platform Google Meet and Civil Seminar Hall. The guest lecture was delivered by **Mr.S.Rajesh Kumar, Director, TechApps Consulting, Chennai** for II Year, III Year and IV Year Civil Engineering students and faculty members. In his lecture he briefly explained the benefits of Reality Modeling and he explained about Bentley software features, uses and its application in the field of Infrastructures.

Mrs.A.Leema Margret, AP/Civil welcomed the chief guest. Mrs.D.Darling Helen Lydia, AP/Civil introduced the chief guest. 60 students and 10 faculty members got benefitted through this program. Mr.G.Karthikeyan, AP(SG)/Civil and Mrs.A. Leema Margret, AP/Civil Coordinated the event.

### **15. Banner / flyer of the programme:**

**RAMCO INSTITUTE OF TECHNOLOGY**  
 Rajapalayam - 626 117, Tamilnadu, India  
 (Approved by AICTE and Affiliated to Anna University, Chennai)  
 An ISO 9001:2015 Certified and NAAC Accredited Institution

**Department of Civil Engineering**  
 &  
 ICI Student Chapter Jointly organizes

**Virtual Webinar**  
 on  
**Reality Modeling**

**18.05.2022(WED)**  
**11:00 AM**

**TechApps**   **Bentley Education**

**Resource Person**  
**Mr.S.Rajesh Kumar**  
 Director Technical Services  
 TechApps Consulting  
 Chennai

**Target Audience:**  
**Faculty Members & Students of RIT**

**Online Platform:**  
  
**Google Meet**

**Join Now**  
<https://meet.google.com/rmn-zfow-xjx>

**Chief Patron**  
 Dr.L.Ganesan  
 Principal

**Patron**  
 Dr.S.Rajakarunakaran  
 Vice Principal

**Convener**  
 Mr.S.Dharmar  
 HOD/Civil

**Faculty Coordinator(s)**  
 Mr.G.Karthikeyan, AP/Sr.Gr/Civil  
 Mrs.A.Leema Margret, AP/Civil

[www.ritrjpm.ac.in](http://www.ritrjpm.ac.in)  [ritrjpmcivil](https://www.facebook.com/ritrjpmcivil)  [ritcivil](https://www.instagram.com/ritcivil)  [ritcivil](https://www.youtube.com/ritcivil)

## 16. Programme Photographs:





**Prepared by:**

**Approved by:**



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An ISO 9001: 2015 Certified Institution

NAAC Accredited Institution

Department of Civil Engineering  
Academic Year 2021 – 2022 (Odd Semester)

## Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Online webinar
02.	Programme Theme	<b>Standard Operating Procedure for Bentley Certification</b>
03.	Programme Type	Webinar
04.	Details of resource person	Mr.S.Rajesh Kumar, Director Technical services, TechApps Consulting Services, Chennai
05.	Mode & Venue / Platform	Online & Google Meet
06.	Date & Duration	19.05.2022, 2 Hours
07.	No. of Student Participants	-
08.	No. of Faculty Participants	12
09.	No. of External Participants	Nil
10.	Expenditure amount (if any)	Nil
11.	Social Media URL	<a href="https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php">https://www.ritrjpm.ac.in/departments/civil-engg/civil-engg-program-organized-expert-lecture-guest-lecture.php</a>
12.	Video URL (if any)	-

### 13. Objective of the Programme:

Academic Services engages students with a holistic, individualized, student-centered approach by valuing what each person uniquely brings to our community. It is committed to supporting every student's academic and personal development while cultivating student agency.

### 14. Detail description of the activity:

Department of Civil Engineering in association with RIT Structa organized an Online webinar on "Standard Operating Procedure for Bentley Certification" on 19.05.2022 exclusively for the faculty members of Civil department. The resource person for this session was Mr.S.Rajesh Kumar, Director Technical services, TechApps Consulting Services, Chennai. He discussed about the various certification programs offered by Bentley and he also explained the step by step procedure for the benefit of both students as well as faculty members.

### 15. Banner / flyer of the programme:

**RAMCO INSTITUTE OF TECHNOLOGY**  
Rajapalayam - 626 117, Tamilnadu, India  
(Approved by AICTE and Affiliated to Anna University, Chennai)  
An ISO 9001:2015 Certified and NAAC Accredited Institution

Department of Civil Engineering  
&  
ICI Student Chapter Jointly organizes

Virtual Webinar  
on  
**Reality Modeling**

18.05.2022(WED)  
11:00 AM

TechApps

**Resource Person**  
**Mr.S.Rajesh Kumar**  
Director Technical Services  
TechApps Consulting  
Chennai

**Target Audience:**  
Faculty Members &  
Students of RIT

**Online Platform:**  
Google Meet

<https://meet.google.com/rmn-zfow-xjx>

**Chief Patron**  
Dr.L.Ganesan  
Principal

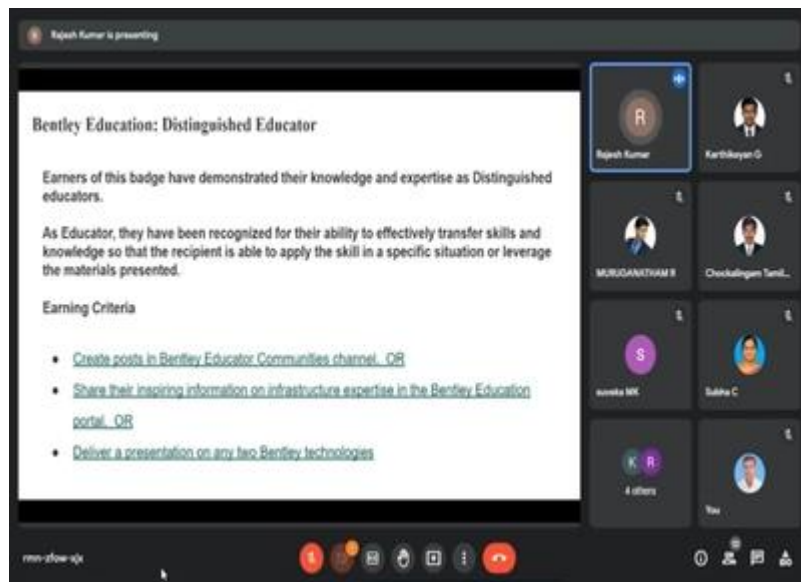
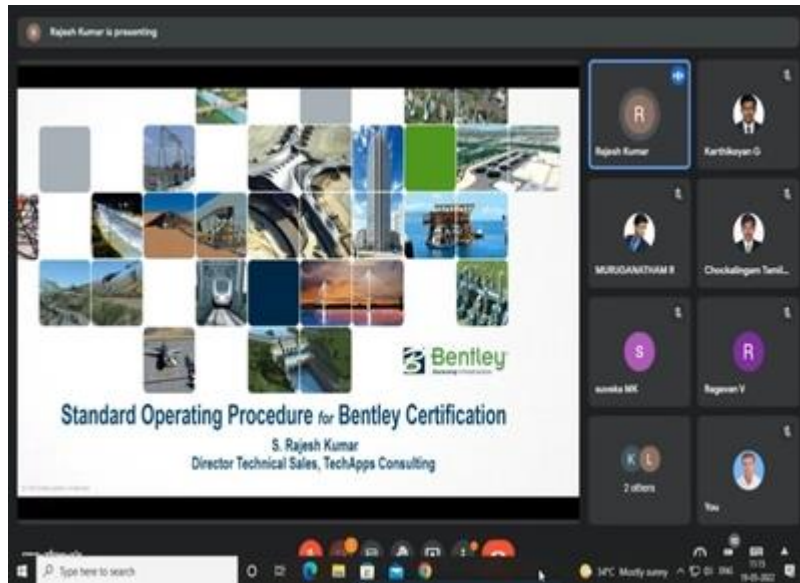
**Patron**  
Dr.S.Rajakarunakaran  
Vice Principal

**Convenor**  
Mr.S.Dharmar  
HOD/Civil

**Faculty Coordinator(s)**  
Mr.G.Karthikeyan, AP(Sr.Gr)/Civil  
Mrs.A.Leema Margret, AP/Civil

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## 16. Programme Photographs:



Prepared by:

Approved by

**Department of Computer Science  
and Engineering**



# RAMCO INSTITUTE OF TECHNOLOGY RAJAPALAYAM

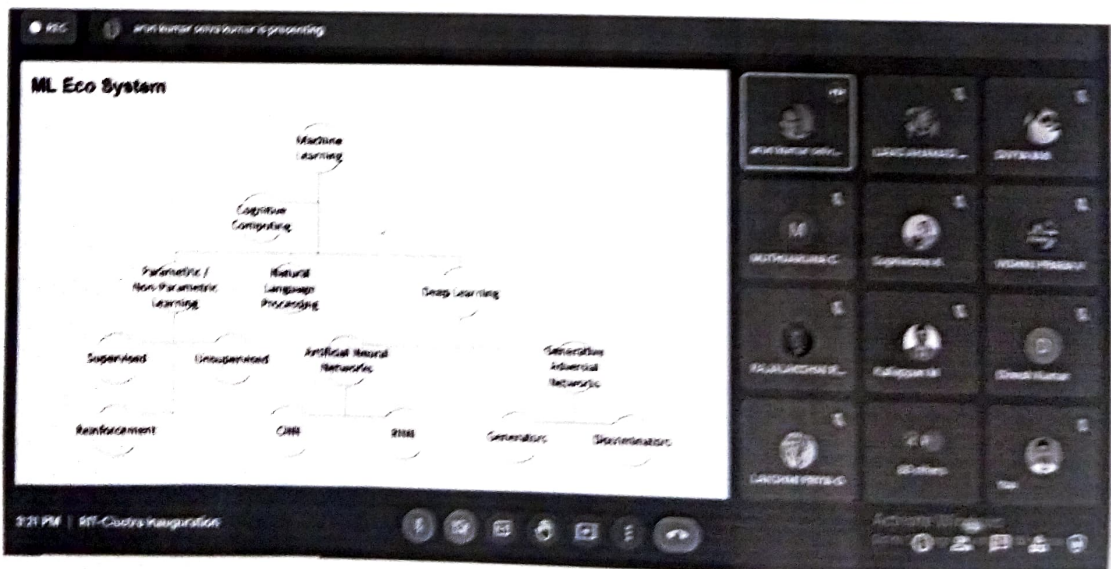
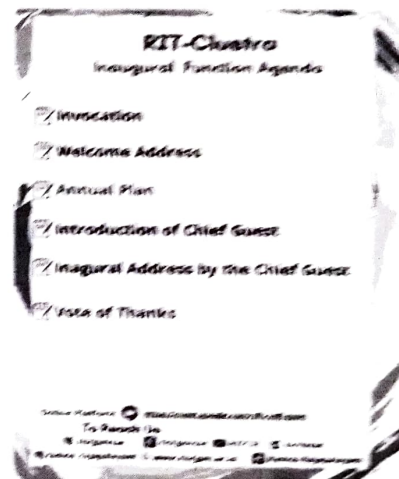
Academic Year 2021-2022

## Department of Computer Science and Engineering INAUGURAL FUNCTION REPORT



Department of Computer Science and Engineering Association 'RIT-CLUSTRA' carried out its inaugural function successfully along with a Guest Lecture by **Mr. Arun Kumar S**, Sr. Research Scientist, Amazon, Chennai on 28.08.2021

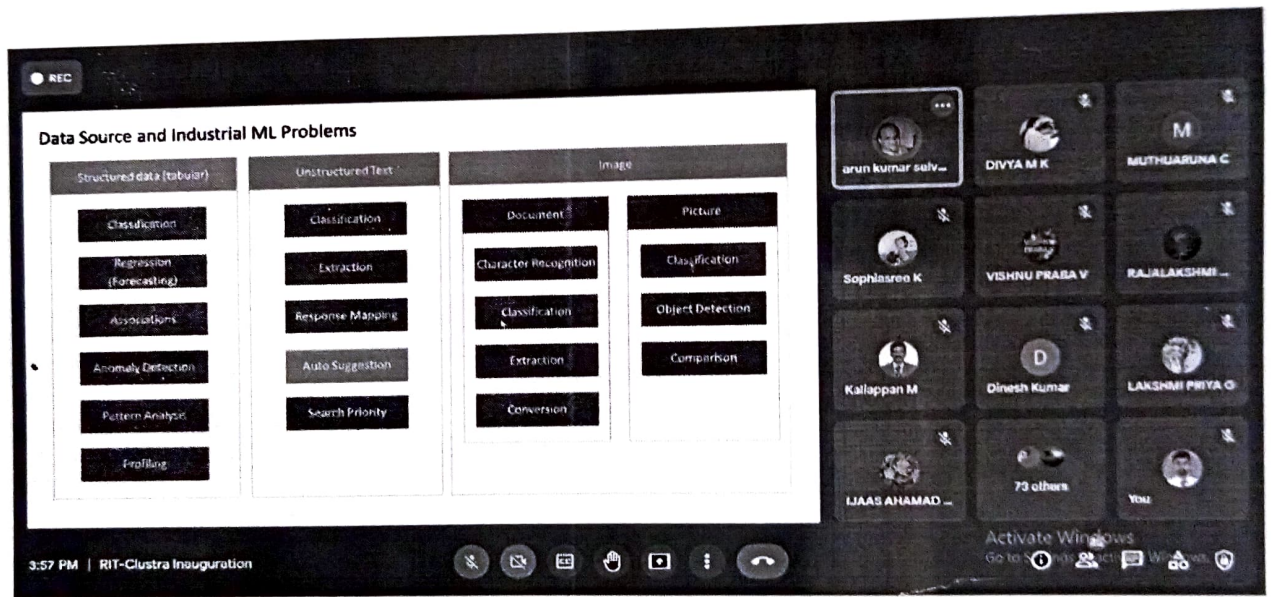
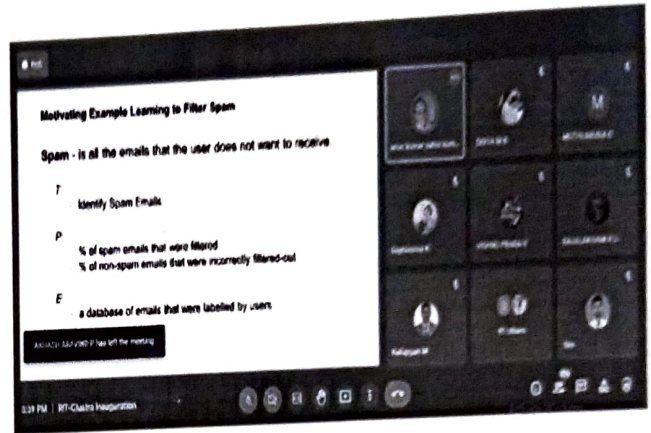
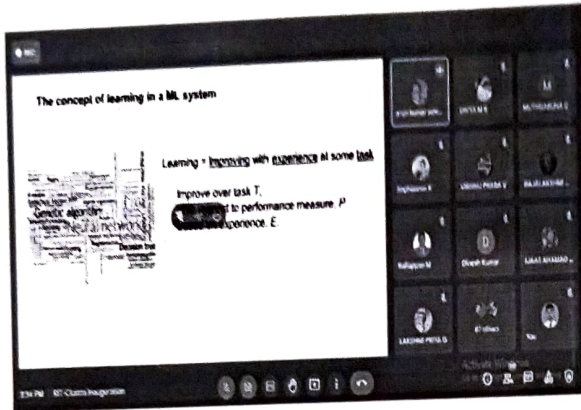
**Ms. Rajalakshmi R U**, II Year CSE welcomed the gathering. **Ms. Vishnu Prabha**, IV year CSE,, read out "RIT-CLUSTRA's Annual plan for the Academic Year 2021-2022 which includes the plan for Technical Quiz Competition, Guest Lecture on Cryptography and Networking, Value added Course, Gaming Event on Soft Skills, Mini Project Expo, Math Puzzles and Logical thinking Event, Mock Interview etc. **Ms. C. Muthuvaruna**, III year CSE introduced the chief guest.



The Chief Guest **Mr. Arun Kumar S** addressing the students

The Chief Guest **Mr. Arun Kumar S** delivered a Guest Lecture on “Recent trends in Artificial intelligence and Data science” for the II-year and III-year CSE students.

The session started with the ML Eco System and different types of Machine Learning techniques used in research as well as industry sectors. The speaker gave clarity on how learning could be done in a ML system and he explained the same by using a simple example. Later on, he explained the data source and industrial problems and their types. The session ended with feedback from the students.



Inaugural function was successfully completed with the Vote of Thanks delivered by **Ms. Lakshmi Priya G**, II year CSE.

*[Signature]*  
28/8/21  
**Faculty In-charge**

*[Signature]*  
28/8/2021  
**HOD-CSE**

# RAMCO INSTITUTE OF TECHNOLOGY

Rajapalayam

## Department of Computer Science and Engineering

### Workshop Report

**Event Name:** Workshop on ReactJS with Git and Surge

**Date & Time:** 11.09.2021, 11.30 am

**Number of Participants:** 100

**Resource Persons:** Mr.P.Vinoth Rajan, Software Engineer, Tech Mahindra

Department of Computer Science and Engineering in association with Alumni Association organized a Workshop on **Introduction to React Js with Git and Surge** for **II and III year CSE students** on 11.09.2021 at 11.30am. The resource person of the program is **Mr.P.Vinoth Rajan, Software Engineer, Tech Mahindra (Bate 2014-2018)**. Basic introduction of HTML and CSS, Importance of Java scripts, Need of React JS and comparison of a website With and Without React JS was demonstrated detailly using visual studio. The importance of **State and Props in ReactJs** was highlighted. Git and its commands were demonstrated along with its purpose. Around 100 students actively participated. Finally the session was ended with Vote of Thanks by Ms.G.Sakthi Priya, AP/CSE

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ALUMNI ASSOCIATION AND  
DEPARTMENTS OF COMPUTER SCIENCE  
AND ENGINEERING  
Jointly presents

**Mr. P. Vinoth Rajan**  
Software Engineer,  
Tech Mahindra

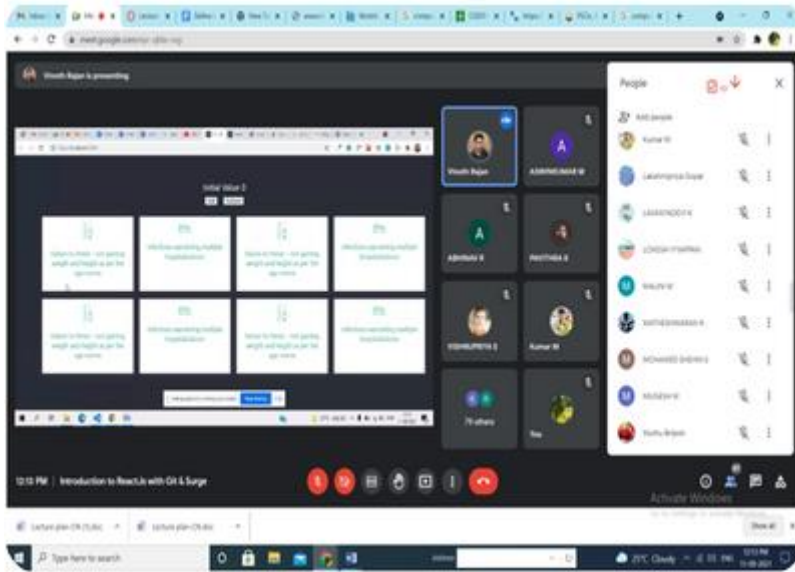
**WORKSHOP ON  
INTRODUCTION  
TO REACTJS  
WITH GIT &  
SURGE**

**Date: 11/09/2021**  
**Time: 11.30 am - 12.30 pm**

**Platform: meet.google.com/epr-qbkx-vsg**

Chief patron	Patron	Convener	Faculty Coordinator
Dr. L. Ganesan, Principal	Dr. S. Raja karunakaran, Vice Principal	Dr. K. Vijayalakshmi, HOD-CSE	Mrs. M. Suresha, AP/SG/CSE, Ms. G. Sakthi Priya, AP/CSE.

Department of CSE | Ritzjpmcse | Department of CSE | EITCSE





RAMCO INSTITUTE OF TECHNOLOGY  
RAJAPALAYAM

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

RIT - CLUSTRA

CIRCULAR



Chief Patron

Dr. L. Ganesan, Principal

Patron

Dr. S. Rajakarunakaran, Vice-Principal

Head of the Department

Dr. K. Vijayalakshmi

Faculty Advisors

Dr. R. Venkatesh, AP (SG) / CSE

Student Coordinator (s)

Mr. Nanneboina Sumanth, IV CSE

Mr. Rahini, IV CSE

Ms. Saravana Jothi G, II CSE

Ms. S. Shanmugapriya, II CSE

Mr. Jothi Lingapandian M

Ms. Venesha L, II CSE

Mr. N. Dhiraj, II CSE

Mr. Sivakumar P, II CSE

Event Name : Guest Lecture on Scrum  
Agile Framework

Date : 16.04.2022

Time : 04.00 PM

Participants : II year CSE

Platform : Online Platform Google  
Meet

Resource Person : Ms. M. Muthu Lakshmi  
(Batch 2014-2018)  
Software Engineer  
Solartis, Madurai

*P. A. K. S. Saravana Jothi*  
Student In-charge(s)  
(Ms. Saravana Jothi G, II CSE)  
(Mr. Sivakumar P, II CSE)

*11/4/22*  
Faculty In-charge  
*(Ms. Saravana Jothi G, II CSE)*

*K. S. Shanmugapriya*  
HOD-CSE

*K. S. Shanmugapriya*  
Co-Curricular Coordinator

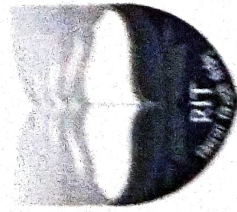
*(Signature)*  
Vice-Principal

*(Signature)*  
Principal

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Department of Computer Science and Engineering

## CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. Gopiy K.J. of II Year has attended a Guest Lecture on "SCRUM AGILE FRAMEWORK" organized by RIT-Clustra, IE(I) CSE and Alumni Association Department of Computer Science and Engineering, Ramco Institute of Technology, on April 16th, 2022.

*Periy*

MR.R.VENKATESH  
Faculty Advisor

*Periy*

DR.K.VIJAYALAKSHMI  
President

DR.L.GANESAN  
Principal

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RAMCO INSTITUTE OF TECHNOLOGY  
RAJAPALAYAM

Academic Year 2021-2022

Department of Computer Science and Engineering  
GUEST LECTURE REPORT



The Department of Computer Science and Engineering Association 'RIT-Clustra', IE (I) CSE and RIT Alumni Association jointly organized a Guest Lecture on "SCRUM AGILE FRAMEWORK" and this lecture was delivered by Ms. M. Muthu Lakshmi, (Batch 2014-2018), Software Engineer, Solartis, Madurai on 16.04.2022.



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RIT-CLUSTRA & Alumni Association Jointly Organizes

Guest lecture on

"SCRUM AGILE FRAMEWORK"



Resource Person

Ms.M.MUTHU LAKSHMI

(BATCH 2014-2018)

Software Engineer

Solartis, Madurai



Date:16.4.2022

Time: 4 PM



Platform GMeet



ramco\_rajapalayam



ritrjpmcse



RITCSE



ritrjpmcse

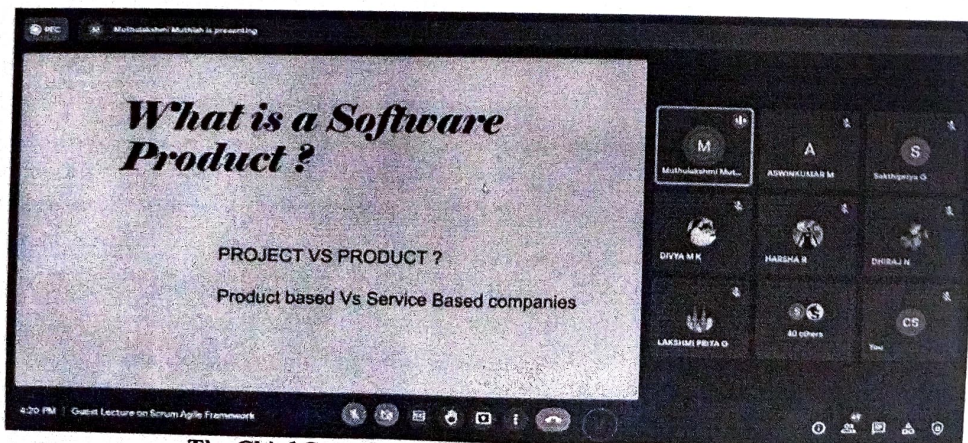


www.ritrjpm.ac.in



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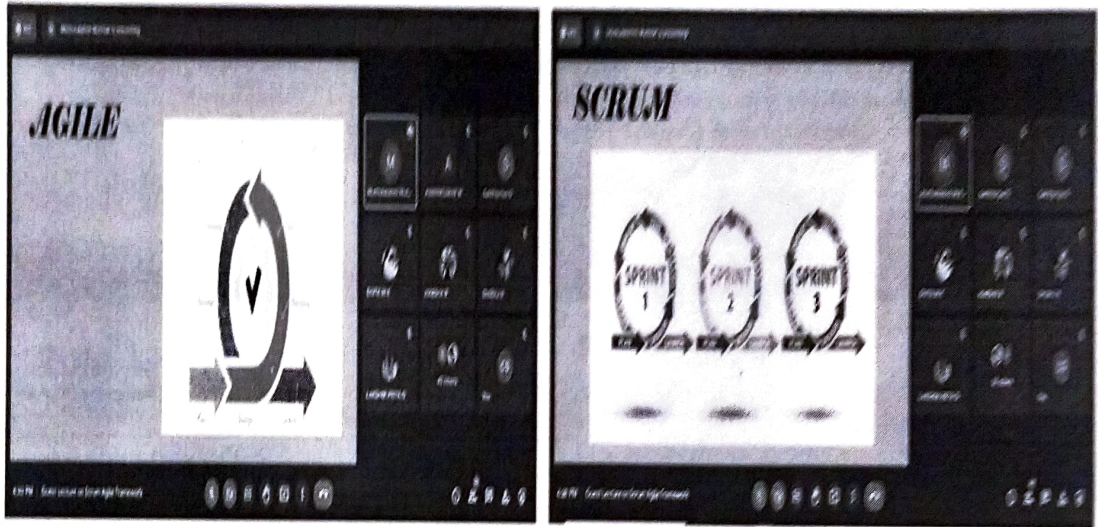
Ms.Rajalakshmi R U, II Year CSE welcomed the gathering and Ms.C.Muthuaruna, III year CSE introduced the chief guest.



The Chief Guest Ms. M. Muthu Lakshmi addressing the students

The Chief Guest Ms. M. Muthu Lakshmi delivered a Guest Lecture on "Scrum Agile Framework" for the II-year and III-year CSE students. Around 40 students participated in this guest lecture.

The session was started with the Software Process Model and its different types such as Waterfall, Spiral and Incremental Model used in software projects as well as industry sectors. The speaker gave clarity on how the Agile and Scrum Models are used in real time projects and she explained the same by using a simple example. Later on, she explained the Scrum product and sprint backlog with industrial problems. The session ended with feedback from the students.



The Guest Lecture was successfully completed with the Vote of Thanks delivered by Ms.Lakshmi Priya G, II year CSE.

Programme Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO11	PO12
	3	3	2	2	1	2	1	3

*[Signature]*  
5/3/2022  
Faculty In-charge

*[Signature]*  
23/10/2022  
HOD-CSE



**RAMCO INSTITUTE OF TECHNOLOGY  
RAJAPALAYAM**

**Academic Year 2021-2022**

**Department of Computer Science and Engineering**

**CAREER GUIDANCE CELL**



**ORIENTATION PROGRAM ON GOVERNMENT JOB OPPORTUNITIES FOR  
ENGINEERING STUDENTS REPORT**

- Event name** : **Student Orientation Program on Government Job Opportunities for Engineering Students**
- Date & time** : 29.04.2022 & 3.00pm to 04.00pm
- Venue** : CSE Seminar Hall
- Number of Participants** : 60 Students from II and III Year CSE and EEE

The Department of Computer Science and Engineering Association 'RIT-CLUSTRA', RIT- Career Guidance Cell and RIT Alumni jointly carried out its orientation program on Gate Awareness Program successfully on 29.04.2022 for the II and III year students. It has exposed their Government job opportunities for engineering graduates, to provide a govt., exam awareness, and opportunities and to prepare students for one of their most important tests, the TNPSC Group I, II and II-A and IV, and to help them achieve their goal of passing one of the most important exams of their lives.

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**RIT-CLUSTRA**  
**IN ASSOCIATION WITH**  
**CAREER GUIDANCE CELL**  
*Organizes Student Orientation Program on*  
**"Government Job Opportunities for  
Engineering Students"**

Resource Person  
**MRS.R.JAYAPRIYA**  
Senior Inspector,  
Deputy Registrar of Cooperative Society

 **Date: 29.04.2022 Srivilliputhur**  
**Time: 3 PM** **Venue**  
**CSE Seminar Hall**

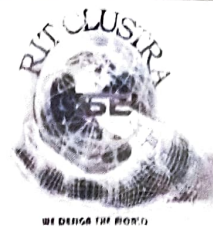
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
RIT – CLUSTRA in Association with RIT-Career Guidance Cell**



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**Patron**

Dr.S.Rajakarunakaran, Vice-Principal

**Head of the Department**

Dr. K. Vijayalakshmi

**Faculty Advisors**

Dr. R. Venkatesh, AP (SG) / CSE

**Student Coordinator (s)**

Mr.Nanneboina Sumanth, IV CSE

Mr.Rahini ,IV CSE

Ms.Saravana Jothi G, II CSE

Ms.Venesha L, II CSE

Mr.N.Dhiraj, II CSE

Mr.Sivakumar P, II CSE

Ms.Lakshmi Priya G, II CSE

Ms.Divya M K, II CSE

**Event Name : Student Orientation Program  
on Government Job  
Opportunities for  
Engineering Students**

**Date : 29.04.2022**

**Time : 03.00 PM**

**Participants : All Students - Members of CGC  
Cell**

**Venue : CSE Seminar Hall**

**Resource Person : Mrs.R.JAYAPRIYA**  
Senior Inspector,  
Deputy Registrar of  
Cooperative Society  
Srivilliputhur

*S. Saravana Jothi*  
*P. Sivakumar*  
**Student In-charge(s)**  
(Ms.Saravana Jothi G, II CSE)  
(Mr.Sivakumar P , II CSE)

*R. Jayapriya*  
**Faculty In-charge**

*K. Venkatesh*  
**HOD-CSE**

*K. Venkatesh*  
**Co-Curricular Coordinator**

*L. Ganesan*  
**Vice-Principal**

*L. Ganesan*  
**Principal**  
*29/4/22*

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PO1	PO2	PO3	PO6	PO8	PO9	PO12
1	1	1	2	2	2	2



**RAMCO INSTITUTE OF TECHNOLOGY  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
Institution of Engineers (India)**



**CIRCULAR**

**20.10.2021**

**Chief-Patron**

Dr. L. Ganesan, Principal

**Patron**

Dr.S.Rajakarunakaran, Vice-Principal

**Head of the Department**

Dr. K.Vijayalakshmi, HOD/CSE

**Faculty In-charge**

Mr. K. Vignesh Saravanan, AP/ CSE

**President**

Mr. Suryakumar S, IV CSE

**Vice-President**

Ms. Rahini G, IV CSE

**Secretary**

Mr. Kishore Kumar S (III CSE)

**Joint-Secretary**

Ms. Vidhya V (III CSE)

**Treasurer**

Ms. Sangeetha P (III CSE)

**Event Name : Seminar on "Learning in Virtual labs"**

**Event Description:**

It is to inform that Department of CSE in association with IE(I) Student Chapter CSE planned to organize a "**Seminar on Virtual labs**" for III year CSE students on **21.10.2021**. The seminar will give you an exposure on Virtual learning platform. The students are encouraged to make use of it. **Mr.A.Esakkiraja, IV year CSE**, will explain how to use the Virtual lab platforms.

**Date** : 21.10.2021 ✓

**Time** : 03.00 pm – 03.50 pm ✓

**Venue** : CSE Seminar Hall

**Participants** : III year students ✓

**Student Coordinator(s)**

Ms. Vignesh A (III CSE)

Mr. Vijay Aadhithya M (III CSE)

<b>Programme Outcome</b>	<b>PO1</b> Engineering knowledge	<b>PO2</b> Problem analysis	<b>PO3</b> Design /development of solutions	<b>PO4</b> Conduct investigations of complex problems	<b>PO5</b> Modern Tool usage	<b>PO9</b> Individual and Team Work
	<b>3</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>

*A. Vignesh*

**Student Coordinator(s)**

Ms. Vignesh A (III CSE)

Mr. Vijay Aadhithya M (III CSE)

*Mr.K.Vignesh Saravanan*

**Faculty Coordinator(s)**  
Mr.K.Vignesh Saravanan, AP/CSE

*HOD/CSE &*

**Co-Curricular Coordinator**

*Vice-Principal*

*Principal*

- To be mailed to III year CSE students
- To be read in III year classrooms
- Copy to: File



**Details of Technical Activity**

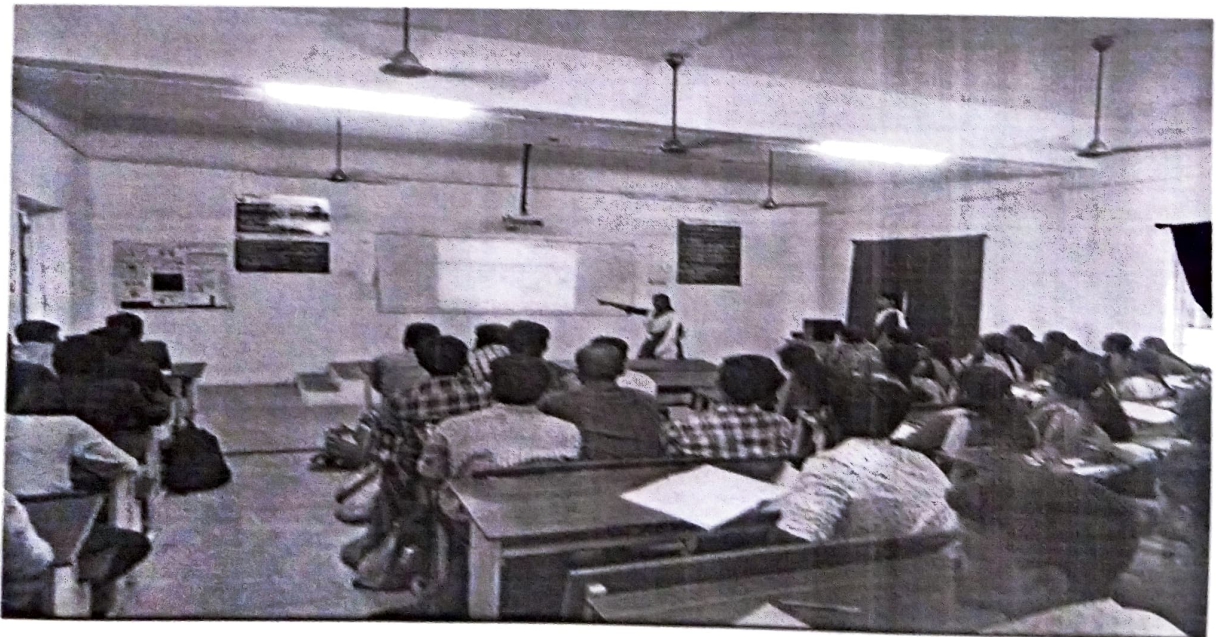
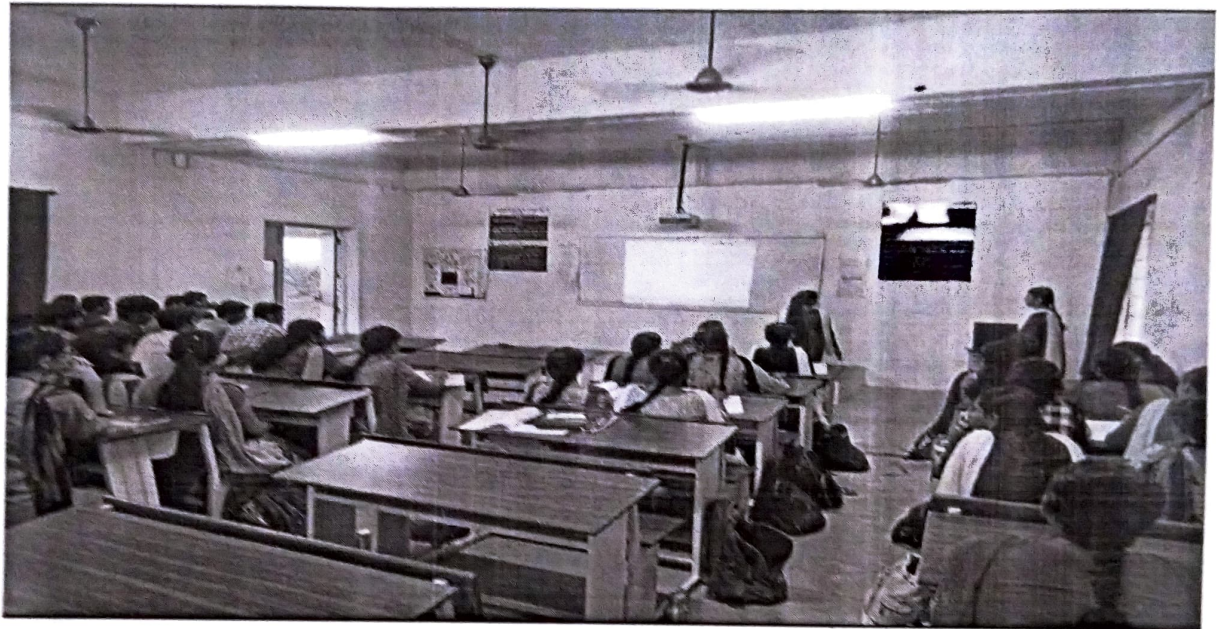
(Seminar on Virtual Lab)

**Title /Theme: "SEMINAR ON VIRTUAL LAB"**

**Date: 21.10.2021**

**Duration: 3.00 PM to 3.50 PM (Conducted in CSE III year classroom)**

**No of Students Participated: 57 Students**





Photos: Glimpse of event the resource persons explaining about virtual lab environments

#### Report

The Department of CSE in association with IE (I) Student Chapter CSE organized “Seminar on Virtual Lab” for III year CSE students on 21.10.2021. The students gained knowledge about virtual lab and very much interested in working. The resource persons are Ms.Aswini IV year CSE and Ms.Darshini, IV year CSE. They gave a brief idea and usage of the exercises in virtual lab. Students felt easy and understandable and felt comfortable to work in virtual lab exercises. The event was coordinated by Ms. Vignesh A (III CSE) and Mr. Vijay Aadhithya M (III CSE)

Signature of the Faculty Advisor  
with date affixed with seal



**RAMCO INSTITUTE OF TECHNOLOGY  
RAJAPALAYAM**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
Institution of Engineers (India)**



CIRCULAR

19.11.2021

**Chief-Patron**

Dr. L. Ganesan, Principal

**Patron**

Dr.S.Rajakarunakaran, Vice-Principal

**Head of the Department**

Dr. K.Vijayalakshmi, HOD/CSE

**Faculty In-charge**

Mr. K. Vignesh Saravanan, AP/ CSE

**President**

Mr. Suryakumar S , IV CSE

**Vice-President**

Ms. Rahini G, IV CSE

**Secretary**

Mr. Kishore Kumar S (III CSE)

**Joint-Secretary**

Ms. Vidhya V (III CSE)

**Treasurer**

Ms. Sangeetha P (III CSE)

**Event Name : Guest Lecture on "Cloud Computing"**

**Event Description:**

It is to inform that Department of CSE in association with IE(I) Student Chapter CSE planned to organize a **Guest Lecture on "Cloud Computing"** for I, II and III year CSE students on **21.11.2021**.

**Resource Engine : Mr.P.Kumarsamy,  
AWS, Google Certified Cloud Architect,  
TCS, Chennai**

**Date : 21.11.2021**

**Time : 10.00 am – 11.00 am**

**Participants : I, II and III year CSE students**

**Topic : Cloud Computing**

Programme Outcome	PO1 Engineering knowledge	PO2 Problem analysis	PO3 Design /development of solutions	PO4 Conduct investigations of complex problems	PO5 Modern Tool usage
	3	2	3	1	2

*Vijaya Lakshmi*

**Student Coordinator(s)**

Ms. Sri Darshini M B (IV year CSE) *Sri Darshini*

Ms. Vijaya Lakshmi S (IV year CSE)

*Dr. V. Anusuya*  
**Faculty Coordinator(s)**

Dr.V.Anusuya, ASP/CSE

Dr.M.Gomathy Nayagam, ASP/CSE

*K. Vignesh Saravanan*  
**HOD/CSE &**

**Co-Curricular Coordinator**

*Suryakumar S*  
**Vice-Principal**

*L. Ganesan*  
**Principal**  
19/11/21

- To be mailed to IV year CSE students
- To be read in IV year classrooms and notice board
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year: 2021-22 (Odd Semester)

19.11.2021

### Submitted to the Principal:

Sir,

**Sub:** Requesting permission to conduct guest lecture for IV year Computer Science and Engineering reg.

We wish to conduct one day guest lecture for our IV year CSE students on 21.11.2021 (Sunday) as per the schedule given below.

Session	Time	Expert Details	Topic	Course Relevance
1	11.00 A.M To 12.30 Noon	Mr.P.Kumarsamy, AWS, Google Certified Cloud Architect, TCS, Chennai	"Google App Engine"	<b>CS8791 : Cloud Computing</b> <b>Unit V: Cloud Technologies</b>

Hereby we request you to kindly give permission to organize this programme.

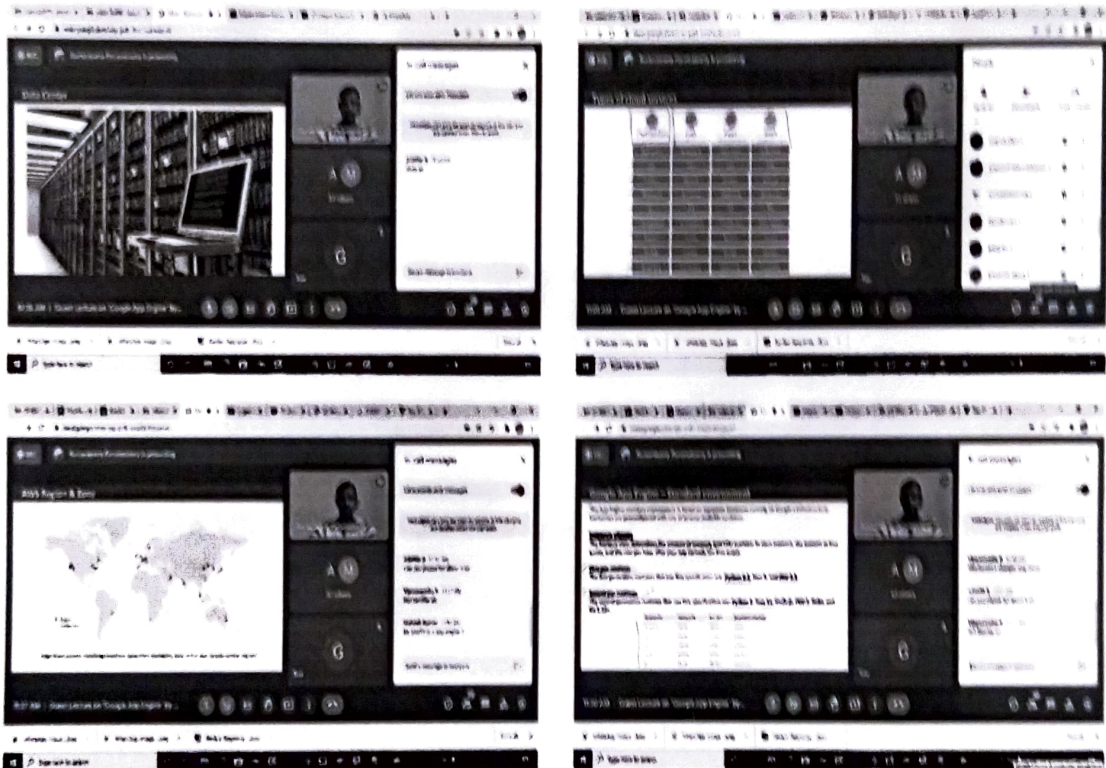
*[Signature]*  
Faculty In-charge

*[Signature]*  
HOD-CSE

*[Signature]*  
Principal 19.11.21

**Details of Technical Activity**

(Guest Lecture)

**Title/Theme: Guest Lecture on "Google App Engine"****Date: 21.11.2021****Duration: 10.00 AM to 11:30 AM****No of Students Participated: 73 students of CSE****Photos:** Resource person explaining various cloud computing techniques in the session**Report**

The Department of CSE in association with IE (I) Student Chapter CSE organized a Guest Lecture for the Subject "CS8791 Cloud Computing" on Google App Engine for IV year CSE students on 21.11.2021 at 10.00 am. The session was started with welcome address by Ms.M.B.Sridharshini, Student, IV CSE and Ms. P.Sabna Devi, IV CSE student introduced the resource person. The resource person of the program is Mr.P.Kumarasamy, AWS, Google Certified Cloud Architect, Tata Consultancy Services (TCS). He started his lecture from virtualization and explained about the basic introduction of Cloud computing, various service and deployment model of Cloud computing and he demonstrated to deploy the .net application in Google App Engine. 73 students of both IV year, 1 year and IE(I) CSE members got benefited. Finally the session was ended with vote of thanks by Ms.S.Vijayalakshmi, IV CSE students. The guest lecture was coordinated by Dr.V.Anusuya, ASCP/CSE and Dr.M.Gomathy Nayagam, ASCP/CSE under the guidance of Dr.K.Vijayalakshmi, Prof. & Head, CSE.

Signature of the Faculty Advisor

with date affixed with seal



### Details of Technical Activity

(Guest Lecture)

Title /Theme: Guest Lecture on "Java Spring Boot Microservices"

Date: 24.12.2021

Duration: 09.30 AM to 11:00 AM

No of Students Participated: 60 students of II year CSE

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
In association with  
**IE(I) CSE Student Chapter**  
Organizes Guest Lecture on

**Java Spring Boot Microservices**

**Mr.T.N.Nivek,**  
Software Engineer,  
Coimbatore. Cognizant

Event Date: 24.12.2021 Time: 09.30 A.M To 11.00 A.M  
Google Meet Link: <https://meet.google.com/uwg-vbgr-vue>

<b>Faculty Co-ordinators</b> Mrs.N.Nithya AP/CSE	<b>Convenor</b> Dr.K.Vijayalakshmi HOD/CSE	<b>Patron</b> Dr.S.Rajakarunakaran Vice Principal	<b>Chief Patron</b> Dr.L.Ganesan Principal
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[ritrjpmcse](https://www.linkedin.com/company/ritrjpmcse)

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Photo-1: Screenshot of the Poster for the Guest Lecture "Java Spring Boot Microservices"

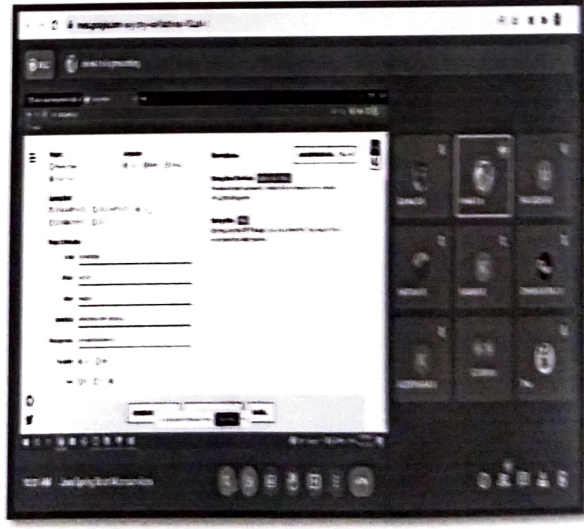
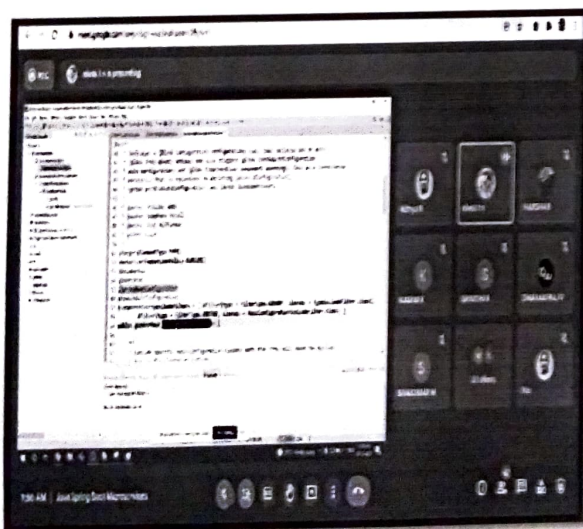


Photo-2: Resource person explaining the session by executing the developed application on the server



Engg College



/ Polytechnic



**Report**

The Department of CSE in association with IE (I) Student Chapter CSE organized an Industrial Guest Lecture on Java Spring Boot Microservices for 60 students of II Year CSE students on 24.12.2021 at 09.30 am. Mr.T.N.Nivek, Software Engineer, Cognizant, Coimbatore, is the program's resource person. He began the session by introducing the environment used in industry via SDLC, the different types of software applications, and the evolution of Spring Boot. He described the required knowledge and software for developing a Java Spring Boot Microservices application and demonstrated how to build a simple application. Finally, he concluded the session by executing the developed application on the server and encouraging the students to develop applications in the same manner. The guest lecture was coordinated by Mrs.N.Nithya, AP/CSE under the guidance of Dr.K.Vijayalakshmi, Professor & Head/CSE.

Signature of the Faculty Advisor  
with date affixed with seal



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year: 2021-2022 (Odd Semester)

05.01.2022

Submitted to the Principal:

Sir,

**Sub:** Requesting permission to conduct guest lecture for II Year CSE & ECE Students - reg.

We wish to conduct guest lecture for II Year CSE & ECE students on 08.01.2022 (Saturday) as per the schedule given below.

Time	Expert Details	Topic	Course Relevance
10.30 A.M To 12.00 Noon	Mr.S.Anand, Software Development Engineer, Paypal	Industrial Applications of Data Structures	CS8391 - Data Structures & EC8393 - Fundamentals of Data Structures in C

Hereby we request you to kindly give permission to organize this programme.

*[Signature]*  
05/01/22  
Faculty In-charge

*[Signature]*  
05/01/2022  
HOD-CSE

*[Signature]*  
05/01/22  
Vice Principal

*[Signature]*  
Principal  
5/1/22



# RAMCO INSTITUTE OF TECHNOLOGY

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NBA Accredited UG Programs: CSE, EEE, ECE and MECH

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

IE(I) CSE & ISTE Students' Chapter  
Academic Year: 2021-2022 (Odd Semester)

11.01.2022

Submitted to the Principal

Respected Sir,

We have conducted the Guest Lecture on "Industrial Applications of Data Structures" organized by IE(I) CSE and ISTE Students' Chapter. The approximate expenses estimated under various heads are given below. Kindly accord your approval for proceeding further.

Resource Person: Mr.S.Anand, Software Development Engineer, PayPal

Participants: II Year CSE & ECE Students

Sl. No	Items	Approximate Cost (Rs.)
1	Honorarium	3,000.00
	<b>Total</b>	<b>3,000.00</b>

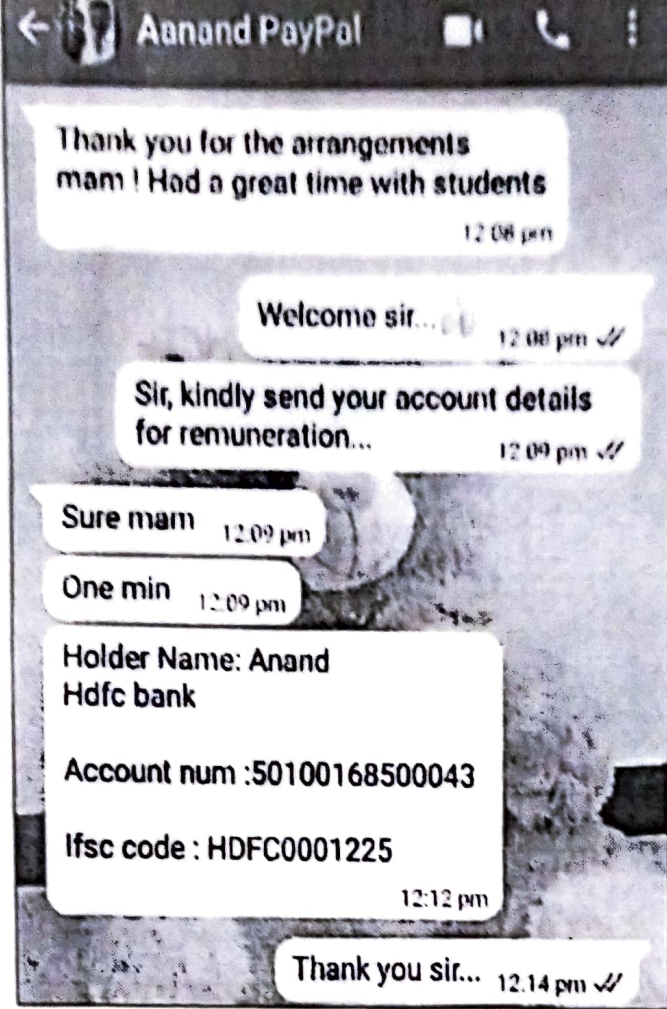
*[Signature]*  
11/01/22  
Faculty Coordinator(s)

*[Signature]*  
10/01/2022  
HOD-CSE

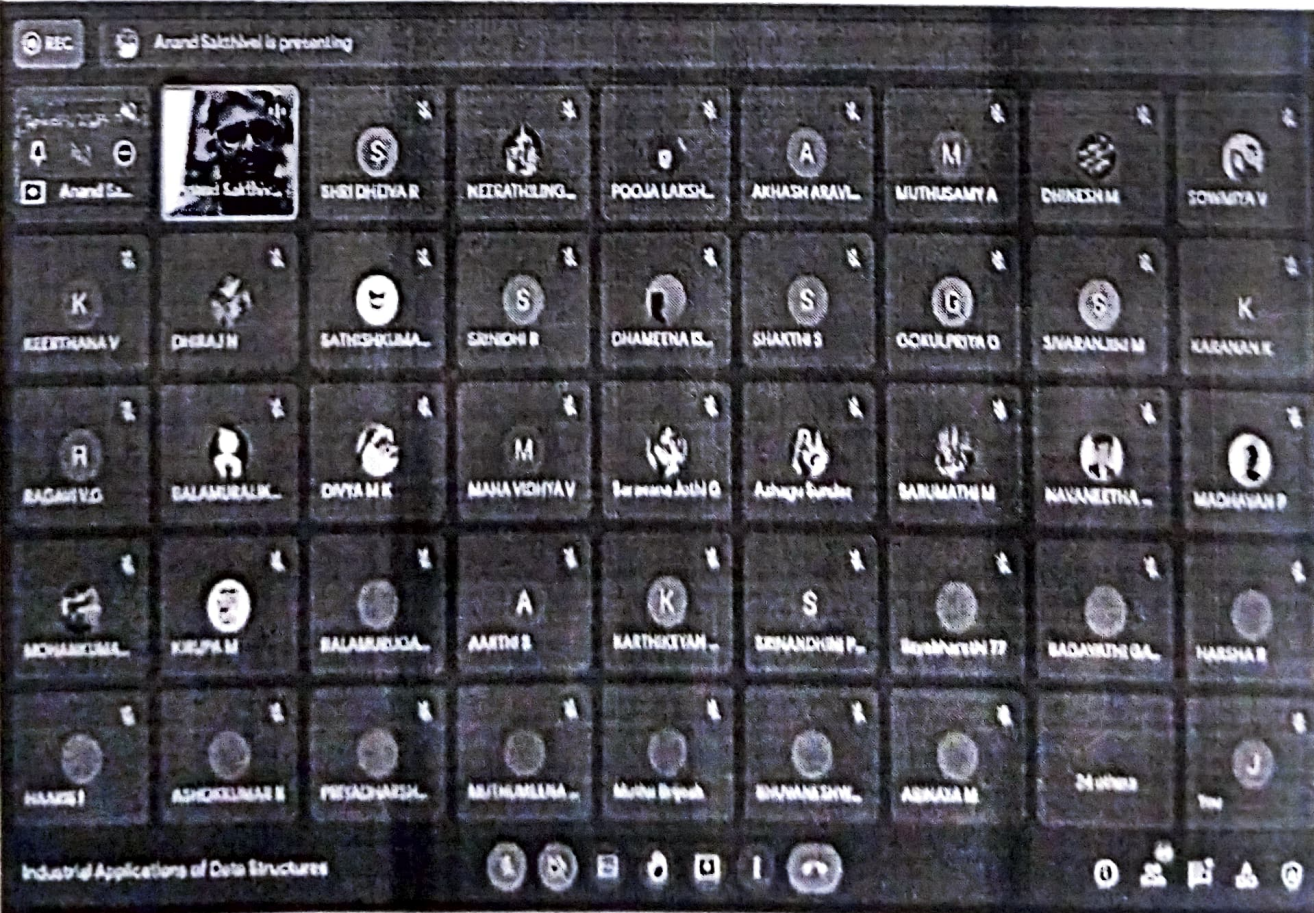
*[Signature]*  
11/01/22  
GM(A)

*[Signature]*  
VICE-PRINCIPAL

*[Signature]*  
11/1/22  
PRINCIPAL



## Attendance Proof



← About this call

People	Information
AARTH S	✗
ABHILAYA M	✗
AGINAZA M	✗
AJHASH ARAVIND P	✗
AASHAYA B	✗
Anand Sakthivel	✗
Anand Sakthivel (Pri...	✗
APARNA B	✗
ASHOKUMAR R	✗
BAGU CHELVA M	✗
Amrigo Sankar Ish	✗

← About this call

People	Information
BAGU CHELVA M	✗
BAGAVATHI GAYATHI	✗
BALAMURUGAN B	✗
BHARATHI LAKSHMI A	✗
BHUVANESHWARI S	✗
DNAMEENA ISMAIL S	✗
DHINESH M	✗
DHIRAJ N	✗
DIYA M K	✗
DIYASRI B	✗
Gnanaguru Vignesh	✗

← About this call

People	Information
Gnanaguru Vignesh	✗
GOKULPRIYA G	✗
GOWTHAM KARTHIK	✗
HAARIS I	✗
HARINISRIVALI V	✗
HARIPRASAD N	✗
HARSHA R	✗
Ilayabharathi T	✗
JAYASURIYA B	✗
JEYARUDHRA	✗
JOE ALAN R S	✗

← About this call

People	Information
KAMINI K	✗
KASANAN K	✗
KARTHIKEYAN P S	✗
KARUNYA V	✗
KEERTHANA V	✗
KRISHNA M	✗
LAKSHANA S	✗
MADHAVAN P	✗
MAHA VIDHYA V	✗
MAHAVIDHYA V	✗
MAHAVIDHYA V	✗

← About this call

People	Information
PRIYADHARSHINI B	✗
RAAMAKRISHNAN VR	✗
RAGANI V G	✗
RAJA LAKSHMI L	✗
RAJALAKSHMI R U	✗
Saravani Jothi G	✗
SARUMATHI M	✗
SATHISHKUMAR K	✗
SHAKTHI S	✗
SHOBINA R	✗
SHIBU DHEVA R	✗

← About this call

People	Information
SATHISHKUMAR K	✗
SHAKTHI S	✗
SHRI DHEIVA R	✗
SNARANJINI M	✗
SNEHA ASVINI V	✗
SRI NANDHINI PRIYA S	✗
SRINIDHI R	✗
SUBHIKSHA G	✗
SUBHIKSHA V	✗
THARANI M N	✗
Vishnu Priya	✗

# Title/Theme: Guest Lecture on "Industrial Applications of Data Structures"

Date: 08.01.2022

Duration: 10.30 AM to 12:00 Noon

No of Students Participated: 80 students of II year CSE & ECE

**RAMCO INSTITUTE OF TECHNOLOGY**  
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DEPARTMENT OF CSE  
in association with  
IEEE, CSE & ISTE STUDENTS' CHAPTER  
ORGANIZING AN INDUSTRIAL GUEST  
LECTURE ON

**"INDUSTRIAL APPLICATIONS OF DATA  
STRUCTURES"**

**08 JAN 10:30 AM**

Google Meet Link:  
<https://meet.google.com/kyf-bbab-ftt>

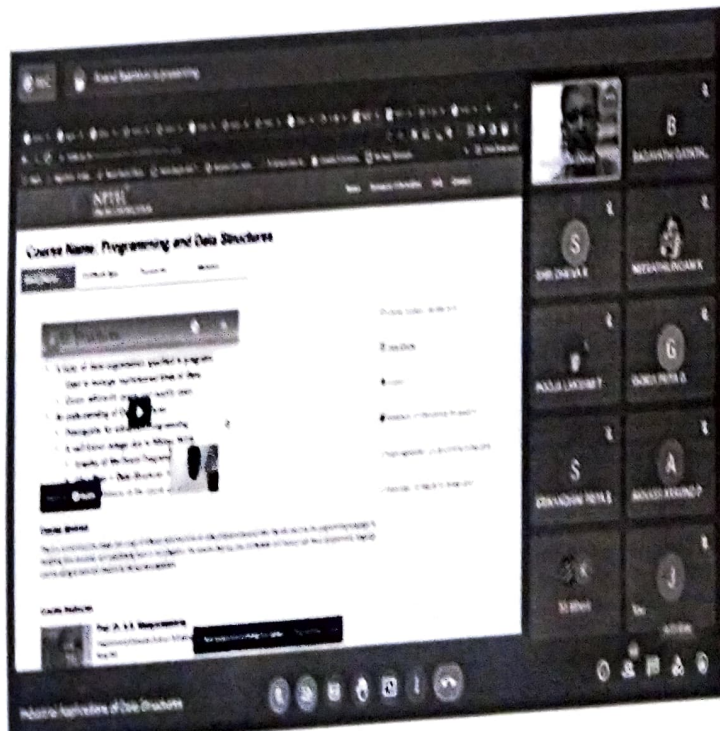
**ANAND S**  
Senior Software Development  
Engineer, PayPal

Co-ordinators:  
Dr. V. Anuradha, AICTE/CSE  
M.P. Jothi Thilaga, AICTE  
M. K. Vignesh Saravanan, AICTE/CSE

CONVENOR: DR.K.VIJAYALAKSHMI, HOD/CSE  
PATRON: DR.S.RAJAKARUNAKARAN, VICE PRINCIPAL  
CHIEF PATRON: DR.L.GANESAN, PRINCIPAL



Photo-1: Screenshot of the Poster and resource person delivering the Guest Lecture



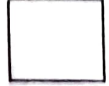
Concepts and list of participants attending



Engg College



/ Polytechnic



### Report

The Department of CSE in association with IE (I) Student Chapter CSE organized Guest Lecture on "Industrial Applications of Data Structures" on 08th January 2022 from 10.30 AM to 12:00 Noon for the II Year CSE & ECE Students. The resource person was Mr.S.Anand, Software Development Engineer, Paypal. He started the session with introduction about array, linked list and random memory access. He explained about the applications of array, linked list, stack and queue data structures with examples for each data structures. He described about different algorithmic techniques. He further highlighted on the importance of data structures concepts in real-time problem solving. Also he elaborated about the differences and constraints of each data structures with appropriate applications. He also shared about several online courses and contests related to data structures and algorithms to the students. Finally, he concluded the session by shared the usage and applications of data structures in industry projects. The guest lecture was coordinated by Dr.V.Anusuya, ASCP/CSE, Ms.P.Jothi Thilaga, AP/CSE and Mr.K.Vignesh Saravanan, AP/CSE under the guidance of Dr.K.Vijayalakshmi, Prof. & Head/CSE. Total of 80+ students attended the session and they expressed that the session was very useful to know about the usage of Data Structures concepts in IT Industry.

Signature of the Faculty Advisor

with date affixed with seal



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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year: 2021-2022 (Even Semester)

10.02.2022

### Submitted to the Principal:


Sir,

**Sub:** Requesting permission to conduct guest lecture for III year Computer Science and Engineering - reg.

We wish to conduct one day guest lecture for our III year CSE students on 12.02.2022 (Saturday) as per the schedule given below:

Session	Time	Expert Details	Topic	Course Relevance
1.	11.00 AM to 12.00 Noon	Mr.P.Ranganathan, Project Manager, Cognizant, Chennai.	“Software Test Automation & Tools”	CS8592 : Object Oriented Analysis and Design  Unit V: Testing

Hereby we request you to kindly give permission to organize this programme.

  
Faculty In-charge

  
HOD-CSE

  
Vice-Principal

  
Principal



# RAMCO INSTITUTE OF TECHNOLOGY Rajapalayam

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

In association with

### IE(I) CSE Student Chapter

organizes Guest Lecture on



## Software Test Automation & Tools



**Mr.P.Ranganathan,**  
**Project Manager,**  
**Cognizant**

Event Dates: 12.02.2022

Time: 11.00 AM to 12.00 Noon

**PLATFORM: Google meet**

\*E-certificates will be provided to all participants

**Student Co-ordinators**

**Ms.B.Dharini, III/CSE,**  
**Ms.K.K.Jayashri, III/CSE**

**Faculty Co-ordinators**

**Mrs.B.Vijayalakshmi, AP(SG)/CSE,**  
**Mr.K.Vignesh Saravanan, AP/CSE,**  
**Ms.G.Sakthipriya, AP/CSE**

**Convenor**

**Dr.K.Vijayalakshmi**  
**HOD/CSE**

**Patron**

**Dr.S.Rajakarunakaran**  
**Vice Principal**

**Chief Patron**

**Dr.L.Ganesan**  
**Principal**



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### Details of Technical Activity (Guest Lecture)

**Title /Theme:** Guest Lecture on "Software Test Automation and Tools"

**Date:** 12.02.2022

**Duration:** 11.00 AM to 12:00 Noon

**No of Students Participated:** 45 students II year & III year

**RAMCO INSTITUTE OF TECHNOLOGY**  
Rajapalayam  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

In association with  
**IE(I) CSE Student Chapter**

organizes Guest Lecture on

**Software Test Automation & Tools**

**Mr. P. Ranganathan,**  
Project Manager,  
Cognizant

Event Dates: 12.02.2022  
Time: 11.00 AM to 12.00 Noon

Student Co-ordinators  
Ms. R. Dharini, IUCSE,  
Ms. K. K. Jayashri, IUCSE

PLATFORM: Google meet  
\*Certificates will be provided to all participants

Faculty Co-ordinators  
Mrs. B. Vijayalakshmi, APISG/CSE,  
Mr. K. Vignesh Saravanan, APICSE,  
Ms. G. Sakthipriya, APICSE

Convener  
Dr. K. V. Jayalakshmi,  
HOD/CSE

Patron  
Dr. S. Rajakumaran,  
Vice Principal

Chief Patron  
Dr. L. Ganesan,  
Principal

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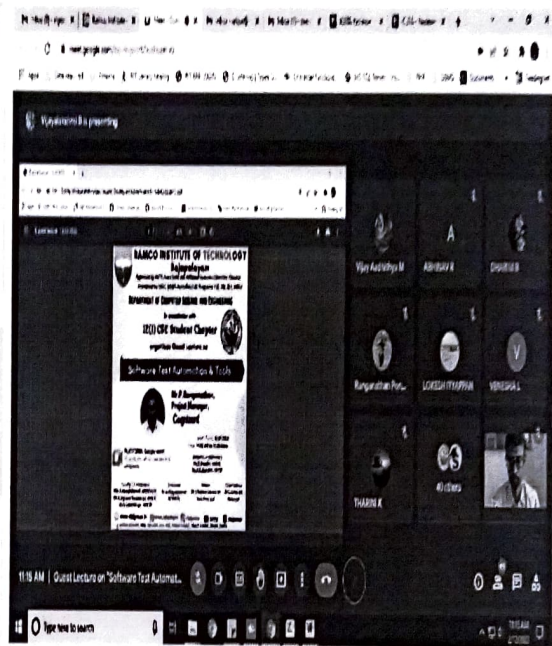
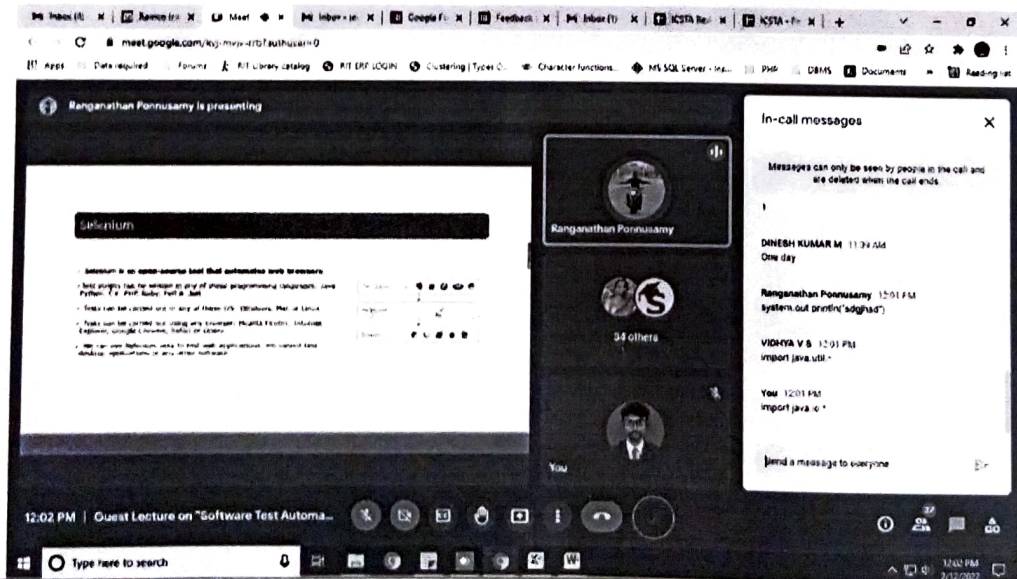


Photo-1: Screenshot of the Poster and resource person delivering the Guest Lecture



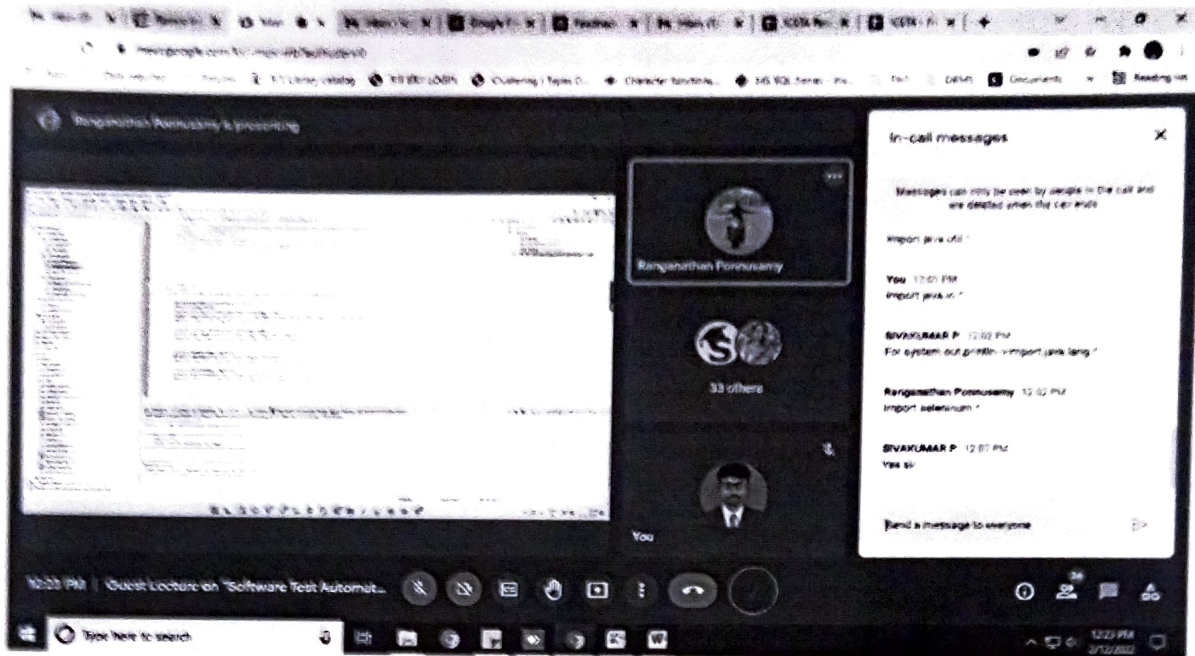
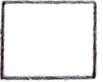


Photo-2: Screenshot of the Resource person explaining the different types of testing and Selenium tool.

### Report

The Department of Computer Science and Engineering, Ramco Institute of Technology in association with IE(I)CSE Student Chapter organized Guest Lecture on "Software Test Automation and Tools" on 12th February 2022 from 11:00 AM to 12:00 Noon for the II Year & III year CSE Students. The resource person was Mr. P.Ranganathan, Project Manager, Cognizant Technology Solutions, Chennai.

He started the session with introduction about Test automation and Tools. He explained about the applications of Software. He described about different types of testing and its classifications. He further highlighted on the importance of Selenium. Also he elaborated about the Selenium tool with its coding and execution part.

He also shared about online courses in Selenium and its importance to the students. Finally, he concluded the session by shared the Selenium tools in industry projects. The guest lecture was coordinated by Mrs.B.Vijayalakshmi AP/SG/CSE, Mr.K.Vignesh Saravanan AP/CSE and Ms.G.Sakthipriya AP/CSE under the guidance of Dr.K.Vijayalakshmi, Prof. & Head/CSE.

Signature of the Faculty Advisor

with date affixed with seal



# RAMCO INSTITUTE OF TECHNOLOGY

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## Department of Computer Science and Engineering

### Computer Society of India Students' Chapter

#### Inaugural Function Report

The Department of Computer Science and Engineering, RIT inaugurated the Computer Society of India Students' Chapter on 24.09.2021 (Friday). Mr. Vijay Ramakrishnan, Co-Founder/CTO, of DigitranIT Software Solutions Private Limited, Chennai has the chief guest of the function and delivered the chief guest address. Dr. R.Balamurali, Dean Industry Relation, Co-Founder/COO, has the special guest of the function and he motivated the students to get successful career in their life. One more special guest of the function, Mr. Brabu Nathan, CEO of Brabu Printers, Tuticorin gave the lecture and motivates the students to become entrepreneur in his special address. He also shared his experience as an entrepreneur. Totally 120 student members of Computer Society of India Students' Chapter of Department of Computer Science and Engineering have participated in an Inaugural function.



*M. Hariharan*  
Prepared by 27.9.21  
(Mr.M.Hariharan, III CSE)

*A.J. Nayagam*  
Verified by 27/9/21  
(Dr.M.Gomathy Nayagam, ASCP/CSE)

*Dr. R. Balamurali*  
20/9/2021  
HOD-CSE



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

RIT –Computer Society of India



## Report on Guest Lecture

**Event Title** : Guest Lecture on “Computer Networks”  
**Date & time** : 12.11.2021 & 09.30 AM  
**Number of Participants** : 75  
**Name of the Resource Persons:** **Mr. V Ramakrishnan**, Partner and Chief Mentor,  
Adapro Consulting, Bangalore

Ramco Institute of Technology, Department of Computer Science and Engineering in association with Computer Society of India, Student Chapter, Rajapalayam organized a **Guest Lecture on Computer Networks** on 12.11.2021 for III year and IV year students. The objective of the guest lecture was to focus on imparting the depth knowledge in computer networking concepts. The resource person of the guest lecture, **Mr. V Ramakrishnan, Partner and Chief Mentor, Adapro Consulting, Bangalore** explained the ISO OSI layers of networks and TCP/IP Layers. He further emphasized on the importance of routing, IP addressing, IP v4, subnetting and v6." He started from the basics of Internet and Intranet to design of switches and routers.



Also, he focused to explain the IT Product development, IT Applications and IT Services Project Management and Process Engineering. Business Enablement with automation, Training and Certification, Talent Pool deployment of Adapro. He also covered the basics of Cloud Computing.



*G. S. Anupam*  
Faculty In-charge 20/11/21.

*Govind Kumar*  
20/11/2021  
HOD/CSE

# RAMCO INSTITUTE OF TECHNOLOGY

Rajapalayam

## Department of Computer Science and Engineering

FDTP Report

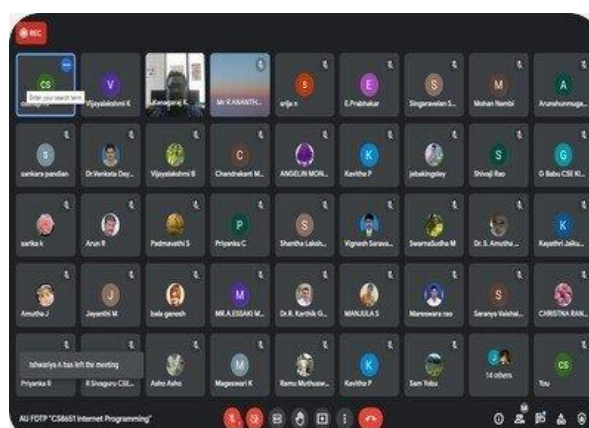
**Event Name:** CS8651 Internet Programming

**Date & Time:** 03.01.2022 to 08.01.2022

**Number of Participants:** 60 Faculty

**Resource Persons:** Academicians from Reputed Universities and Institutes

Department of Computer Science and Engineering organized Anna University Sponsored Six Days Faculty Development Training Program on "CS8651 Internet Programming" for the faculty members from 03.01.2022 to 08.01.2022. 60 faculty members from various colleges in Tamil Nadu attended the FDTP. Dr.K.Vijayalakshmi, Professor & Head/CSE, RIT Delivered the welcome address, Dr.S.Swamynathan, Professor, Anna University, inaugurated the FDTP followed by sessions was handled by Dr.S.Kavi Priya, Associate Professor, Mepco Schlenk Engineering College, Dr.K.Kanagaraj, Associate Professor, Mepco Schlenk Engineering College, Dr. P.Sureshkumar, Associate Professor, RIT, Manju Khari, Associate Professor, Jawaharlal Nehru University, New Delhi, Dr. Vijay Bhaskar Semwal, Assistant Professor, Maulana Azad National Institute of Technology, Bhopal, Dr.K.Vijayalakshmi, Professor & Head/CSE, RIT, Prabhat Kumar, Associate Professor, NIT Patna, Dr. Suparna Biswas, Associate Professor, Maulana Abul Kalam Azad University of Technology, West Bengal, Dr. Rashmi Gupta, Professor, Netaji Subhas University of Technology, New Delhi and Mr.C.A.Yogaraja, AP/CSE, RIT delivered vote of thanks. The program was coordinated by Dr.K.Vijayalakshmi, Professor & Head/CSE and Mr.C.A.Yogaraja, AP/CSE.





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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year: 2021-2022 (Odd Semester)

11.01.2022

**Submitted to the Principal:**

Sir,


**Sub:** Requesting permission to conduct guest lecture for III Year ECE & EEE Students - reg.

We wish to conduct guest lecture for III Year ECE & EEE students on 12.01.2022 (Wednesday) as per the schedule given below.

Time	Expert Details	Topic	Course Relevance
10.30 A.M To 12.00 Noon	Mrs.R.Niranjana Devi, Lead Software Developer, IQ BackOffice, Chennai.	Java Collections	CS8392 Object Oriented Programming <b>Content Beyond Syllabus</b>

Hereby we request you to kindly give permission to organize this programme.

  
11/1/22  
Faculty In-charge

  
11/01/2022  
HOD-CSE

  
11/1/22  
Vice-Principal

  
11/1/22  
Principal



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**Department of Computer Science and Engineering**  
**Academic Year 2021 – 2022 (Odd Semester)**

**Report on Industrial Guest Lecture**

**Event Title:** Guest Lecture on “Java Collections”

**Date & Time:** 12.01.2022 & 10.30 AM

**Name of the Resource Person:** Mrs.R.Niranjana Devi, Lead Software Developer,  
 IQBackOffice, Chennai.

Department of Computer Science and Engineering in association with CSI organized an Industrial Guest Lecture on **Java Collections** for III Year ECE, EEE, CSE & II Year CSE students on 12.01.2022 at 10.30 am. The resource person of the program is **Mrs.R.Niranjana Devi, Lead Software Developer, IQBackOffice, Chennai**. 100 students from III Year ECE, EEE and CSE and II year CSE attended the guest lecture. The guest lecture was coordinated by Mrs.B.Vijayalakshmi, AP(SG)/CSE, Dr.L.Gethzi Ahila Poornima, AP/CSE and Mrs.S.Manjula, AP/CSE under the guidance of Dr.K.Vijayalakshmi, Prof. & Head/CSE.



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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

In association with

**Computer Society of India**

Organizes Industrial Guest Lecture on



**Java Collections**



**R.Niranjana Devi**  
 Lead Software Developer,  
 IQ BackOffice, Chennai.



**IQ BackOffice**

Event Date: 12.01.2022 Time: 10.30 A.M to 12 Noon

Google Meet Link: <https://meet.google.com/djp-yegl-tlu>

Faculty Co-ordinators	Convenor	Patron	Chief Patron
Mrs.B.Vijayalakshmi AP(SG)/CSE	Dr.K.Vijayalakshmi HOD/CSE	Dr.S.Rajakarunakaran Vice Principal	Dr.L.Ganesan Principal
Dr.L.Gethzi Ahila Poornima AP/CSE			
Mrs.S.Manjula AP/CSE			

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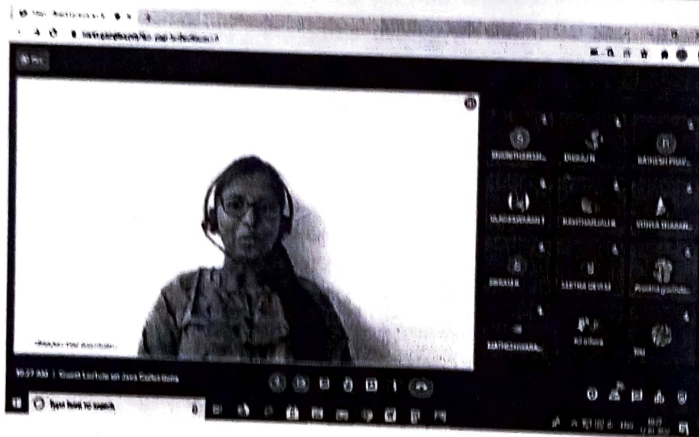
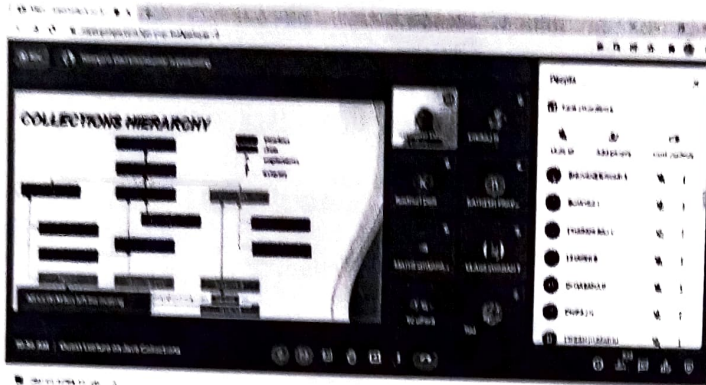
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04983 233499, 400, 403, 410, 413

The objective of the guest lecture was to focus on imparting the knowledge in Java Collection concepts. The session started with the Welcome address given by Ms.M.Shrinithi Meena, III Year ECE student. The resource person started the session with the introduction of collection frameworks in Java. She explained the importance and need of collections and collection frameworks. She gave a brief overview about the collections Hierarchy. She discussed the list interfaces such as ArrayList, LinkedList, Vector and Stack and also the differences among them. The methods used in the collection interfaces also shared by the resource person.



She elaborated the set interface such as Hash set, LinkedHash Set, Tree Set and the usage of different set interfaces in problem solving. She continued the collection interface with HashMap, LinkedHashMap and TreeMap. She insisted the students about the importance of data structures and how it is used in problem solving aspects. Finally she concluded the session with the situations where different collections can be used for solving real world problems. The session ended with the vote of thanks given by Ms.Abinaya Sri, III Year EEE student.

*[Signature]*  
Faculty Incharge

*[Signature]*  
13/11/2022  
HOD/CSE

Department of CSE & EEE in association with CSI Students chapter & IEEE Student Branch organized a **Workshop on Arduino and IoT** for II Year CSE Students during 11.08.2022 to 13.08.2022 (Afternoon Session). The resource persons of the programme was Mr.A.Arun Kumar, AP/EEE, Mrs.S.Jeyanthi, AP/EEE and Ms.S.Sharmila Kumari, AP/EEE. They elaborated about Arduino, and also they provided a hands-on session on LED Blinking, Serial Monitor, Interfacing of IR sensor & PIR sensor, and Interfacing of ultrasonic and flame sensor. They also explained about IoT and Bluetooth control. The participants were actively attended the sessions and expressed that the workshop was very interesting and informative. Dr.M.Gomathy Nayagam, AP/CSE and Mr.A.Arun Kumar, AP/EEE coordinated the workshop.



Department of CSE in association with IE(I)-CSE organized a **Workshop on Robotic Process Automation** for II Year CSE Students during 11.08.2022 to 13.08.2022 (Forenoon Session). The resource persons of the programme was Dr.M.Gomathy Nayagam, ASP/CSE and Mr.K.Vignesh Saravanan, AP/CSE. They elaborated about the RPA services, applications, needs and about the UiPath community studio installation. They provided a hands-on session on Hello message automation, Notepad automation, Online form filling automation, Web scraping and capturing data, and Automation of movie rating identification. The participants were actively attended the sessions and expressed that the workshop was very useful and interesting. Ms.P.Jothi Thilaga, AP/CSE and Mrs.S.Manjula, AP/CSE coordinated the workshop.



**Department of Electrical and  
Electronics Engineering**

**RAMCO INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**ACADEMIC YEAR 2021-22**  
**Event Organized Details**

RIT-Electra, Student Technical association of Department of Electrical and Electronics Engineering, Ramco Institute of Technology in association with IIC and professional societies ISTE, IE(I) & IEEE organized a webinar on "**Huge Career opportunities for EEE Graduates**" on 06.08.2021 (Friday) from 06.00 PM to 07.30 PM. **Mr. Harisankar KSB, Electrical designer, Sidel India Pvt. Ltd., Gurgaon** has delivered a lecture. He has explained about the various opportunities available for the EEE graduates, the steps to be taken by the students during the course for getting a good career and the top sectors requiring the EEE graduates. Totally 50 students and 5 faculty members have attended the webinar.

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**Department of Electrical and Electronics Engineering**  
(an NBA Accredited Program)  
**RIT - ELECTRA**  
**TECHNICAL ASSOCIATION**

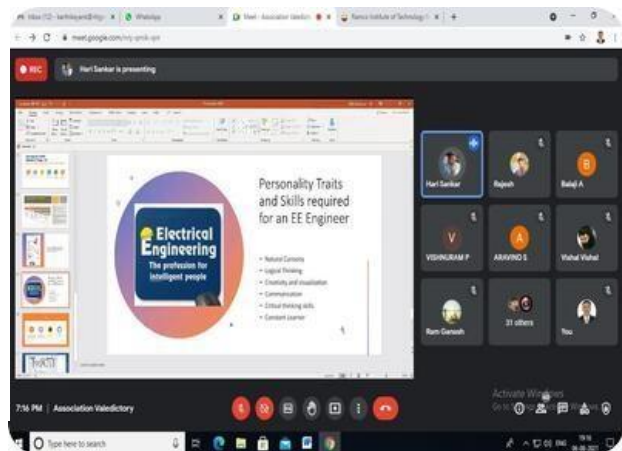
**Huge Career Opportunities For EEE Graduates**  
 Resource Person



**Mr. Harisankar KSB**  
 Electrical Designer  
 SIDEL INDIA PVT LTD  
 GURGOAN - INDIA

**06.08.2021**  
**Friday**  
**6.00 PM to 7.30 PM**

Co-ordinator: **Dr. K. Karthikeyan**, Associate Professor - EEE  
 Convener: **Dr. S. Kannan**, HoD-EEE  
 Patron: **Dr. S. Rajakarunakaran**, Vice-principal  
 Chief Patron: **Dr. L. Ganesan**, Principal



Department of EEE Alumni Association, IE (I) & IEEE students chapter organized a webinar on "**How to Crack TCS Ninja**" for eligible 21 students of IV Year EEE on 08.08.2021. **Mr. S. Pon Athiban, (Alumnus 2015-19 Batch) Assistant System Engineer, Tata Consultancy Services, Chennai** acted as the Resource Person and delivered the webinar to the students.

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**Department of EEE in association with**  
**Alumni Association, IE(I) EE Student Chapter,**  
**IEEE Student Branch**

*Webinar on "How to crack TCS Ninja"*

**Resource Person**  
**Mr. S. Pon Athiban,**  
**Alumni-(2015-2019) & Assistant System Engineer,**  
**Tata Consultancy Services, Chennai**

**08.08.2021**        **11.00 a.m to 12.30 p.m.**    **ePlatform** Googlemeet

<https://meet.google.com/ftz-hyyh-wdz>

CO-ORDINATOR: **Mr. D. Karthik Prabhu**, AP(SG)/EEE  
 CONVENOR: **Dr. S. Kannan**, HoD/EEE  
 PATRON: **Dr. S. Rajakarunakaran**, Vice Principal  
 CHIEF PATRON: **Dr. L. Ganesan**, Principal

Department of EEE, in association with RIT-Career Guidance Cell, conducted an online awareness program on the topic **Opportunities for Higher Education in Aboard** for the second year, third year and final year EEE students on 20.09.2021. The session was delivered by **Ms. M. Muthu Meenakshi**, our distinguished alumna of the batch 2017-2021 and IELTS scorer (7.5 out of 9). Around 40 students benefited from the program.



Department of EEE, in association with IE(I) EE student chapter, conducted a Three days Training Programme on **Art of Learning** for the II EEE students from 04.12.2021 to 06.12.2021. The program was conducted by **Prof. C. Muruganatham, Ph.D, Educational Consultant & Founder M/s.New Gen Learner**. The students of II year EEE, 61 students actively participated and benefited.

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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

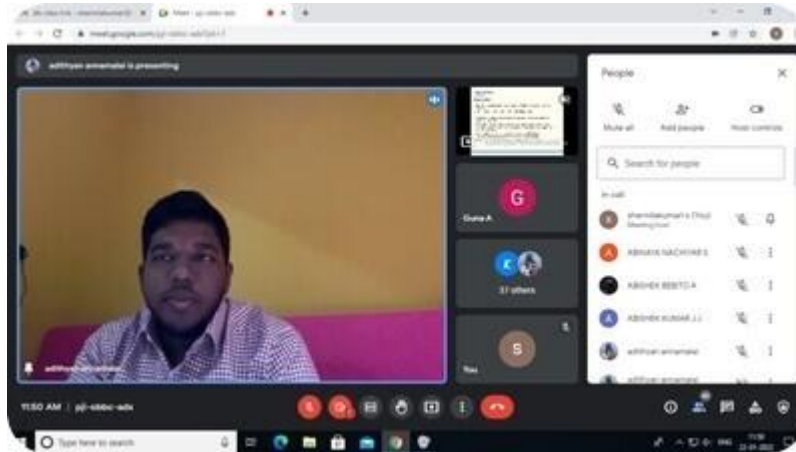
**Training Program on "Art of Learning"**

 **Prof. C. Muruganatham**  
 Educational Consultant  
 M/s. New Gen Learner  
 Former Professor - Mech  
 TCE, Madurai

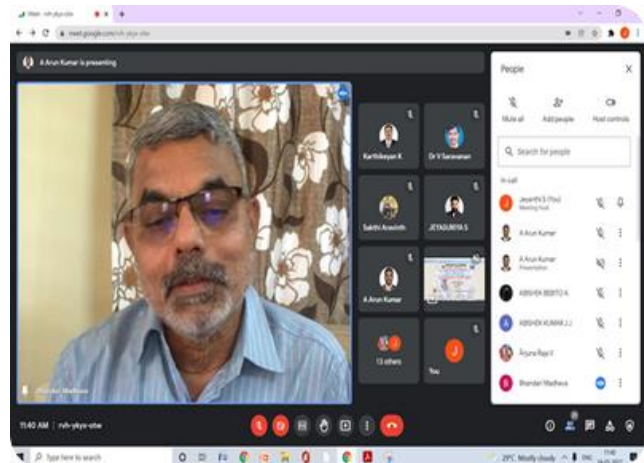
**Date : 04.12.2021 to 06.12.2021**  
**Venue: EEE Seminar Hall**




Department of EEE, in association with RIT-Career Guidance Cell, conducted an online awareness Program titled, **Awareness talk on Internship, UG Research and Higher Education** for RIT Students on 22.01.2022. The session was delivered by **Mr. Adithyan Annamalai, Imperial College, London**. Around 40 students benefited from the program.



Department of EEE in association with RIT IE(I) EE Student Chapter has organised an **Interactive session on Circuit Breakers** in industry perspective for EEE Students on 24.01.2022 at 11.30 AM. The session was delivered by **Mr. Madhava Bhandari, Retired Technician, Bengaluru**. Around 21 students benefited from the session.



Department of EEE in association with RIT-ELECTRA Association, RIT-IEEE Student branch has organised an webinar on "**How to write a grant proposal for Electrical Engineering**" for all EEE faculty members on 24.01.2022 at 02.00 PM. The session was delivered by Dr. V. Saravanan, Professor / EEE, Thiagarajar College of Engineering, Madurai. All the 13 EEE faculty members benefited from the session.

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RIT - Electra & RIT - IEEE Student Branch Jointly Organizes  
**Webinar**  
 on  
**"How to write an effective grant proposal for Electrical Engineering"**

**Dr. V. Saravanan,**  
 Professor - EEE  
 Thiagarajar College of Engineering, Madurai

Date & Time: 24.01.2022 & 02.00 PM  
 Google Meet Link: <http://meet.google.com/rnz-npxt-yny>

The screenshot shows a Google Meet interface with a presentation slide that matches the poster content. The slide includes the same text and logos, along with a photo of Dr. V. Saravanan and the date/time information.

Department of EEE in association with RIT IEEE Student Branch has organised an **Interactive session on Power Circuits** in industry perspective for EEE Students on 25.01.2022 at 11.30 AM. The session was delivered by Mr. Madhava Bhandari, Retired Technician, Bengaluru. Around 25 students benefited from the session.

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**DEPARTMENT OF EEE IN ASSOCIATION WITH**  
**IEEE STUDENT BRANCH**  
**Cordially Invites All EEE Students to**  
**Interactive Session on Power Circuits**

**Resource Person**  
**Mr. MADHAVA BHANDARI**  
 Retired Technician  
 Bengaluru

**25** 25.01.2022 11.30 AM to 12.30 PM <https://meet.google.com/rvh-ykyy-otw>

**CO-ORDINATOR** Mr. A. Arun Kumar Assistant Professor-EEE  
**CONVENOR** Dr. S. Kannan HoD/EEE  
**PATRON** Dr. S. Rajakarunakaran Vice Principal  
**CHIEF PATRON** Dr. L. Ganesan Principal

The screenshot shows a Google Meet interface with a presentation slide that matches the poster content. The slide includes the same text and logos, along with a photo of Mr. Madhava Bhandari and the date/time information.

Department of EEE in association with RIT-ELECTRA Association, RIT-IEEE Student branch, RIT-IE(I) Student Chapter has organised an webinar on **How to write an effective seminar / project proposal for Electrical Engineering** for all EEE faculty members on 26.01.2022 at 05.30 PM. The session was delivered by Dr. S. Albert Alexander, PDF(USA), Associate Professor / EEE, Kongu Engineering College, Perundurai. All the 13 EEE faculty members benefited from the session.

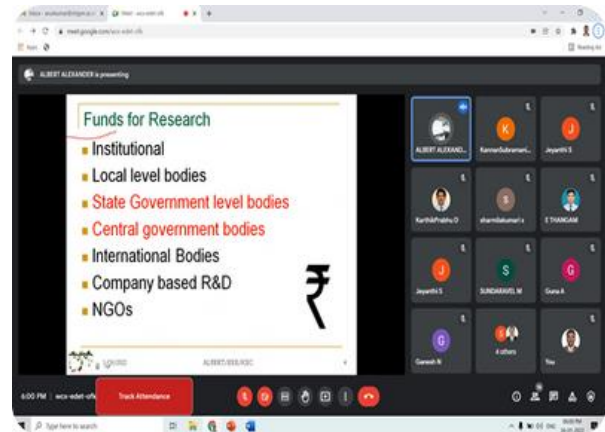
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NBA Accredited UG Programs: CSE, EEE, ECE and MECH

DEPARTMENT OF EEE IN ASSOCIATION WITH  
RIT - ELECTRA, IE(1)EE STUDENT CHAPTER, IEEE STUDENT BRANCH  
Cordially Invites All RIT - EEE faculty members to  
**Webinar on "How to write an effective seminar / project proposal for Electrical Engineering"**

**Resource Person**  
**Dr. S. Albert Alexander, PDF(USA),**  
Associate Professor / EEE,  
Kongu Engineering College, Perundurai

26 26.01.2022 05.30 PM to 06.30 PM <https://meet.google.com/wcx-edet-ofk>

<b>CO-ORDINATOR</b> Dr. K. Karthikeyan, ASP/EEE Mr. A. Arun Kumar, AP/EEE Mrs. S. Jeyanthi, AP/EEE	<b>CONVENOR</b> Dr. S. Kannan HoD/EEE	<b>PATRON</b> Dr. S. Rajakarunakaran Vice Principal	<b>CHIEF PATRON</b> Dr. L. Ganesan Principal
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Department of EEE in association with RIT ELECTRA association has organised an **Interactive session on AC machines** in industry perspective for EEE Students on 27.01.2022 at 11.30 AM. The session was delivered by Mr. Madhava Bhandari, Retired Technician, Bengaluru. Around 28 students benefited from the session.

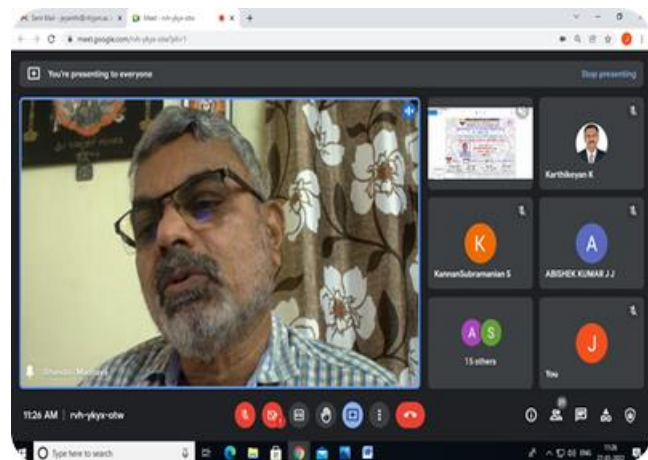
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DEPARTMENT OF EEE IN ASSOCIATION WITH  
RIT - ELECTRA  
Cordially Invites All EEE Students to  
**Interactive Session on AC Machines**

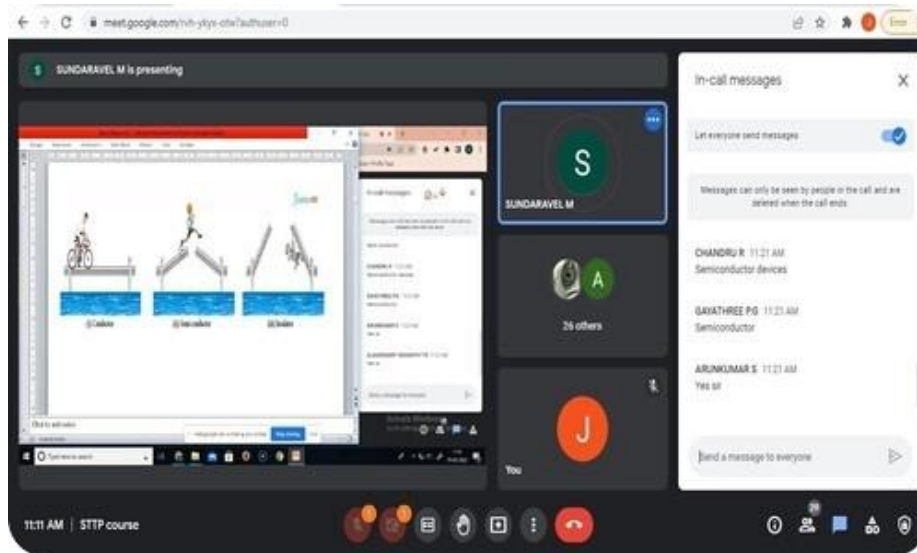
**Resource Person**  
**Mr. MADHAVA BHANDARI**  
Retired Technician  
Bengaluru

27 27.01.2022 11.30 AM to 12.30 PM <https://meet.google.com/rsh-ykyx-otfs>

<b>CO-ORDINATOR</b> Dr. K. Karthikeyan Associate Professor-EEE	<b>CONVENOR</b> Dr. S. Kannan HoD/EEE	<b>PATRON</b> Dr. S. Rajakarunakaran Vice Principal	<b>CHIEF PATRON</b> Dr. L. Ganesan Principal
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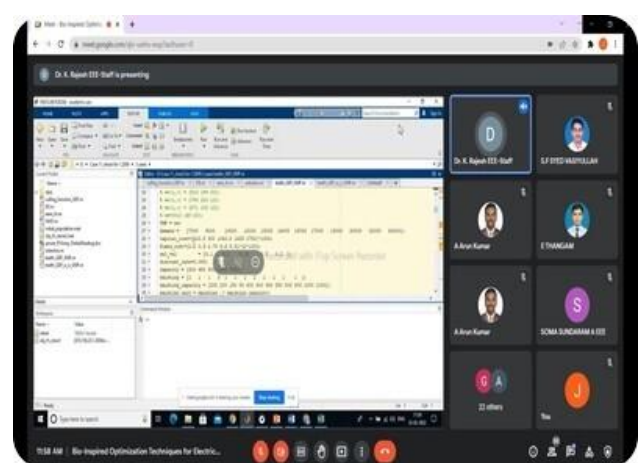


Department of EEE, in association with IE(I) EE Student Chapter, conducted a 5-Day Short Term Training Program (STTP) on **Fundamentals on Electricals and Electronics** during February 11-16, 2022. The resource persons were Dr. S. Kannan, Professor & Head/EEE, Dr. K. Karthikeyan, ASP/EEE, Mr. S. Meenakshi Sundaravel, AP/SG/EEE, Mr. A. Arun Kumar, AP/EEE, Mr. A. S. Vigneshwar, AP/EEE, Mrs. S. Jeyanthi, AP/EEE, Ms. S. Sharmila Kumara, AP/EEE, Mrs. G. Sivapriya, AP/EEE from Ramco Institute of Technology. Around 18 students of II year EEE attend the STTP and get benefited.

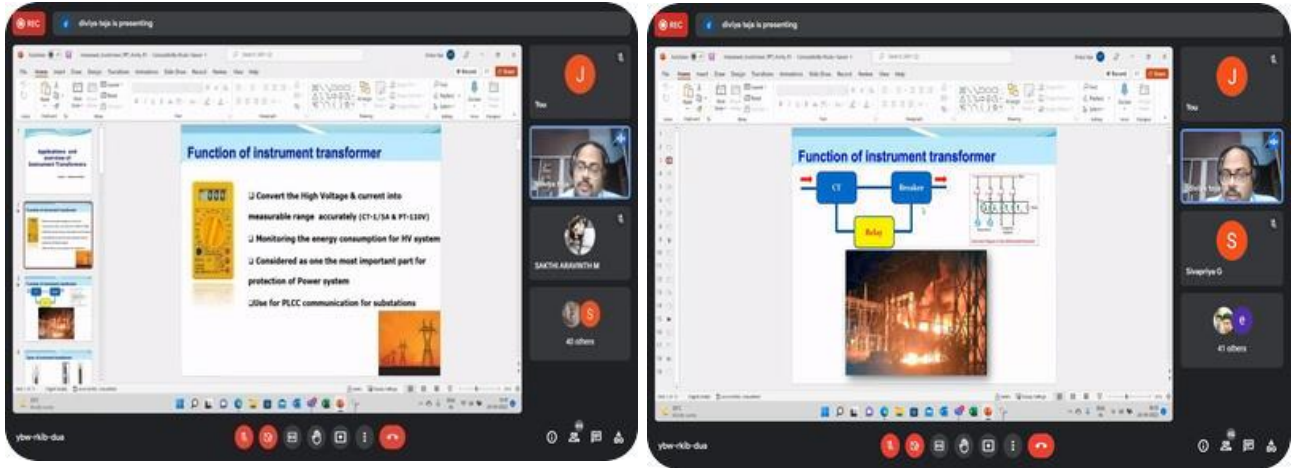


Department of EEE, in association with ISTE faculty chapter conducted a Workshop on **"Workshop on AICTE Examination Reforms"** for the RIT-EEE faculty members from 24.02.2022 to 25.02.2022. The resource person **Mr. A. Arun Kumar, AP/EEE, Ramco Institute of Technology, Rajapalayam** delivered the session. Totally 12 faculty members attended the workshop.

Department of EEE, in association with RIT-Electra, IEEE Student Branch, IE(I) EE Student Chapter, conducted a **3-Day Online FDP on Bio Inspired Optimization Techniques for Electrical Engineering Applications** during February 21-23, 2022. The resource persons from the reputed academic institutions and the industry were delivered the sessions. Around 50 participants attend the FDP and get benefited.



Department of EEE, in association with IEEE Student Branch, conducted a Guest Lecture on **Instrument Transformer** for the II EEE students on 24.04.2022. The resource person **Mr. Diviya Teja, Technology Manager at ITEC Instrument Transformer Equipment Corporation, Vadodara, Gujarat, India** delivered the session. Totally 45 students attended and benefited.



Department of EEE, in association with RIT-Career Guidance Cell, conducted an awareness program on the topic **How to face State and Central Government Exams** for the third year and final year RIT students on 22.03.2022. The session was delivered by **Jc Dr T.N. Ramasamy, Head Master ( Rtd.,) / Social Worker**. Around 63 students benefited from the program.

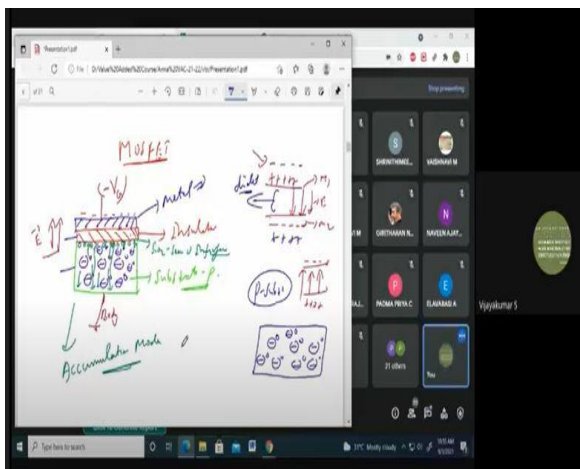


**Department of Electronics and  
Communication Engineering**

**RAMCO INSTITUTE OF TECHNOLOGY**  
**Department of Electronics and Communication Engineering**  
**Academic Year 2021– 2022**  
**Details of IE (I) Events Organized**

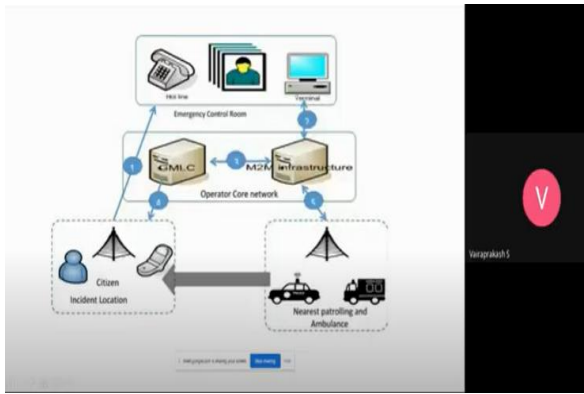
Short Term Course on “Design and Analysis of MOS Circuits” was organized by the Department of Electronics and Communication Engineering and in association with **IE (I) Students Chapter** from 05.09.2021 to 21.11.2021 for III year ECE Students in our college. The course was conducted for 30 hours duration in online platform via Google meet. Mr.A.Azhagu Jaisudhan Pazhani, ASCP/ECE and Mr.S.Vijayakumar AP/ECE were the course coordinator of the programme.

Mr.G.Harri ram (2013-17 Batch alumni), Senior Verification Engineer, Mobiveil Technology, Bangalore, 1. Mr. A.Azhagujaisudhan Pazhani, Associate Professor / 2. Mr.S.Vijayakumar, Assistant Professor / 3. Mr. D. Gopinath, Assistant Professor/ 4.Mr. P. Venketesh, Assistant Professor, Ramco Institute of Technology, Rajapalayam were the resource person for the training programme.

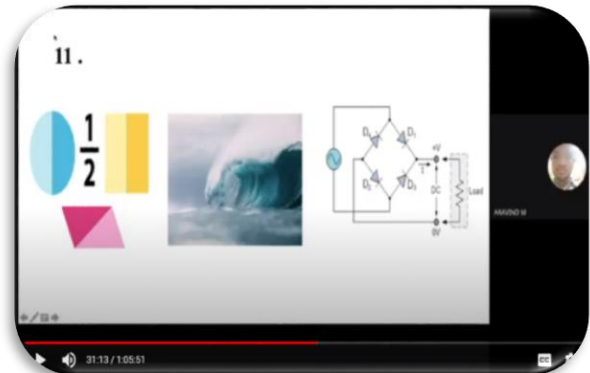
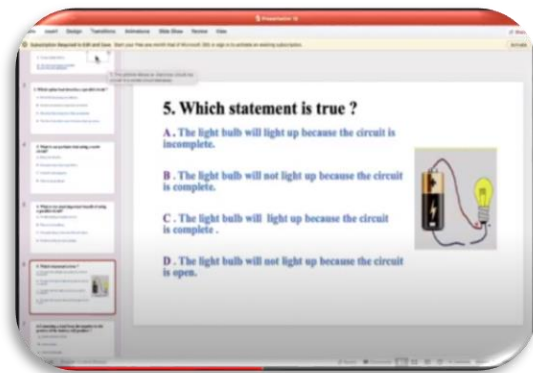


Short Term Course on “Connected Car-Electronics” was organized by the Department of Electronics and Communication Engineering and in association with **IE (I) Students Chapter** from 05.09.2021 to 21.11.2021 for III year ECE Students in our college. The course was conducted for 30 hours duration in online platform via Google meet. Mr. K.Ragavan, AP/ECE and Dr.S.Vairaprakash ASCP/ECE were the course coordinator of the programme.

Mr. R. Vimalathithan, Director, Krishtec, Coimbatore , 1. Mr. K.Ragavan, Assistant Professor(SG) 2. Dr.S.Vairaprakash, Associate Professor 3. Mrs. G.Gnanpriya, Assistant Professor(SG) 4.Mrs. S. Jeeva, Assistant Professor, Ramco Institute of Technology, Rajapalayam were the resource persons for the training programme.



**IE (I) Students Chapter of ECE Department** organized a technical event “**Tech-Connexion**” on **07.09.2021** for **II, III & IV year ECE students** through Google meet. 34 students participated in this technical event. The event was organized by the student coordinators **N.Harshethaa, S.Keerthana** IV year ECE and Faculty co-coordinator **Mr.G.Sivakumar AP/ECE**.



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**Department of Electronics and Communication Engineering & Institution of Engineers (India) Organizing "Tech-Connexion 2021"**

E-Certificate will be provided to all the participants

Contact Number: 7708304530, 9361213362

Register Now

Free Registration

Register by clicking the following Link:  
<https://tinyurl.com/68d2frh5>

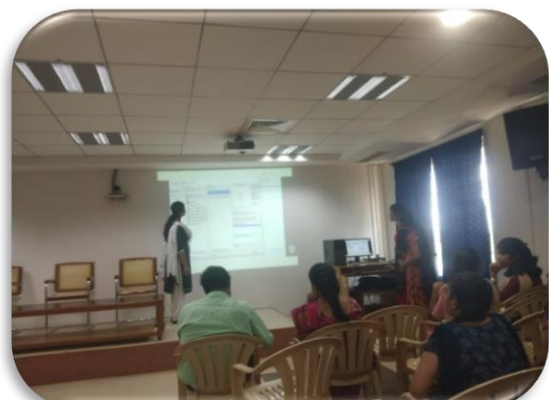
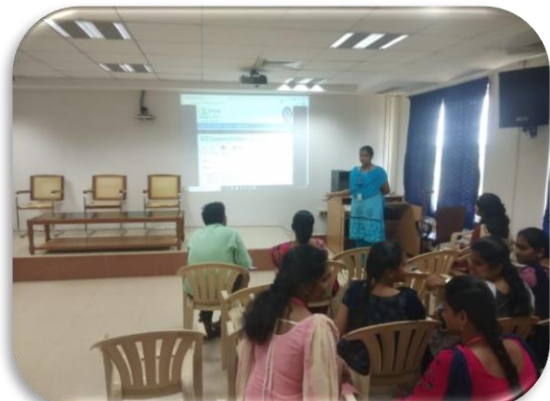
Date: 07.09.2021  
 Time: 7:00PM to 8:00PM

Career

Department of Electronics and Communication Engineering in association with **IE (I) student chapter** organized “**Technical Film show**” to celebrate **Engineer’s day on 15.09.2021** at ECE Seminar Hall for II, III year ECE students. Dr.S.Periyanyagi, Prof& Head/ECE is Convener and Ms.S.A.Radhika AP/ECE co-ordinated this event. Mr.S.Hariharan, III ECE A, is student co-ordinator for this event. Around 30 students from II and III year ECE eagerly participated in this event. The videos related to the booming technologies like Artificial Intelligence, 6G, IOT were presented by students. Mr.P.Venkatesh AP/ECE, acted as Jury for this event and gave his valuable feedback and suggestions. Two best videos were selected from II and III year. Mr D.Giritharan from III year ECE-A and Ms. M.A.Sakthishree batch from II ECE-B won First Prize. Suggestions and feedback was collected from the students. The event was concluded with the vote of thanks given by Ms.S.A.Radhika AP/ECE.



Department of Electronics and Communication Engineering in association with **IE (I) student chapter** jointly organized “**Online Simulation Tool Presentation**” on Engineers’ day celebration 15.09.2021 (Wednesday) at ECE Seminar Hall for II, III year ECE students. Mr.K.Ragavan AP(SG)/ECE, Mrs.G.Gnana Priya AP(SG)/ECE acted as a Jury for this event. 7 student batches from II, III year students actively participated in this event. Students presented various online simulation tools like Image processing using MATLAB, Virtual laboratory, PSPICE, Web hosting, Antenna design using MATLAB Simulink tool box. Students presentation was evaluated by their presentation, Modern tool Usage, Program/Circuit. Dr.S.Periyanyagi Prof& Head/ECE convener, Mrs.S.Jeeva AP/ECE coordinated the event. Student coordinators Ninel Bert Costa, gave welcome address and G.Manjula gave vote of thanks. Finally, students’ feedback is collected.



Department of Electronics and Communication Engineering in association with **IE (I) student chapter** jointly organized “**TRAIN YOUR BRAIN**” from for II, III & IV year ECE students. Dr.S.Vairaprakash ASCP/ECE acted as a coordinator. The question has prepared which contains electronic circuits, digital circuits and electrical circuits. Daily one question was posted in the respective class group. The students found out the result and they submitted the answers through

Google form. Students were actively participated and they have shown their interest to find their answers. The students felt that the activity was helpful to them to solve the technical aptitude questions in core field.

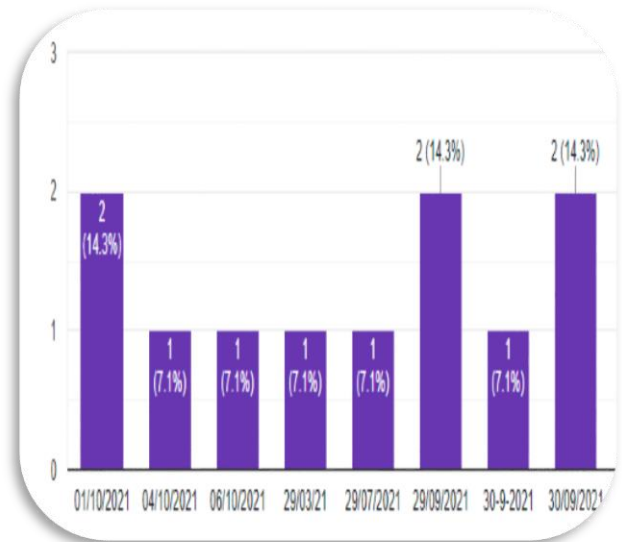
**RAMCO INSTITUTE OF TECHNOLOGY**

Department of Electronics and Communication Engineering  
Institution of Engineers (India) presents  
**Train your Brain – Technical Aptitude Questions**

Date: 04/10/2021  
Question no: 4

Find the power supplied by the voltage source in the given circuit.

Submit your Answer  
<https://forms.gle/8jra1Yv572B9hE6e>



Department of Electronics and Communication Engineering in association with **IE (I) student chapter** organized **Technical Visit on “The Ramco Cements Limited, Virudhunagar”** for III year ECE students. 78 students were visited Ramco Cements Limited, R.R.Nagar, Virudhunagar on 10 Dec., 2021. The Industry expert explained the entire Control systems of the unit elaborately. Students asked their doubts regarding automation. The industry expert cleared their doubts. Mr.D.Gopinath AP/ECE, Dr.S.Vairaprakash ASCP/ECE, Mr.R.Deiva Nayagam AP/ECE and Mrs.R.Ramalakshmi, AP/ECE were accompanied with the students





The Department of ECE in association with **IE(I) Students Chapter** jointly organized a Webinar on “**Embedded Systems in Automotive Industries**” on 22 Jan., 2022 through google meet for II and III ECE students. The Chief Guest **Mr. G.Alangara Kannan , Test Manager, Robert Bosch, Coimbatore** shared his experience and insisted them to learn the basic concepts of the automotive electronics which will help them to get placed in Automotive and Embedded companies. The event was coordinated by Dr.A.Azhagu Jaisudhan Pazhani ASCP/ECE.


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Department of Electronics and Communication Engineering  
 in association  
 with **IE(I) Student Chapter ECE**  
 conducts a webinar on

**EMBEDDED SYSTEMS IN  
 AUTOMOTIVE INDUSTRIES**

**RESOURCE PERSON**



**Mr. G Alangara Kannan**  
 Test Manager, Robert Bosch, Coimbatore

**PLATFORM : GOOGLE MEET**

On 22 January 2022 at 11:00 am  
**GOOGLE MEET LINK : <https://meet.google.com/jzg-ftej-cso>**

**CHIEF PATRON**  
 Dr.L.Ganesan  
 Principal

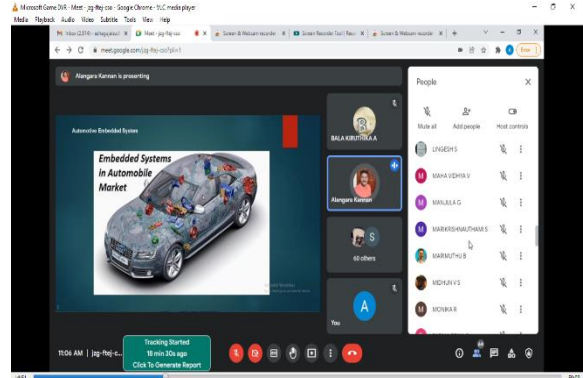
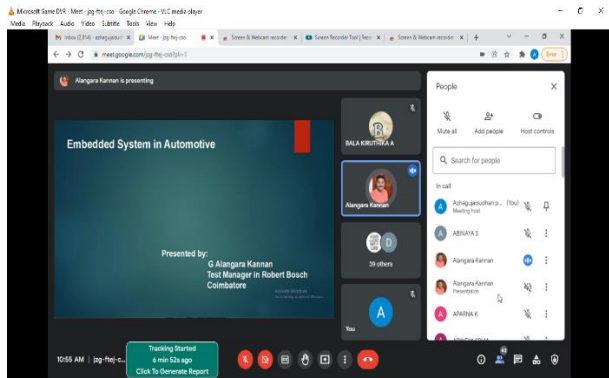
**PATRON**  
 Dr.S.Rajakarunakaran  
 Vice Principal

**HEAD OF THE DEPARTMENT**  
 Dr.S.Periyayagi  
 Professor & Head/ECE

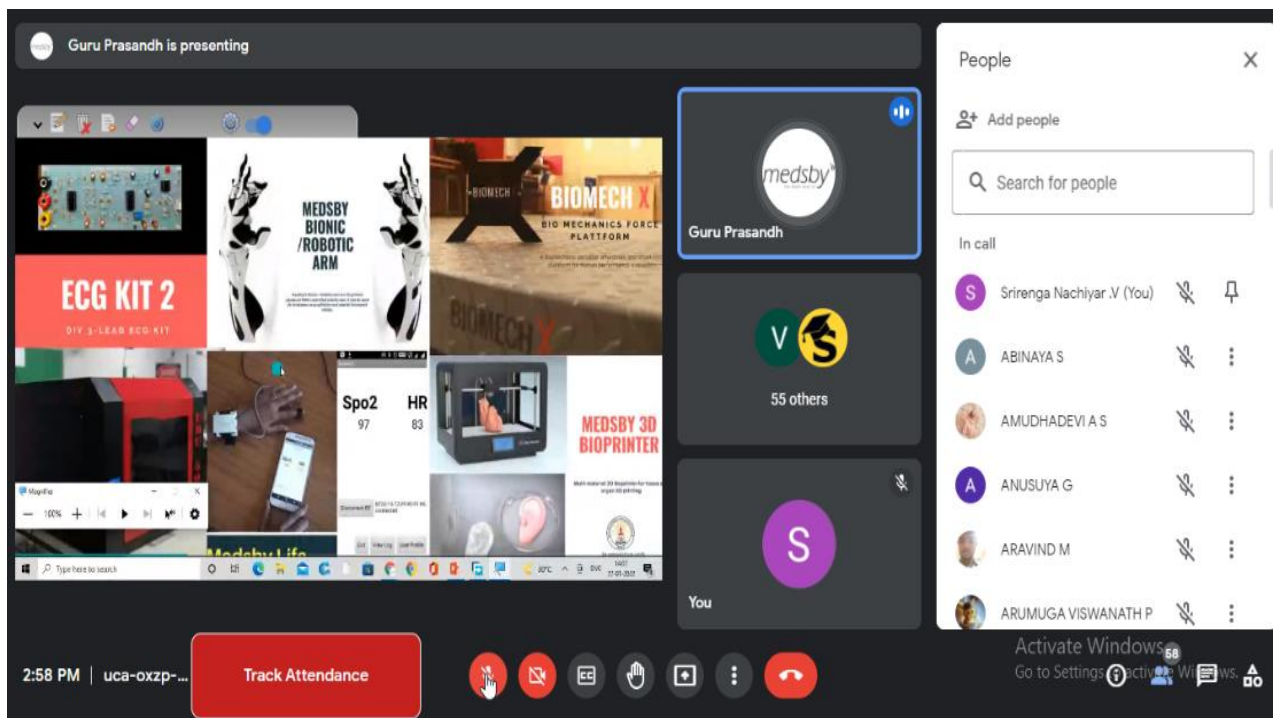
**FACULTY COORDINATOR**  
 Dr.A.Azhagu Jaisudhan Pazhani  
 ASP/ECE

**STUDENT COORDINATORS**  
 A.Bala Kiruthika, IV Year/ECE  
 C.Pradeep, III Year/ECE

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[/RamcoRajapalayam](https://www.facebook.com/RamcoRajapalayam)



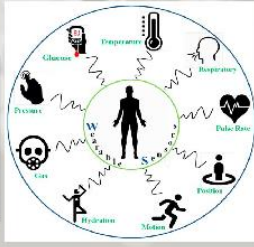
The Department of Electronics and Communication Engineering in association with IE (I) organized a Guest Lecture on **"Wearable Sensors on Biomedical Applications"** on 27.01.2022 for II & III year ECE students through Google meet. 64 students participated from II & III Year ECE. The event was organized by Ms.A.Sushma, III Year ECE, and Ms.R.Vinothini Rajam III Year ECE and coordinated by Mrs.V.SrirenaNachiyar, AP(SG)/ECE & Mr.P.Venkatesh, AP/ECE. The resource person for the webinar is Mr.G.Guru Prasadh, CEO & Founder, Medsby Healthcare and Engineering Solutions, Coimbatore, explained the types of sensors used in Biomedical Applications. Finally Feedback is collected.



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**Department of  
Electronics and Communication Engineering**  
RIT-IE (I) Students Chapter  
**Organizing Guest Lecture on "Wearable  
Sensors on Biomedical Applications"**  
By  
**Mr.G.Guru Prasadh**  
CEO & Founder  
**Medsby Healthcare & Engineering Solutions**

Date : 27.01.2022  
Time : 3.00 pm  
Platform : Google Meet  
II & III Year ECE Students



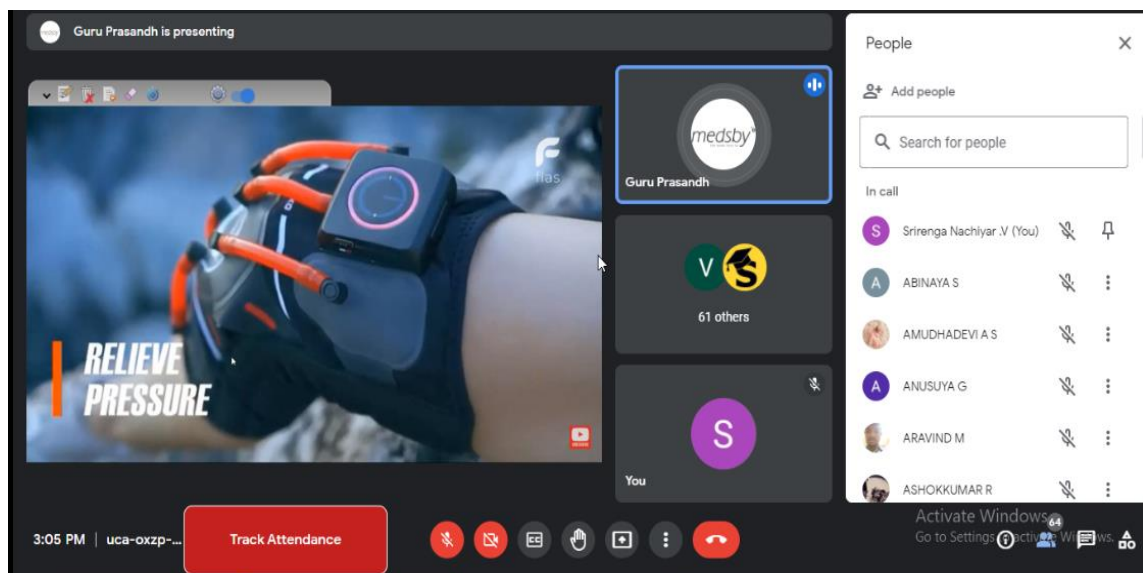
**Chief Patron:**  
Dr.L.Ganesan,  
Principal

**Patron:**  
Dr.S.Rajakumarakarar,  
Vice-Principal

**Convener:**  
Dr.S.Periyasayagi,  
Professor & Head/ECE

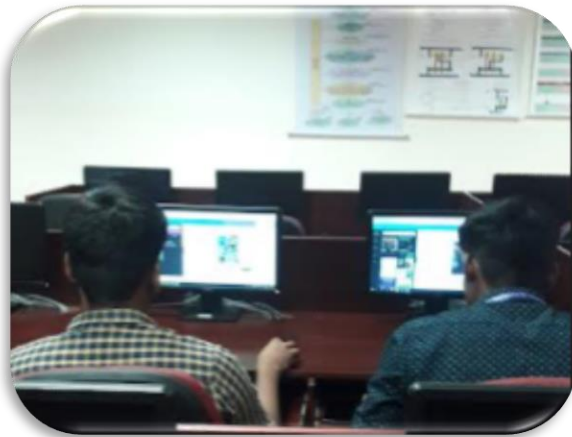
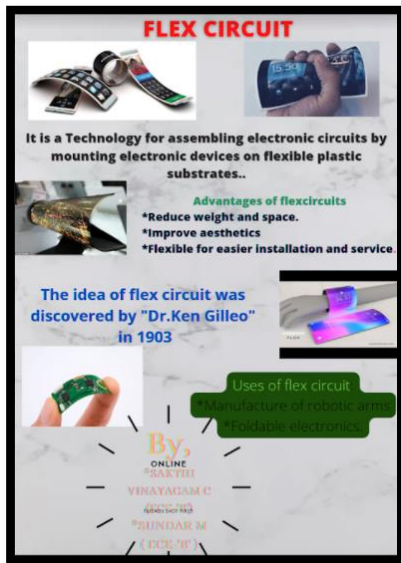
**Faculty Coordinators:**  
Mrs.V.SrirengaNachiyar, AP (Sr.Gr)/ECE  
Mr.P.Venkatesh, AP/ECE

**Students Coordinators:**  
Ms.A.Sushma, III Year ECE B  
Ms.R.Vinothini Rajam, III Year ECE B



Department of Electronics and Communication Engineering in association with **IE (I) student chapter** jointly organized **"Technical Poster Competition"** on National science day celebration 26.02.2022 (Saturday) at DSP Lab for I year ECE students. We provided system with internet connectivity. They came up with amazing creativity. 24 students from I year actively participated in this event. Student's presentation was evaluated by their creativity, originality, content, and design. Ms.S.Harini Shriram AP/ECE, Ms.S.A.Radhika AP/ECE, Mr.D.Gopinath AP/ECE acted as a Jury for this event. Ms.S.Harini Shriram and Ms.S.A.Radhika AP/ECE

coordinated the event. Finally, the designed posters are mailed to [ieiece@ritrjpm.ac.in](mailto:ieiece@ritrjpm.ac.in). E certificate was provided to all the participants.



**IE(I) Students Chapter** of ECE Department organized a **Technical Group Discussion on the topic "E-Learning Pros & Challenges"** on 18.03.2022 for II & III Year ECE students. Around 20 students participated in this Technical Group Discussion. This was organized by the student coordinators Ms.A.Elavarasi III Year ECE A, Ms.M.Shrinithimeena III Year ECE B and the faculty coordinator Mrs.R.Ramalakshmi, AP/ECE. Mr.P.Venkatesh AP/ECE & Mr.L.K.Balaji Vignesh AP/ECE acted as Jury for this event. Ms.L.Rajalakshmi II Year ECE was selected as the I best performer followed by Mr.D.Giritharan III Year ECE & then Ms.S.Sri Nandhini Priya II Year ECE.

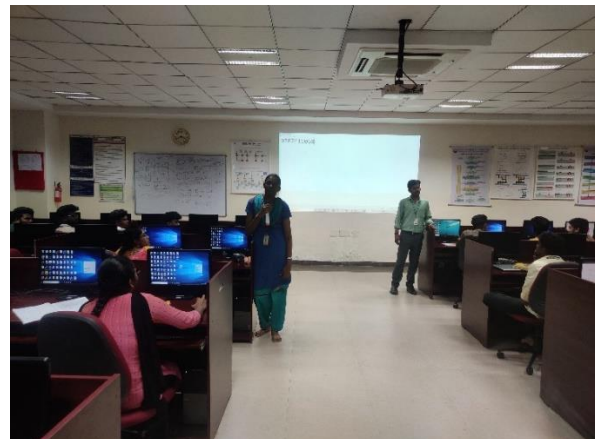
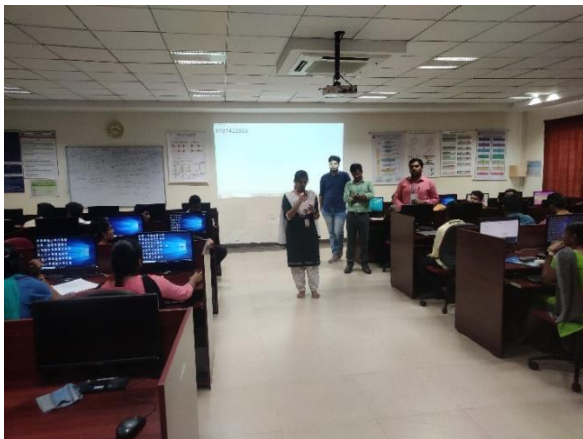


Department of Electronics and Communication Engineering in association with **IE (I) student chapter** jointly organized “**Hackathon**” on 05.05.2022 (Thursday) at ECE Classroom for II, III year ECE students. Dr.S.Vairaprakash ASCP/ECE acted as a Jury for this event. 7 student batches from II, III year students actively participated in this event. Students presented their ideas in the given topic such as Crowd Detection Camera to Prevent COVID, Wireless Door Locking Security System and Detection of Over Speed. Students presentation was evaluated by their Innovation, feasibility of product conversion, presentation, originality and response to queries. Dr.S.Periyanyagi Prof& Head/ECE convener, Dr.K.Ragavan AP(SG)/ECE coordinated the event. Student coordinators Ms.M. Jaya Mahima, III Year ECE A gave welcome address and Ms.S.Prakathi, III Year ECE B gave vote of thanks. Finally student’s feedbacks are collected.



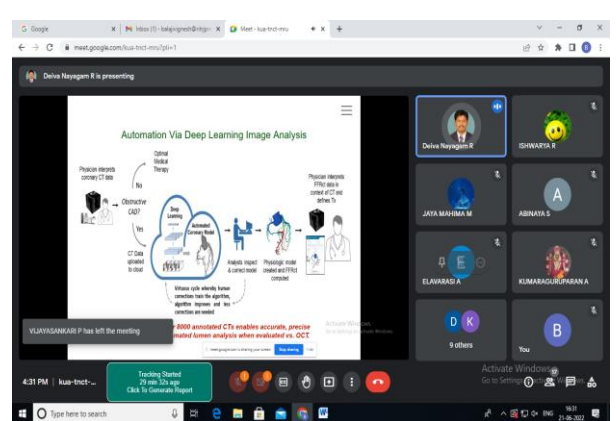
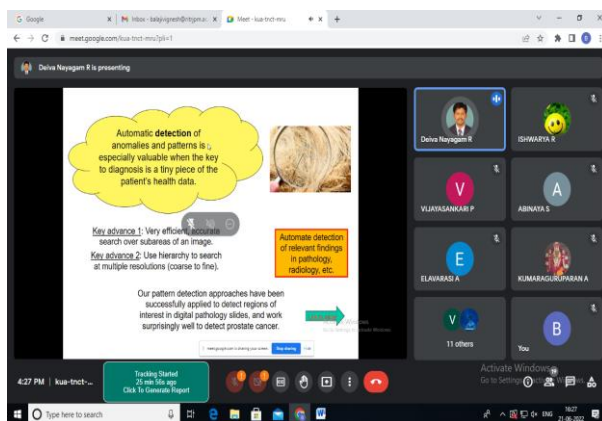
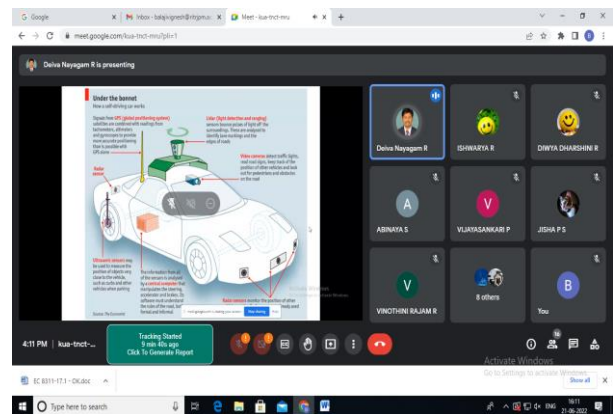
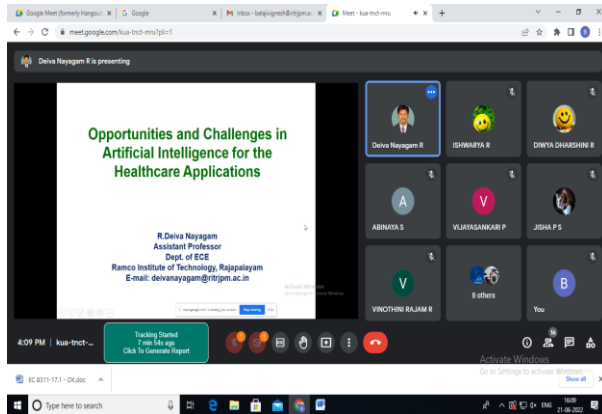
**IE(I) Students Chapter** of ECE Department organized Workshop on “**Machine Learning & its Applications with Python**” on 27.05.2022. Totally **43 students from II & III year ECE students of RIT** were attended and benefitted through this program. The programme started at 10.00 AM at the DSP Laboratory. Mr.R.Deiva Nayagam, AP/ECE, welcomed the participants and the resource people. Mr.A.Nithish Balaji, III ECE, introduces the chief guests.

Mr.C.Arunachalam, Senior Data Analyst at Secure Kloud Technologies in Chennai, discussed Python fundamentals and data types. He gave a hands-on introduction to the Python programming language. Then he explained the concepts of machine learning and its applications. The resource person clarified the students' doubts whenever they asked.



Department of Electronics and Communication Engineering in association with **IE (I) student chapter** jointly organized a Webinar titled “**Challenges and Opportunities of Artificial Intelligence (AI) in Healthcare Applications**” on 21.06.2022 (Tuesday) through Online Mode (Google Meet) for II & III year ECE students. 22 students from III year ECE were actively participated in this webinar. Resource Person Mr.R.Deiva Nayagam, AP/ECE delivered a wonderful session about Artificial Intelligence and its Applications. Students interact and gain more information’s about Challenges and Opportunities of Artificial Intelligence (AI) in Healthcare

Applications. Mr.A.Rameshbabu, AP/ECE coordinated the event. Student coordinators Ms.R.Ishwarya and Ms.P.Vijayasankari, gave welcome address and vote of thanks. Finally student's feedbacks were collected.



**RAMCO INSTITUTE OF TECHNOLOGY**  
Rajapalayam  
Department of Electronics and Communication Engineering  
IETE Students chapter ECE

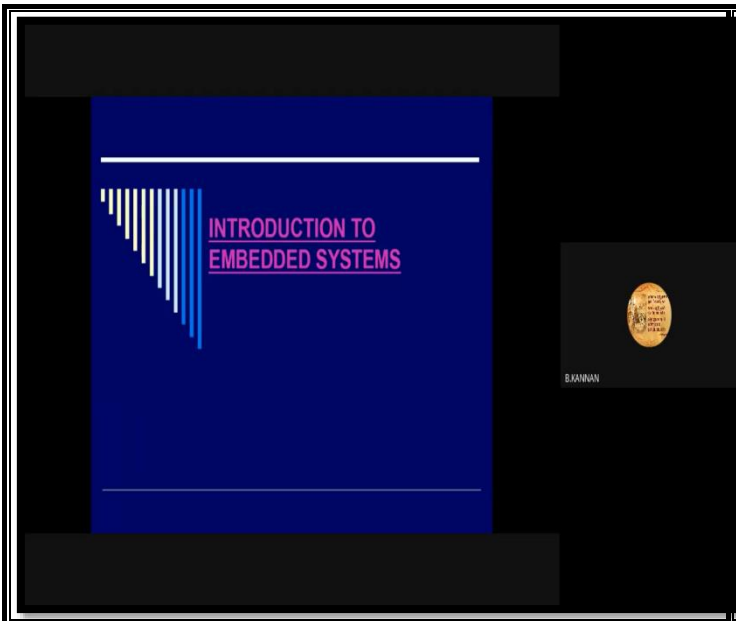
**ANNA UNIVERSITY VALUE-ADDED COURSE**  
**“IVA084 – EMBEDDED SYSTEMS DESIGN USING ARM LPC2148”**

The Department of Electronics and Communication Engineering hosted an Anna University Value Added Course on "IVA084 - Embedded Systems Design Using ARM LPC2148" for III year ECE students at our institution from September 5 to November 21, 2021. The training lasted 30 hours and was delivered via Google Meet, an online platform. The program's course coordinator was Mr.B.Kannan, AS (SG)/ECE.

The external resource person for this VAC is Mr.S.Mohamed Safiyur Rahman, ES-Active Safety (RBEI/ESC), Robert Bosch GmbH, Germany. The internal resource persons for this value-added course are, 1. Mr. B. Kannan, AP (S.G.)/ECE; 2. Mr. R. Deiva Nayagam, Assistant Professor/ECE; 3. Mr. G. Sivakumar, AP/ECE; and 4. Mr. A. Rameshbabu, AP/ECE.

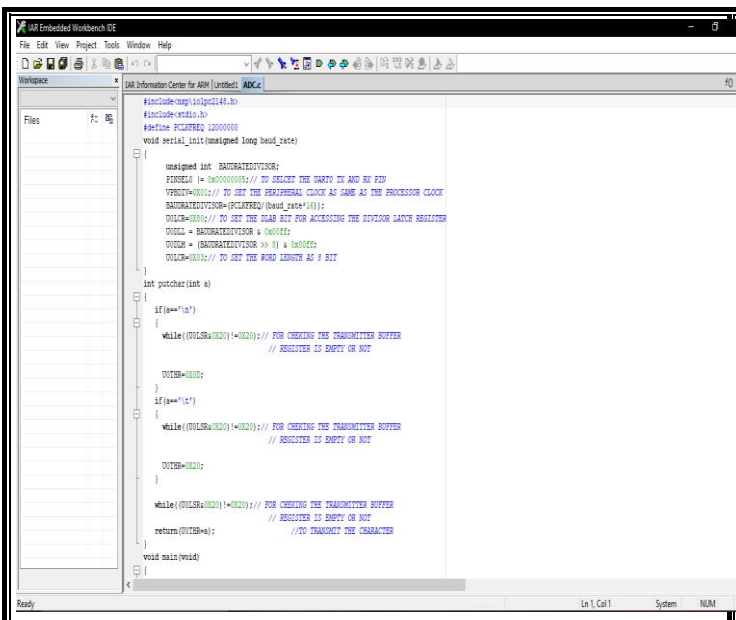
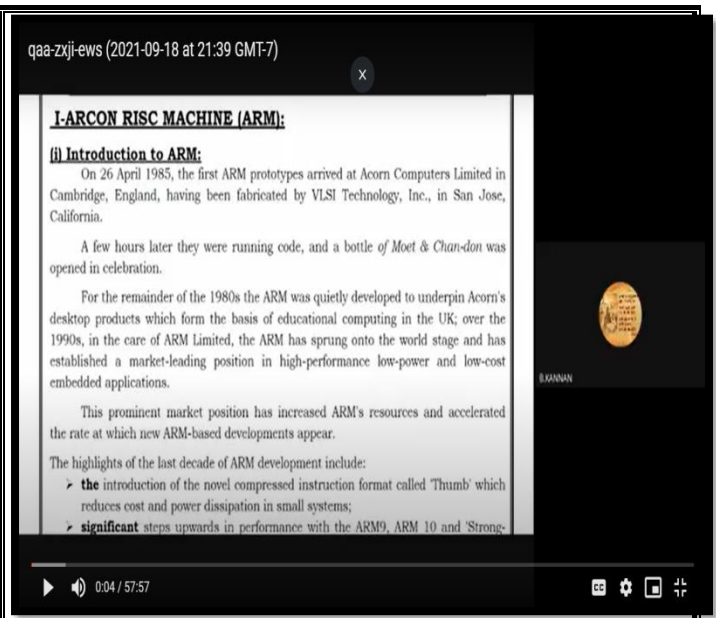
From this value-added course, students learned the basics of embedded systems and other topics such as selection of processor and memory devices for embedded, ARM processors and their versions, ARM7, ARM9, and ARM11, the programmer's model of the ARM processor, the interrupt structure of the LPC2148, EEPROM using I2C, and how to write an embedded C program.

Eventually, utilising the ARM LPC2148 and IAR Workbench with a C application, students may construct a basic system. Two evaluations (objective examinations) were undertaken to measure the students' learning. Students' input on the course was also collected via Google Meet.



The course started with course objectives and outcomes and an introduction to embedded systems and their significance and flowed through the role of processors in embedded systems, the layered architecture of an embedded system, features of an embedded system, real-time systems, and language for programming embedded systems, which helps the students to refresh the concept.

The ARM LPC2148 features and the architecture of the ARM processor were discussed. The data types supported by the ARM processor and the different operating modes of the ARM processor are also explained to the students. Finally, the session was completed with the registration and CPSR working principles.



Using the IAR workbench, students created the hex file for their simple embedded system. This workbench allows the students to write C programs as well as create hex files after the compilation process. The hex file was loaded into the kit using Flash Magic software for the final execution.

## RAMCO INSTITUTE OF TECHNOLOGY

Rajapalayam

Department of Electronics and Communication Engineering

IETE Students chapter ECE

<b>Event name</b>	:	Guest lecture on “ <b>Advances in Antenna design for Biomedical Applications</b> ”
<b>Date &amp; time</b>	:	29.10.2021 & 11.00 A.M - 01.00 P.M
<b>Participants</b>	:	II, III & IV year ECE

Department of Electronics and Communication Engineering in association with **IETE student chapter** jointly organized **Guest lecture on “Advances in Antenna design for Biomedical Applications”** on 29.10.2021 (Friday) at ECE Seminar Hall for II, III & IV year ECE students. The Chief Guest, **Mr.T.Jayanandan, Founder & CEO, Tesla Mind, Chennai** shared his experience and insisted them to learn the basic concepts of the subjects which will help them to get placed in core companies. The students actively participated in the guest lecture by asking various doubts. Dr.S.Periyamayagi Prof& Head/ECE convener, Mr.D.Gopinath AP/ECE & Mr.A.Ramesh babu AP/ECE coordinated the event. Student coordinators Ms.Deepika, gave welcome address and vote of thanks. Finally, students feedback is collected.



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Rajapalayam

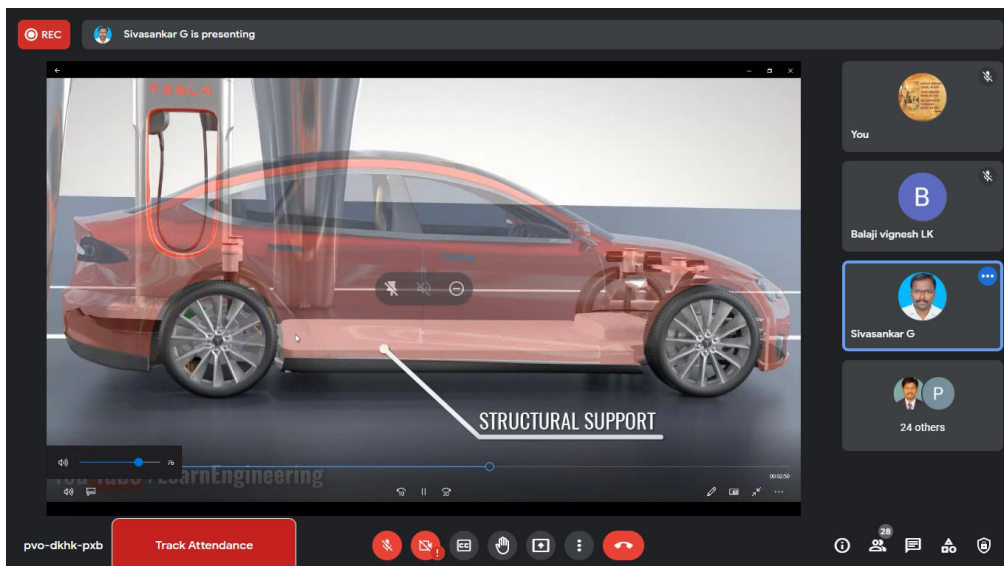
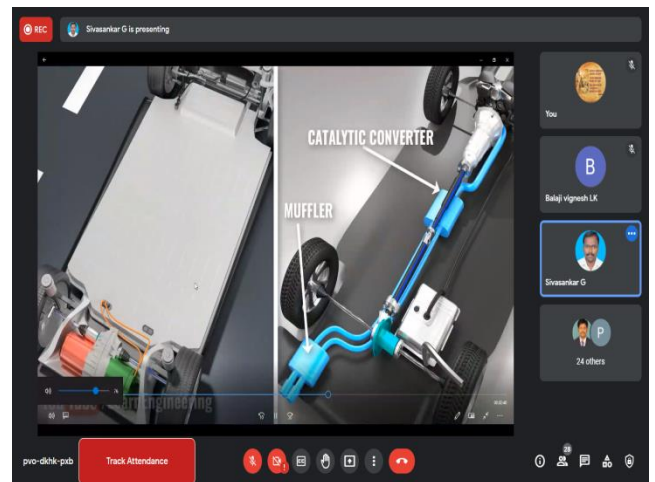
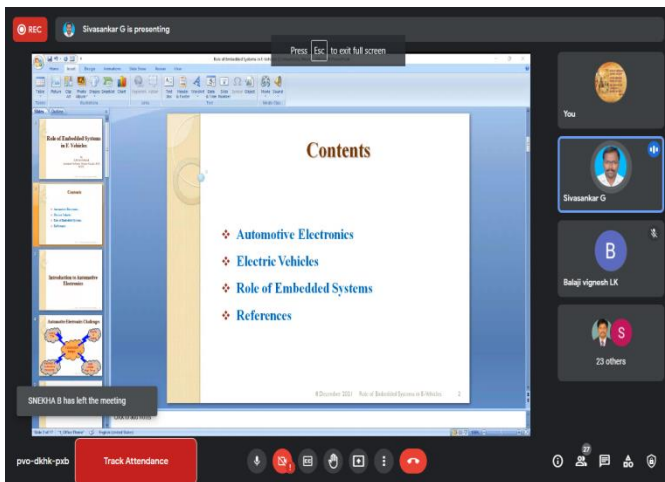
Department of Electronics and Communication Engineering

IETE Students chapter ECE

## EVENT REPORT

**Event name** : Webinar on “Role of Embedded Systems in E-Vehicle”  
**Date & time** : 08.12.2021 & 05.00PM To 06.30PM  
**Participants** : II, III & IV year ECE

Department of Electronics and Communication Engineering in association with the **IETE student forum** organized a **Webinar on “Role of Embedded Systems in E-Vehicle”** on 08.12.2021 (Wednesday) through Google meet for II, III & IV year ECE students. The resource person for the webinar is **Mr.G.Sivasankar, M.E, (Ph.D) Assistant Professor (Sr. Gr.), Department of ECE, Mepco Schlenk Engineering College (Autonomous), Sivakasi**, explained the role of “Embedded Systems in E-Vehicle” as well as systems and software related challenges in the context of electric vehicle design. The students actively participated in the webinar by asking various doubts. Dr.S.Periyanayagi Prof& Head/ECE convener, Mr.B.Kannan, AP(SG)/ECE, and Mr.L.Balaji Vignesh, AP/ECE coordinated the event. Student coordinators Ms.N.Harshethaa, IV Year ECE A and Ms.K.Vishnupriya, IV Year ECE B, gave a welcome address and vote of thanks. Finally, student’s feedback is collected.



The Department of Electronics and Communication Engineering, in association with RIT IQAC and ISO organised One Day National Level Hands on session on “**Working with different Color Modes for Web/Social Media / Print Media**” on 28 Feb 2022 for Non-teaching staff members in DSP Laboratory. Around 24 Non-teaching staff member from RIT and 3 Non-teaching staff member from Sethu Institute of Technology eagerly participated in this event. The main aim of this event is to enhance how to work with different color modes for web/social media/ print media. Dr.S.Suprakash, Associate Professor, Department of IT, Deputy Director Media and Branding, Kalasalingam Academy of Research and Education, Krishnankoil acted as the resource person of this event. Dr. S.Kannan, Professor & Head/EEE, gave the inaugural address. The event was organised by Dr. S.Periyanyagi, Professor & Head / ECE and coordinated by Dr.A.Lakshmi, ASCP/ECE.

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**Hands on Session for**  
**“Working with different color Modes for Web/Social Media/ Print Media”**

Organized by  
**Department of Electronics and Communication Engineering**



in association with  
**RIT IQAC & ISO**





RESOURCE PERSON:

**DR.S.SUPRAKASH**  
Associate Professor, Department of IT,  
Deputy Director Media and Branding,  
Kalasalingam Academy of Research and Education  
Krishnankoil

 **28.02.2022**

 **9.30 am to 4.30 pm**

 **DSP laboratory**

 **Non-teaching Faculty**

Registration fees Rs. 100/- (for Food and Refreshment)

Register here  <https://forms.gle/gNHvQdjs87sTDrcn6>

**Coordinator**  
Dr.A.Lakshmi  
Associate Professor/ECE



**Convenor**  
Dr.S.Periyanyagi  
HOD/ECE

**Chief Patron**  
Dr.L.Ganesan  
Principal

**Patron/ IQAC Coordinator**  
Dr.S.Rajakarunakaran  
Vice Principal

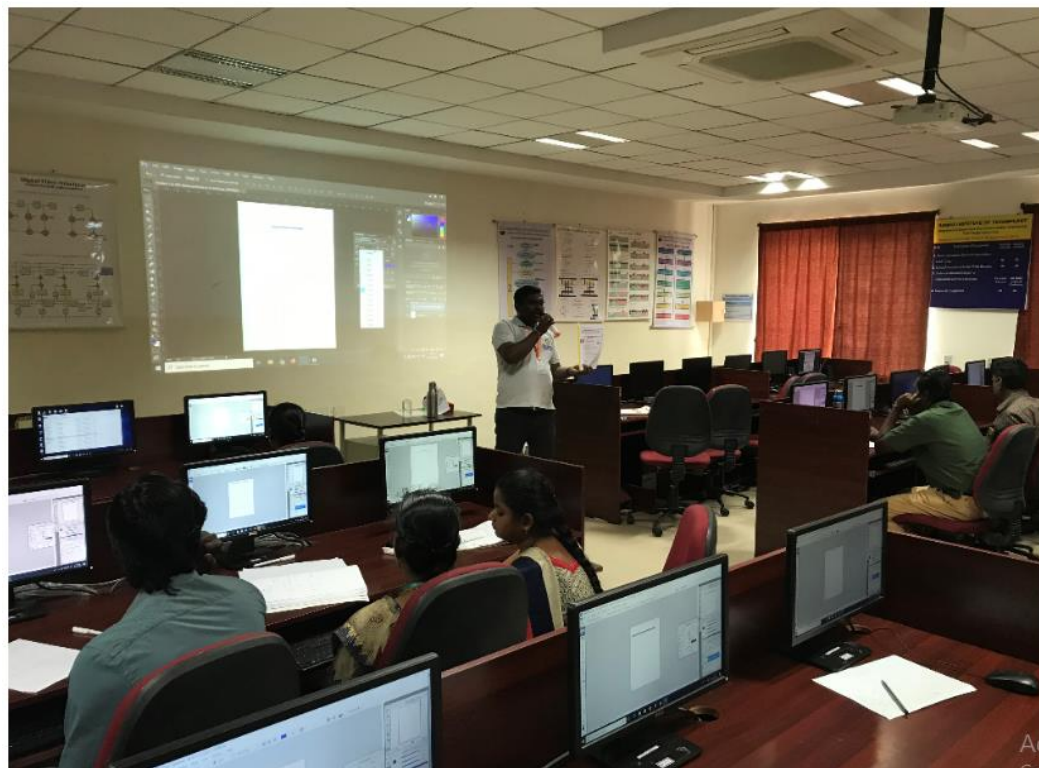




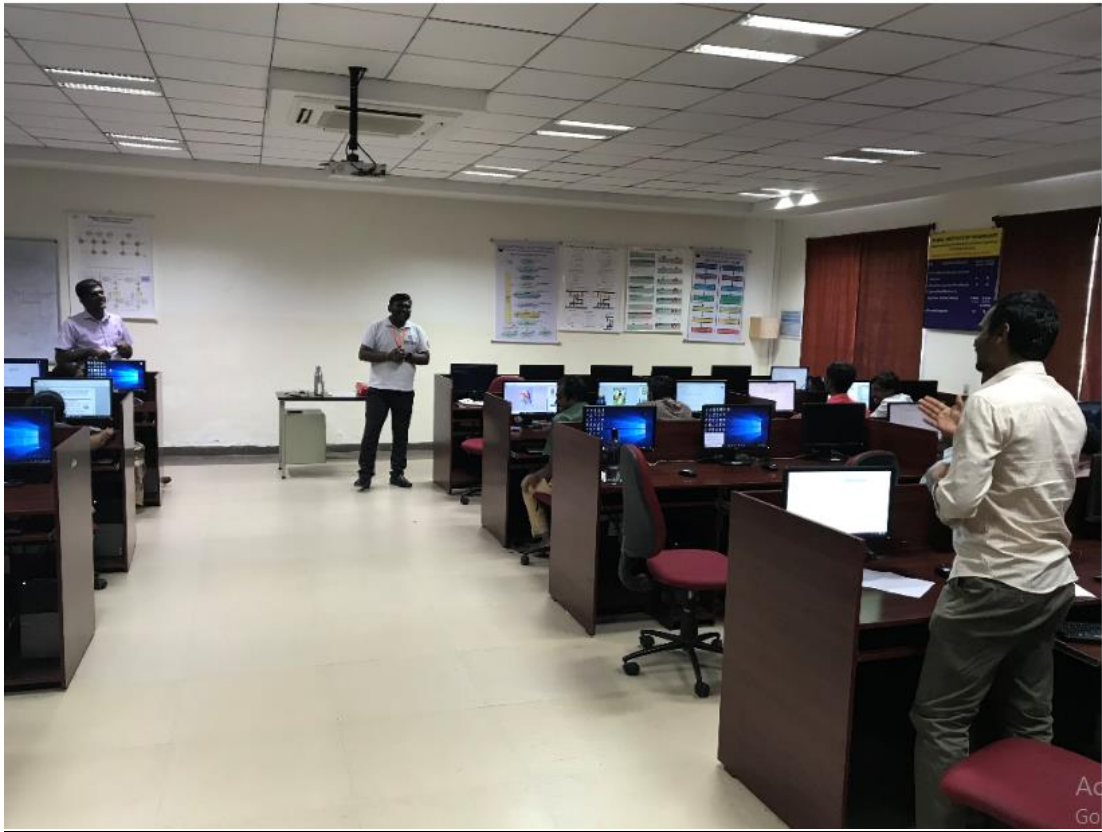
Dr.S.Kannan Professor& Head / EEE providing memento to the resource person Dr.S.Suprakash, Deputy Director Media & Branding, Kalasalingam Academy of Research and Education, Krishnankoil



Dr.S.Kannan Professor & Head/ EEE, delivering the inaugural address



Dr.S.Suprakash, Deputy Director Media & Branding, Kalasalingam Academy of Research and Education, Krishnankoil taking the hands on session for the Non-teaching Staff members



Non-teaching Staff members giving Feedback about the session



Dr.S.Vairaprakash Associate Professor/ECE gave the Vote of thanks.

The Department of Electronics and Communication Engineering conducted a **Faculty Development Programme on RF Measurement Devices for 5G - A Hands-on Approach** in association with ISTE Faculty chapter and Elmack Engg Services from 14.02.2022 to 15.02.2022 for the Internal faculty members of ECE department. Mr.R.Kabilan, Senior Field Application Engineer, Elmack Engg Services, Chennai was the resource person for this FDP. Ten faculty members of ECE department attended this FDP and got benefitted. The resource person explained about the RF measurement devices Vector Network Analyzer, Vector Signal Generator, Spectrum Analyzer and a hands-on-session was also given to the faculty members. The programme was coordinated by the faculty in charges Mrs.G.Gnana Priya, AP(SG)/ECE and Mr.P.Venkatesh,AP/ECE under the guidance of convenor Dr.S.Periyamayagi, Prof. & Head/ECE.





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## 20<sup>th</sup> Annual ISTE Tamil Nadu section Engineering Students Convention

Department of Electronics and Communication Engineering

### Report –Workshop on Industrial Applications of IoT: Smart Cars and Home Automation

**Event:** Workshop

**Date:** 26.03.2022 (10.30 AM to 1.30 PM)

**Venue:** DSP Laboratory

**Faculty Coordinator:** Mr.R.Deiva Nayagam, AP/ECE & Mr.A.Rameshbabu, AP/Civil

**Student Coordinators:** Ms.K.Loggaa Sri Agitha & Mr.P.Veeramanimaran, III year ECE

#### Event Details:

#### **Participation Details:**

Totally 58 participants from various engineering colleges in tamilnadu and III year students of RIT were attended and benefitted through this program.

#### **Workshop details:(26.03.2022/Saturday) (FN)**

The programme was started at 10.30 AM at DSP Laboratory. Mr.R.Deiva Nayagam, AP/ECE welcomed the participants and the resource persons. Ms.K.Loggaa Sri Agitha, III ECE introduce the chief guests.

Mr.Kathirvel Pandian, Freelance Trainer gave an introduction about IoT and brief the importance of IoT in now-a-days. He explained the role of IoT in Home Automation.

Mr.Charlas Rajendran, IoT Architect, Geons Logix, Madurai explained the communication protocols used in IoT Applications. He gave a brief idea about the role of IoT in Smart cars. Finally he demonstrated with simple CAN protocol communication using simulation software. The session ended with Q&A at 1.30 PM.

#### **Certificate Distribution:**

The Certificates were distributed to all the participants by the Resource Person and Event Faculty Coordinators.

## Glimpses of Workshop Series



### Feedback:

Two students gave physical feedback once after the session completes. They replied that they learnt new things which was not studied earlier. Another student replied that the session was very good and understand the concepts was very informative. All others replied the feedback using google forms. The feedback received from the participants were very good, excellent and very useful session. All the participants replied to conduct another programme with the same resource person. After the feedback session, Ms.K.Loggaa Sri Agitha, III year ECE proposed the Vote of Thanks.

### Acknowledgement:

We would like to express our sincere thanks and gratitude to our Management, Principal, Vice-Principal for accepting our proposal for conducting this workshop.



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## 20<sup>th</sup> Annual ISTE Tamil Nadu section Engineering Students Convention Department of Electronics and Communication Engineering

29.03.2022

### Report –Workshop on LabVIEW Programming

**Event:** Workshop

**Date:** 26.03.2022 (10.30 AM to 1.00 PM)

**Venue:** RIT NI LabVIEW Academy

**Faculty Coordinator:** Dr.A.Lakshmi, ASCP/ECE & Mr.P.Gunasekaran, AP/ECE

**Student Coordinators:** Mr.K.Kalimuthu, III ECE A, Ms.A.Sushma, III ECE B  
& Mr.K.Neerathilingam, II ECE B

#### Event Details:

#### **Participation Details:**

- ❖ Totally 14 participants from III year students of RIT and from other colleges benefitted through this program.

#### **Workshop details: (26.03.2022/Saturday) (FN)**

The programme was started at 10.30 AM at RIT NI LabVIEW Academy. Mr.P.Gunasekaran started the workshop on Introduction of LabVIEW and continued the workshop. The session ended with Q&A at 1.30 PM. Finally, student's feedback is collected.

#### **Certificate Distribution:**

Certificate was distributed to all the participants who attended the workshop after filling the feedback. Certificates distributed to the corresponding participants stated in feedback form.

#### **Glimpses of workshop Series**



**Feedback:**

The feedback received from the participants was informative, very useful, and good they requested to conduct another session by the same speakers.



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## 20<sup>th</sup> Annual ISTE Tamil Nadu section Engineering Students Convention

Department of Electronics and Communication Engineering

29.03.2022

### Report – Hands on Session on “Image Processing Using Machine Learning in MATLAB”

**Event:** Workshop

**Date:** 26.03.2022 (10.30 AM to 1.30 PM)

**Venue:** Embedded Laboratory

**Faculty Coordinator:** Dr.S.Vairaprakash ASCP/ECE, Mrs.S.Jeeva, AP/ECE

**Student Coordinators:** Mr.S.Hariharan III ECE A, Mr.Nhidhees Laksh Kumar III ECE B  
Ms.S.Monica II ECE B, Mr.K.Neerathilingam II ECE B

#### **Event Details:**

#### **Participation Details:**

- ❖ Around 70 (Seventy) participants from II, III & IV year students of RIT and from external colleges benefitted through this program.

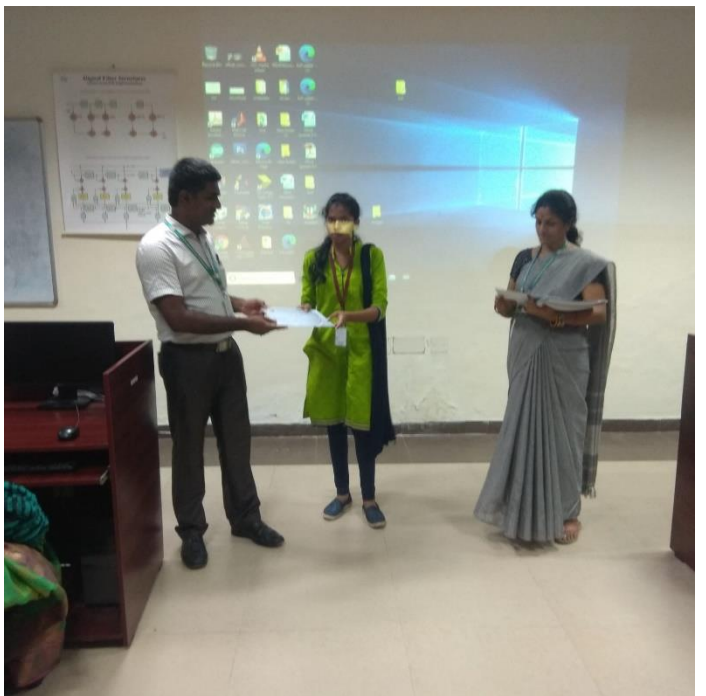
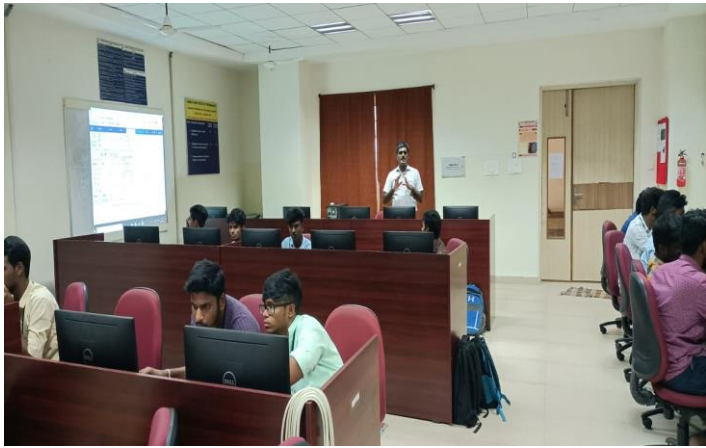
#### **Workshop details:(26.03.2022/Saturday) (FN)**

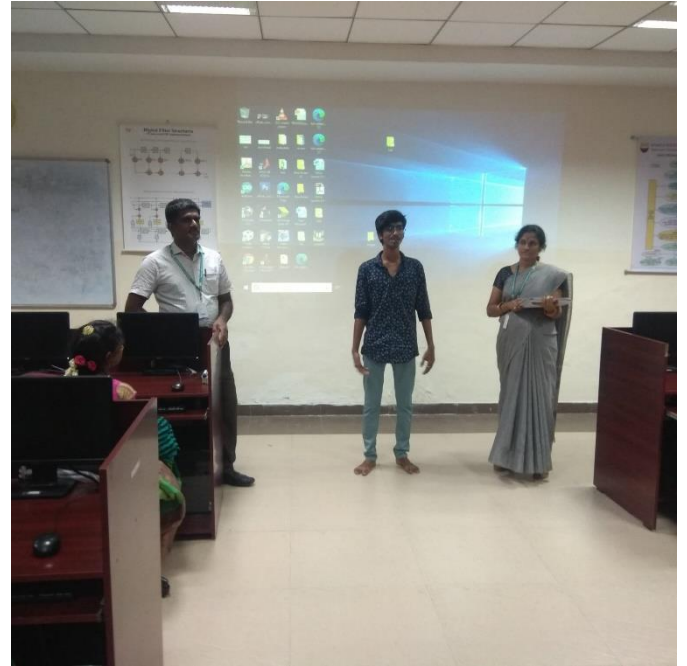
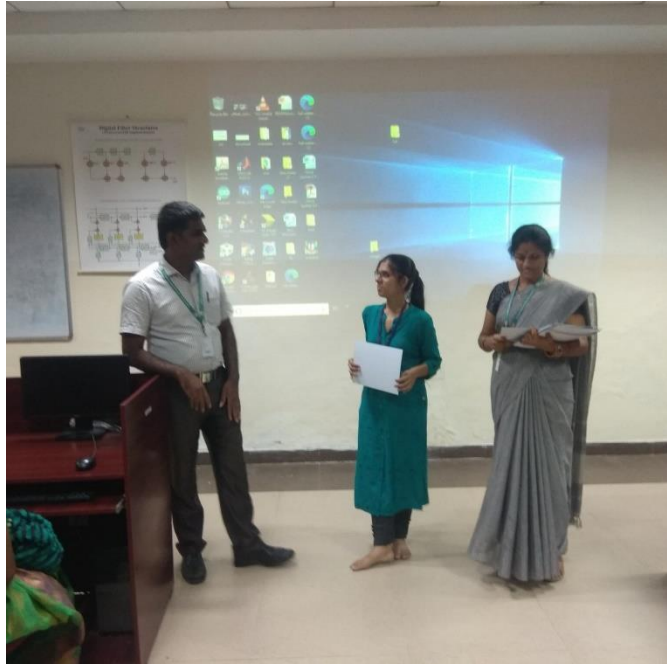
The programme was started at 10.30 AM at Embedded Laboratory. Dr.S.VairaPrakash ASCP/ECE started the workshop on Introduction of Digital Image Processing, Inbuilt MATLAB commands related to Image Processing and Machine Learning Applications and Mrs.S.Jeeva AP/ECE continued the workshop with various project Ideas related to Image Processing like satellite Images, Agriculture Images and Medical Images. The hands on training was handled by Dr.S.VairaPrakash ASCP/ECE and Mrs.S.Jeeva AP/ECE at 11.30 P.M. The session ended with Q&A at 1.10 PM. The participants interacting with the Resource Person and clearing their doubts.

#### **Certificate Distribution:**

Certificate was distributed to all the participants who attended the workshop. The prepared the feedback google form was sent to all the participants. Workshop materials shared to the corresponding participants stated in feedback form.

## Glimpses of workshop Series





### **Feedback:**

At the end of the session feedbacks were collected from the participants. The participants gave their valuable feedbacks about the workshop. The feedback received from the participants were informative, very useful, good and they requested to conduct another session by the same speakers.

### **Acknowledgement:**

We would like to express our sincere thanks and gratitude to our Management, Principal, Vice-Principal for accepting our proposal for conducting this workshop.



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## 20<sup>th</sup> Annual ISTE Tamil Nadu section Engineering Students Convention

Department of Electronics and Communication Engineering  
Report –Hands on Session on “Antenna Design”

29.03.2022

**Event:** Workshop

**Date:** 26.03.2022 (10.30 AM to 1.00 PM)

**Venue:** LIC Laboratory

**Faculty Coordinator:** Mr.D.Gopinath AP/ECE & Mr.L.K.Balaji Vignesh AP/ECE

**Student Coordinators:** Mr.T.Naveen Ajay Kumar, III year ECE B, Ms.K.Priyadharshni, II Year  
ECE B & Mr.V.Karthikeyan, II Year ECE A

### Event Details:

#### **Participation Details:**

- ❖ Totally 37 (Thirty-Seven) participants from II, III year students of RIT and from external colleges benefitted through this program.

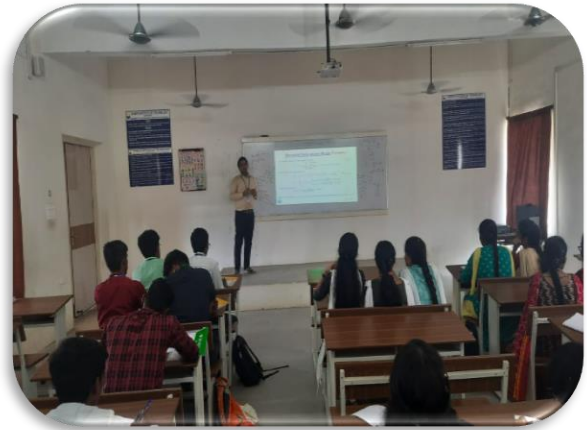
#### **Workshop details:(26.03.2022/Saturday) (FN)**

The programme was started at 10.30 AM at LIC Laboratory. Mr.D.Gopinath started the workshop on Introduction of Antenna design and its parameters and Mr.L.K.Balaji Vignesh continued the workshop with hands on session on Advanced Design System (ADS) Tool. The session ended with Q&A at 1.10 PM.

#### **Certificate Distribution:**

Certificate was distributed to all the participants who attended the workshop after filling the feedback using google forms. Ms.K.Priyadharshni, II Year ECE B prepared the feedback form and the same was sent to all the participants. Certificates distributed to the corresponding participants stated in feedback form.

## Glimpses of workshop Series



### Feedback:

The feedback received from the participants were informative, very useful, good and they requested to conduct another session by the same speakers

**Acknowledgement:**

We would like to express our sincere thanks and gratitude to our Management, Principal, Vice-Principal for accepting our proposal for conducting this workshop.



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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### ANNA UNIVERSITY VALUE ADDED COURSE IVA085 DESIGN AND ANALYSIS OF MOS CIRCUITS

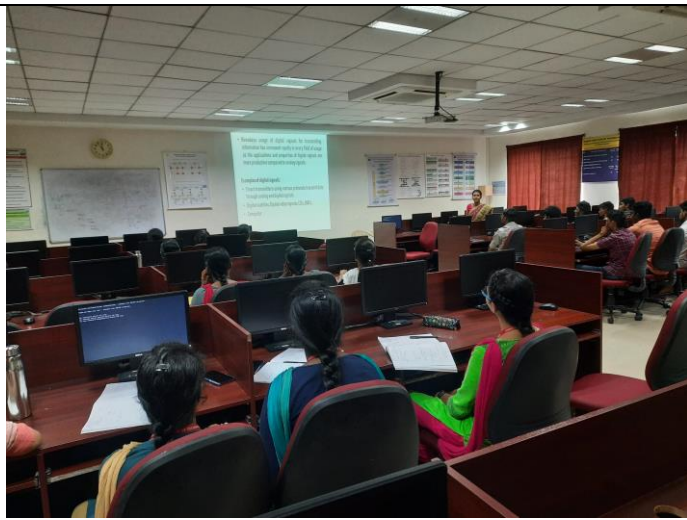
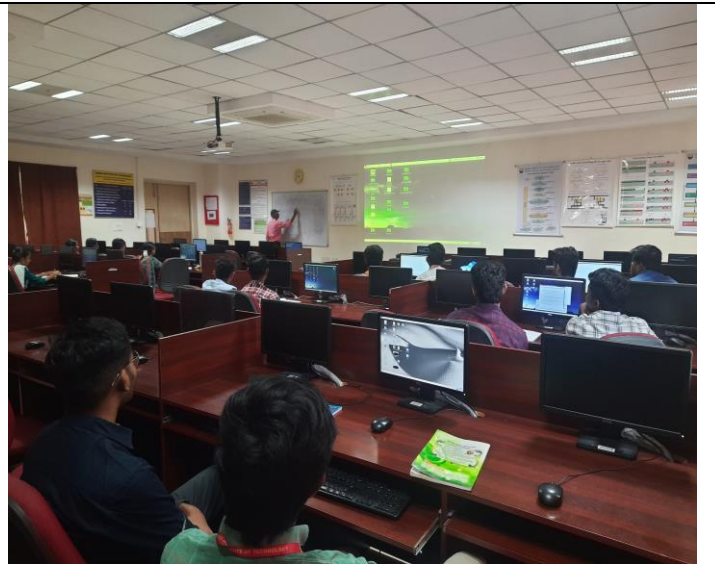
The Department of Electronics and Communication Engineering hosted an Anna University Value Added Course on “IVA085 DESIGN AND ANALYSIS OF MOS CIRCUITS” for III year ECE students at our Institution from August 1 to August 6, 2022. The Training lasted 35 hours.

The resource persons for this value added course are 1. Dr. A. Azhagu jaisudhan Pazhani, Associate Professor-ECE; 2. Mr. S. Vijayakumar, Assistant Professor-ECE; 3. Mrs. G. Subhashini, Assistant Professor-ECE; 4. Mr. A. Ramesh Babu, Assistant Professor-ECE; 5. Dr. R. Rajalakshmi, Assistant Professor-ECE; 6. Mrs. V. Sirenga Natchiar, Assistant Professor-ECE; 7. Mrs. R. Ramalakshmi, Assistant Professor-ECE.

From this value added course, students learned the basics of MOS circuits and other topics such as MOS transistor structure and device modelling, on-ideal effects of MOSFET, Design and simulation of CMOS inverter Amplifier, MOS capacitance, Layout Versus schematic, IC Opamp applications, Instrumentation Amplifiers, on linear Circuits, Voltage controlled Oscillator, PLL-Phase Locked Loop, DAC and ADC.

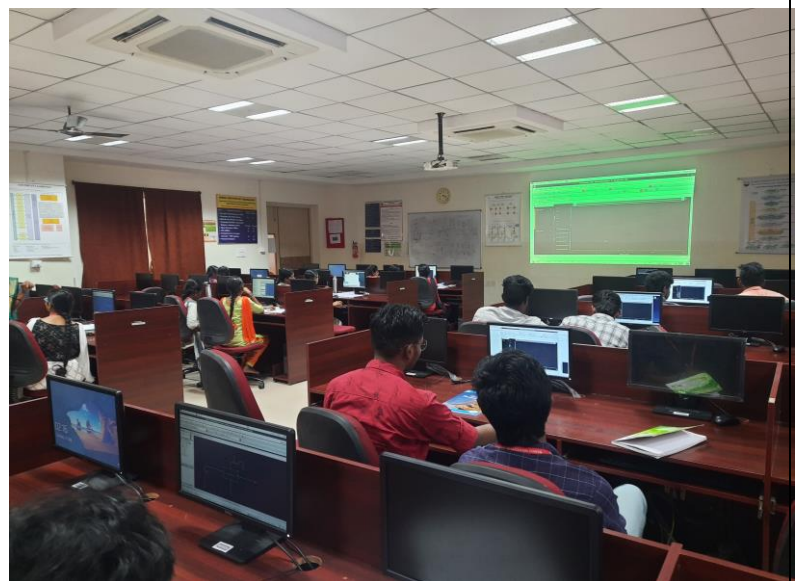
Eventually, utilising the EDA tool, students may be design the various MOS circuits. Two evaluations (Objective examinations) were undertaken to measure the students learning. Students feedback on the course was also collected.

The Course began with course objectives and course outcomes as well as an overview of MOS circuits and Design and Analysis procedures. MOS capacitance, Concept of transition frequency, IC OP-AMP applications, introduction to EDA tools, Layout versus schematic, Design of CMOS Universal gates and verify its input and output characteristics were discussed.



Design and Simulation of one bit Analog to Digital converters using CMOS technology. It then moved on to discuss the roles and importance of MOS transistor structure and device modelling, on-ideal effects of MOSFET, Design and simulation of CMOS inverter Amplifier. Which helps the students to refresh the concepts.

Using EDA tool students learnt Design of CMOS Universal gates and verify its input and output characteristics, Design and Analyse the gain and frequency response of single stage operational amplifier. Design and Simulation of one bit Analog to Digital converters using CMOS technology.





# **RAMCO INSTITUTE OF TECHNOLOGY**

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## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**ANNA UNIVERSITY VALUE ADDED COURSE  
ON  
IVA084 – EMBEDDED SYSTEMS DESIGN USING ARM  
LPC2148**

**01.08.2022 to 06.08.2022**

### **Resource Persons**

Mr. B.Kannan, AP(S.G.)/ECE, Ramco Institute of Technology  
Mr. R.Deiva Nayagam, AP/ECE, Ramco Institute of Technology  
Mr.P.Gunasekar, AP/ECE, Ramco Institute of Technology  
Mrs.G.Gnanapriya, AP(SG)/ECE, Ramco Institute of Technology  
Dr.S.Vairaprakash, Associate Professor/ECE, Ramco Institute of Technology

**Prepared by:**  
Mr.B.Kannan

**Approved by:** HOD  
Dr.B.Deepalakshmi



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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### ANNA UNIVERSITY VALUE-ADDED COURSE

### “IVA084 – EMBEDDED SYSTEMS DESIGN USING ARM LPC2148”

The Department of Electronics and Communication Engineering hosted an Anna University Value Added Course on "IVA084-Embedded Systems Design Using ARM LPC2148" for III-year ECE students at our institution from August 1 to August 6, 2022. The training lasted 35 hours.

The resource persons for this value-added course are 1. Mr.B.Kannan, AP (S.G.)/ECE; 2. Mr.R.Deiva Nayagam, AP/ECE; 3. Mr.G.Sivakumar, AP/ECE; and 4. Mr.P.Gunasekar, AP/ECE, Mrs.G.Gnanapriya, AP(SG)/ECE and Dr.S.Vairaprakash, Associate Professor/ECE.

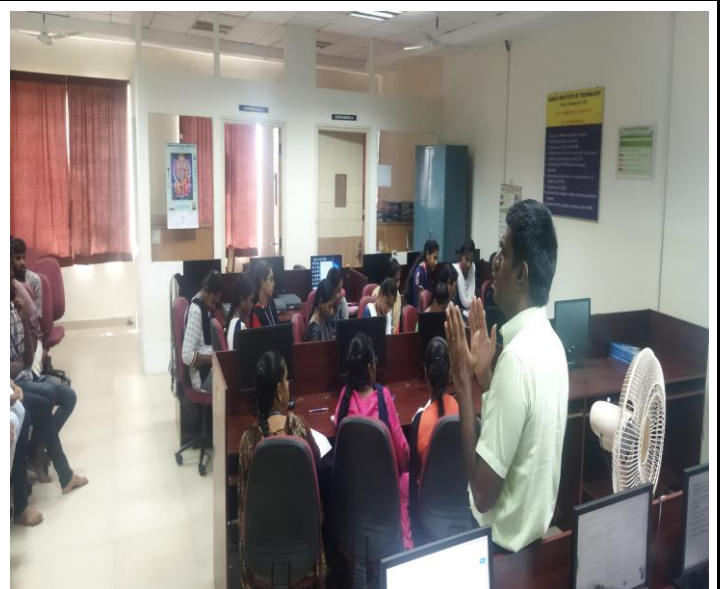
From this value-added course, students learned the basics of embedded systems and other topics such as the selection of processor and memory devices for embedded, ARM processors and their versions, ARM7, ARM9, and ARM11, the programmer's model of the ARM processor, the interrupt structure of the LPC2148, EEPROM using I2C, and how to write an embedded C program.

Eventually, utilising the ARM LPC2148 and IAR Workbench with a C application, students may construct a basic system. Two evaluations (objective examinations) were undertaken to measure the students' learning. Students' feedback on the course was also collected.



The course began with course objectives and outcomes as well as an overview of embedded systems and their importance. It then moved on to discuss the role of processors in embedded systems, the layered architecture of an embedded system, features of an embedded system, real-time systems, and programming languages for embedded systems, which helps the students to refresh the concept.

The ARM LPC2148 features and the architecture of the ARM processor were discussed. The data types supported by the ARM processor and the different operating modes of the ARM processor are also explained to the students. Finally, the session was completed with working principles.



Using the IAR workbench, students created the hex file for their simple embedded applications. This workbench allows the students to write C programs as well as create hex files after the compilation process. The hex file was loaded into the kit using Flash Magic software for the final execution.

**Department of Mechanical  
Engineering**



# RAMCO INSTITUTE OF TECHNOLOGY

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Department of Mechanical Engineering  
Academic Year 2020 – 2021 (Even Semester)

## Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Scope in Mechanical Engineering
02.	Programme Theme	School Event
03.	Programme Type	Webinar
04.	Details of resource person	Ms.P.Keerthana, Associate Consultant, Krysalis Consultancy Services Private Limited, Chennai
05.	Mode & Venue / Platform	Online & Google Meet
06.	Date & Duration	19.06.2021 & 10am to 11am
07.	No. of Student Participants	50
08.	No. of Faculty Participants	4
09.	No. of External Participants	15
10.	Expenditure amount (if any)	-
11.	Social Media URL	<a href="https://youtu.be/WpjYHcHBaOY">https://youtu.be/WpjYHcHBaOY</a>
12.	Video URL (if any)	<a href="https://youtu.be/WpjYHcHBaOY">https://youtu.be/WpjYHcHBaOY</a>

### **13. Objective of the Programme:**

- To provide information about job opportunities available for Mechanical Engineering Stream.
- To encourage +2 students to pursue Mechanical engineering stream.
- To discuss about the different job positions like design, manufacturing, purchasing of materials, quality control and marketing in Mechanical concerns and its significant importance.

### **14. Detail description of the activity:**

Department of Mechanical Engineering in association with RIT-IWS Student Forum, RIT-ISTE Student Chapter, RIT Mechanizo, RIT-IE(I), RIT Alumni Association and RIT IIC organized Online webinar titled “**Scope in Mechanical Engineering after +2 / Diploma**” on 19.06.2021. More than 50 participants from various schools, polytechnics and engineering college students were actively participated in this programme. **Ms. P. Keerthana**, Associate Consultant, Krysalis Consultancy Services Private Limited, Chennai and she is our RIT Alumni-Mechanical Engineering (Batch:2015-19) acted as a resource person for this programme. She explained about the various stream areas available in the field of Mechanical Engineering in industries, job opportunities and different fields where a Mechanical Engineer can work. Dr.P.Sureshkumar, ASCP/Mech. Mr.S.Maharajan,AP/Mech, Mr.K.Vigneshwaran, AP/Mechanical were acted as a coordinator for the programme under the guidance of Dr.L.Ganesan, Principal, Dr.S.Rajakarunakaran, Vice-principal and Mr.K.S.Selvaraj, DGM(A).

### **15. Banner / flyer of the programme:**

**RAMCO INSTITUTE OF TECHNOLOGY**  
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**Department of Mechanical Engineering**

in association with  
**RIT-IWS Student Forum, RIT-ISTE Student Chapter**  
**RIT-MECHANIZO, RIT-IIC, RIT-Alumni & RIT-IE(I)**

Presents

**Online Webinar On**  
**"Scope in Mechanical Engineering after +2/Diploma"**

*Expert Speaker*  
**Ms.P.Keerthana**  
 Associate Consultant,  
 Krysalis Consultancy Services Private Limited,  
 Chennai.  
 RIT Alumni-Mechanical Engg (Batch 2015-19)



 **Google Meet Link**  
<https://meet.google.com/hsd-drqp-ehf>

**Registration Link**  
<https://tinyurl.com/vnuzyt9x>

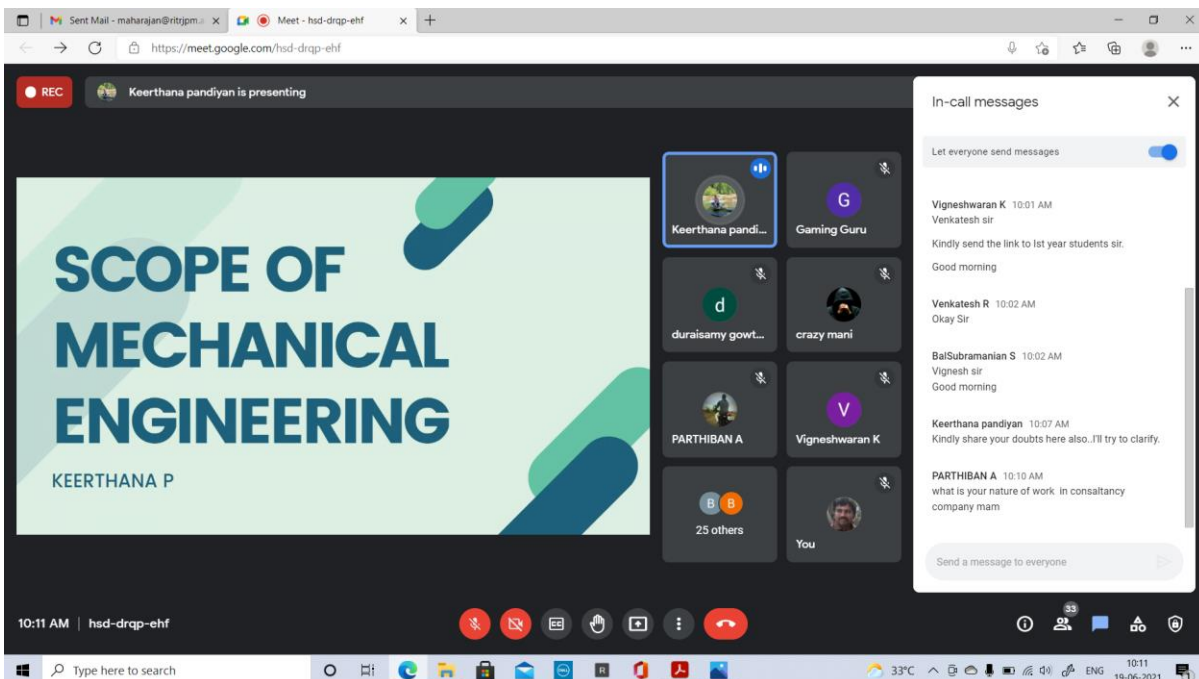
**Date: 19.06.2021 (Saturday)**  
**Time: 10.00 am to 11.00 am**

Dr.P.Sureshkumar, Asst/Mech  
 Mr. S. Mahalingam, AP/Mech  
 Mr.K.Vigneshwaran, AP/Mech  
 Faculty Coordinators

Dr.S.Ramkrishnakumar  
 Vice Principal  
 Patron

Dr.L.Ganesan  
 Principal  
 Chief Patron

**16. Programme Photographs: (Two Photographs)**



10:12 AM | hsd-draq-ehf

Keerthana pandiyan is presenting

Indifference and neglect often do much more damage.

J.K. ROWLING

People

- Mute all
- Add people
- Host controls

IN CALL

- Maharajan S (You)
- 18 2203.B.Anbarasu
- 192043 SELVARAJ A
- 192048 SOUNTHARAPAN...
- 24 GURUSAMY K
- 39 C. Thanga Dinesh
- 64 RAJASIMHA REDDY S
- Aathi 13

10:12 33°C ENG 19-06-2021

10:17 AM | hsd-draq-ehf

Keerthana pandiyan is presenting

MECHANICAL ENGINEERING

WHO WE ARE AND WHAT WE DO

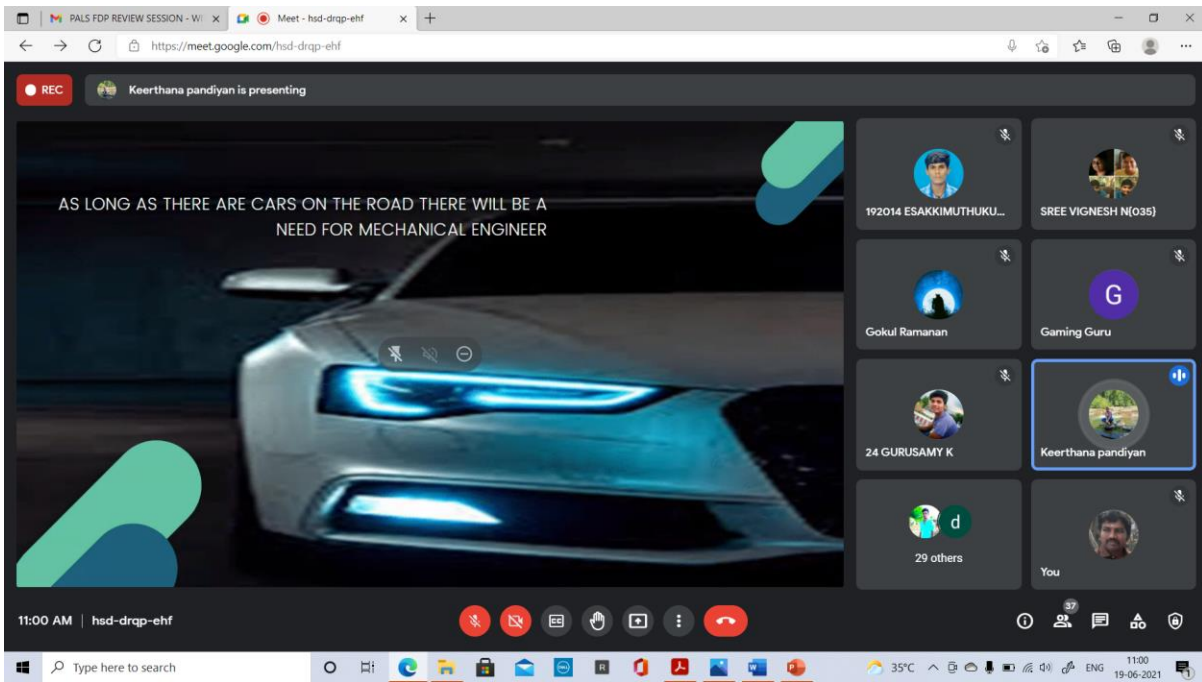
People

- Mute all
- Add people
- Host controls

More actions

- ASHOK R
- Bala kumar
- Balaji Balaji
- BalSubramanian S
- crazy mani
- duraismy gowtham
- Gaming Guru
- Gokul Krishnan
- HARISHH

10:17 33°C ENG 19-06-2021



**Prepared by:**  
**Mr.S.Maharajan, Assistant Professor**  
**Mechanical Engineering.**

**Approved by**



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## Academic Year: 2021 – 2022 RIT-ISTE Students Chapter Organizes SPECIAL LECTURE CUM LAB VISIT

### Report

## RESEARCH TRENDS IN SOLAR APPLICATION: LAB VISIT

**Date:** 22.10. 2021

**Time:** 02.40 PM to 03.50 PM (IST)

**Venue:** Seminar Hall and Energy Laboratory

**Faculty Co-ordinators:**

Mr. T.Selva Sundar, AP/Mech

**Student Co-ordinators:**

Bharath K

Bharanidharan R

Soumya Souvik Khuntia

III Year Mech

**Resource Person:** Mr.R.Arunkumar, Assistant Professor from Mechanical Department

A Special Lecture Cum Lab Visit On Research Trends in Solar Application for RIT students was organized by RIT ISTE Student Chapter, on 22<sup>nd</sup> October 2021 at Mechanical Seminar Hall from 02.40 PM to 03.00 PM. Totally 47 Students from CSE, EEE and Mechanical Engineering departments registered for this event. Mr.R.Arunkumar, Assistant Professor from Mechanical Department delivered the Lecture about Research trends in Solar Application and also the experts were explained the concepts of solar energy with the help of Energy Laboratory Solar Models. Totally 33 students attended the Program. Participants attended the assessment and E-Certificate was distributed to the Participants.







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NBA ACCREDITED UG PROGRAMS: CSE, EEE, ECE AND MECH  
INDIAN SOCIETY FOR TECHNICAL EDUCATION – STUDENT CHAPTER ( TN 336 )



## Certificate of Appreciation

This is to certify that M. MAHARAJA, EEE of Ramco Institute of technology has participated in the **RESEARCH TRENDS IN SOLAR APPLICATION:LAB VISIT** organized by Department of Mechanical Engineering RIT - Indian Society for Technical Education – Student Chapter (TN336) on 22.10.2021.

**ATDZOA-CE000003**

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INDIAN SOCIETY FOR TECHNICAL EDUCATION – STUDENT CHAPTER ( TN 336 )



## Certificate of Appreciation

This is to certify that B.RAMKUMAR, MECH of Ramco institute of technology has participated in the **RESEARCH TRENDS IN SOLAR APPLICATION:LAB VISIT** organized by Department of Mechanical Engineering RIT - Indian Society for Technical Education – Student Chapter (TN336) on 22.10.2021.

**ATDZOA-CE000006**

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North Venganallur, Rajapalayam - 626 117, Tamilnadu



## DEPARTMENT OF MECHANICAL ENGINEERING ISTE Student Chapter (TN336)

Organizes

SPECIAL LECTURE CUM LAB VISIT ON

# RESEARCH TRENDS IN SOLAR APPLICATION: LAB VISIT

Mr.R.Arunkumar,  
Assistant professor,  
B.E., M.E., Pursuing  
Ph.D,



**OCT 22, 2021 | 02:40-3:50 PM**

**VENUE: MECHANICAL**

**SEMINAR HALL AND SOLAR ENERGY  
LABORATORY**

Student Coordinator  
Bharath K  
Bharanidharan R  
Soumya Souvik Khuntia  
III Year Mech

Faculty Coordinator  
Mr.T.Selva Sundar  
AP/Mechanical

Faculty Secretary'  
Dr.P.Suresh Kumar  
Asso Professor/mech

Faculty Chairman  
Dr.K.Vijayalakshmi  
Professor & Head/CSE

Patron  
Dr.S.Rajakarunakaran  
Vice Principal

Chief Patron  
Dr.L.Ganesan  
Principal

## Attendance Proof:

### RAMCO INSTITUTE OF TECHNOLOGY

Department of Civil Engineering

#### Training Programme Attendance details

Title of the Programme: Research Trends in Solar Application: Lab Visit

Date and Venue: 22.10.2021 & Mechanical Seminar Hall

Class for whom it was conducted: Interested Students of RIT

Name, Designation and Address of the Resource Person / Speaker: Mr.R.Arun Kumar, Assistant Professor, Department of Mechanical Engineering, RIT Rajapalayam

#### Details of Participants:

Sl. No.	Name of the Participant	Year & Department	Signature of Participants
1.	Bharathi - K	III - Mech	
2.	P.R. VIJAY JAGANATH	III - MECH	
3.	Bharathi - M	III - Mech	
4.	Stathowfeek - S	III - mech	
5.	Hanitharan V.P	III - mech	
6.	Raja Sekarban - K	III - mech	
7.	MANOJ BHIVAKAR	III - Mech	
8.	R.K.VENKATESHAN	III - EEE	
9.	M. Maharaja	III - EEE	
10.	Arun Kumar - S	III - EEE	
11.	S. Shama kumar	III - EEE	
12.	J. Abimanya	III - EEE	
13.	H. Mubish Akash Varun	III - EEE	

Form No. TP 03

Rev.No. 00

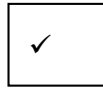
Page 1 of 3  
Effective Date: 18.01.2016

Sl. No.	Name of the Participant	Year & Department	Signature of Participants
14.	Anurati Krishnan	III + Mech	
15.	V. Ananta Raj	III & EEE	
16.	Anithajagadevan	III & Mech	
17.	S.C. DEVI PRASATH	III - Mech	
18.	T. ARUN PRASATH	III Mech	
19.	B. Karthik Mahadev	III Mech	
20.	A. Karthik	III MECH	
21.	R. Shyam sun day	III MECH	
22.	R. JEE HANVEERARAJAN	III MECH	
23.	K.S. Sankar prasad n	III MECH	
24.	A. Esabkiraja	III CSE	
25.	R. Bharaniharan	III MECH	
26.	S. Mahesh Shree Mohideen	III EEE	
27.	M. VAHYA THARAN	III CSE	
28.	M. JYAPRIYADHARSHINI	III EEE	
29.	K. KAVITHANJALI	III CSE	
30.	B. Bharani	III CSE	
31.	Muthu Ramya R	III EEE	
32.	R. Thulasi	III EEE	
33.	Seemya Souvik KHUNTIA	III MECH	
34.			
35.			

Form No. TP 03

Rev.No. 00

Page 2  
Effective Date: 18.01.



# The Institution of Engineers (India)

(ESTABLISHED 1920, INCORPORATED BY ROYAL CHARTER 1935)

8 GOKHALE ROAD, KOLKATA – 700 020

(Lecture /Paper presentation/Seminar//Workshop/Conference/Technical/Project Demonstration/Model competition/Poster Competition/Group Discussion/Technical Quiz/Aptitude Test/Technical Visit/Film show/Display of Technical Information/Short term course)

**Title /Theme: - Online webinar titled “SPACE ODYSSEY –A JOURNEY FROM SEASHORE TO RED PLANET”**

**Date : 19.06.2021**

**Duration: 1 day (11.00 AM to 12.00 PM)**

**No. of Students and Faculties Participated: 68 participants**

**Photographs with caption:**

*(Activity reports not supported by photographs shall not be considered for award )*

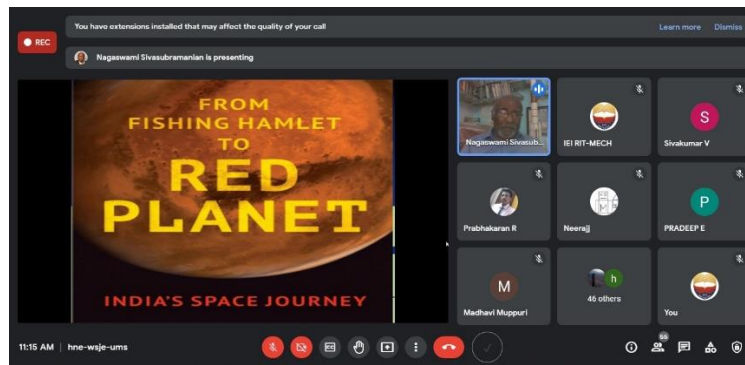


Fig. 1 Introduction

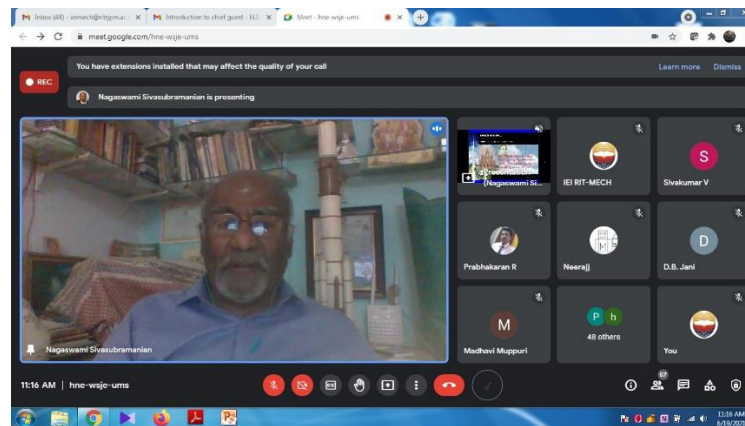


Fig. 2 Speaker

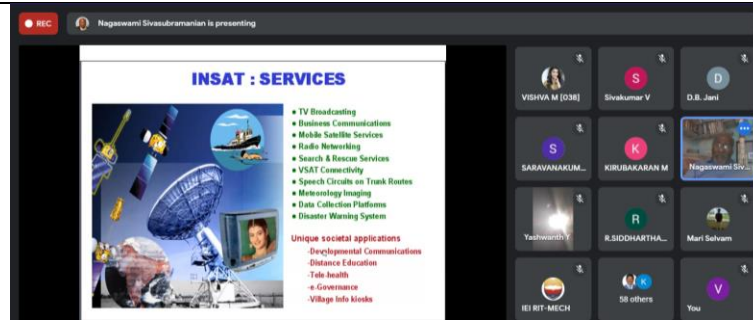
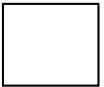
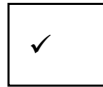


Fig. 3 INSAT :Services

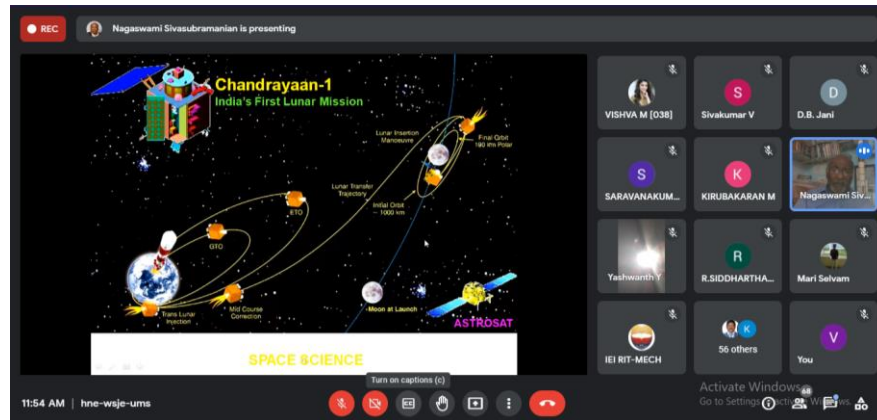


Fig. 4 Chandrayaan -1 in 2008



Fig. 5 Commercialisation of Space products and services

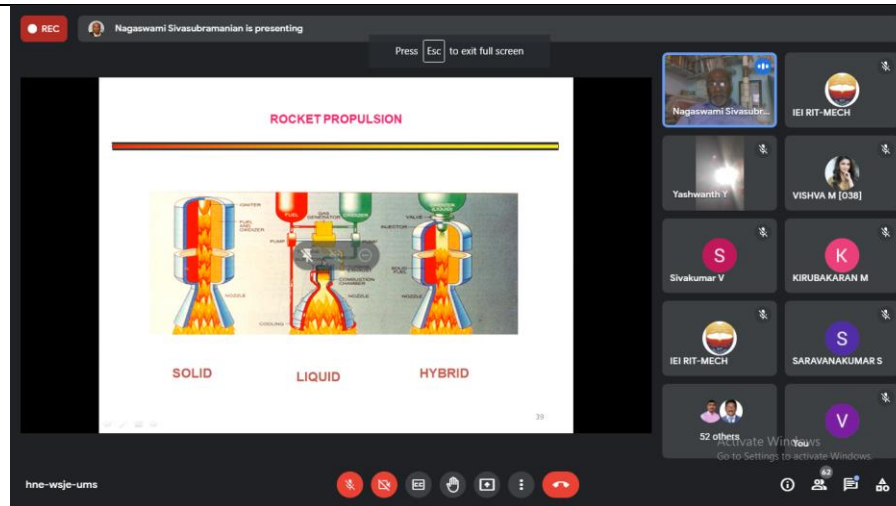


Fig. 6. Rocket Propulsion

**Details:****Chief Guest/ Guest of Honor: Nil****Designation: Nil****Speaker 1: Dr. N. Sivasubramanian****Designation/Organization: Former Senior Scientist, Chief General Manager, ISRO ,Trivandrum****Report***(maximum 250 words)*

Department of Mechanical Engineering organized Extramural lecture series (ELS)- NT001 - Online webinar titled "SPACE ODYSSEY –A JOURNEY FROM SEASHORE TO RED PLANET" on 19.06.2021 for all the faculties and Students in various Engineering Colleges.

Mr.R.Prabhakaran, AP/Mech delivered welcome address and Dr.V.Sivakumar, ASCP/Mech introduced the resource person of this event. He detailed about the schedule of event.

The resource person started with Brief history of Indian space, Indian Space Vision and handled the topics about Chandrayaan 1 in 2008, Lunar orbit, Space shuttle, Commercialization of Space products and services, Rocket propulsion, Vikas Engine, MARS ORBITOR Mission, Thrust chamber Fabrication etc., and advised students and faculties to think out of box concepts and have broad minded . Mr. L. Karthikeyan, AP/Mech acted as a moderator for the whole event and delivered vote of thanks.

Totally, there are 117 registrations are received across all major cities of our state and few are from other states also. Out of which 68 participants attended via Google Meet Platform. All the 68 Participants received their certificate after they completed all procedures.

**YouTube url (19.06.2021): <https://youtu.be/HN2v4jMIH1s>****Sample Certificate**



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## Certificate of Participation

This is to certify that **Er. DEEPAK TIWARI, ET & T** of **SSIPMT, RAIPUR** has actively participated in the Extramural Lecture Series - NT 001 "Space Odyssey - A Journey from Seashore to Red Planet" conducted on **19.06.2021** by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam - 626117.

"We wish you all success in your future endeavors"

LCTEZ8-CE000157

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### Brochure



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NAAC Accredited and ISO 9001:2015 Certified Institution  
Department of Mechanical Engineering  
**EXTRAMURAL LECTURE SERIES(ELS) - NT001**

**SPACE ODYSSEY - A JOURNEY FROM SEASHORE TO RED PLANET**

Registration Link  
<https://tinyurl.com/spaceodysseynt1>

  
<https://meet.google.com/hne-wsje-ums>

  
<https://youtu.be/HN2v4jMH1s>



Date : June 19, 2021  
(Saturday)  
IST: 11.00 A.M to 12 P.M

**Dr.N.Sivasubramanian, BE,MBA, PhD**  
Former Senior Scientist  
Chief General Manager  
Indian Space Research Organization  
Trivandrum.

<b>COORDINATOR</b> Mr.J.Jabinth ASST. PROF./MECH	<b>CONVENER</b> Dr.P.SURESHKUMAR ASSOC. PROF./MECH	<b>PATRON</b> Dr.S.RAJAKARUNAKARAN VICE PRINCIPAL & HEAD /MECH	<b>CHIEF PATRON</b> Dr.L.GANESAN PRINCIPAL
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# RAMCO INSTITUTE OF TECHNOLOGY

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## Automation and Robotics Club

in association with

RIT ISTE Student Chapter, The Institution of Engineers (India), RIT Mechanizo and Institutions  
Innovation Council

Jointly organizes

## Workshop on “Home Automation using IoT” For Polytechnic Students

**Date:** 20.06.2021

**Time:** 10.30 AM to 11.30 AM (IST)

**Convener:**

Dr. S. Godwin Barnabas, ASCP/ Mech

Mr. S. Valai Ganesh, AP/Mech

**Faculty Co-ordinators:**

Mr. T. Selva Sundar, AP/Mech

Mr. K. Vigneshwaran, AP/Mech

**Student Co-ordinators:**

Mr. S. Jehaveerapandian, II Mech

Mr. P. R. Vijay Jeganath, II Mech

**Resource Person:**

Mr. S. Valai Ganesh, AP/Mech

A one-day workshop on “Home Automation using IoT” for Polytechnic students was organized by Automation and Robotics Club in association with RIT ISTE Student Chapter, The Institution of Engineers (India), RIT Mechanizo and Institutions Innovation Council (IIC).

Dr. S. Godwin Barnabas, ASCP/Mech delivered welcome address and introduced the resource person of this event. He detailed about the schedule of event along with outcome of this event. Mr. T. Selva Sundar, AP/Mech detailed about the scope of Robotics in this modern era and also, he expressed about the activities carried out by the Automation club of RIT.

The resource person handled the topics like Basics of IoT, Introduction to Pi, Configuring Pi, Basic setups for beginners, LED Blinking, Sensors like DHT, Ultrasonic, Actuators Interfacing, and Programming.

Also, he explained about Thingspeak module for visualizing the output from our mobile. Mr. K. Vigneshwaran, AP/Mech delivered vote of thanks. Quiz link was posted in the chat box. The toppers of the quiz were announced in Automation and Robotics Club social media pages.

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**Presents**

**WORKSHOP ON**  
**HOME AUTOMATION USING IOT**

**WELCOME YOU ALL**

📅 JUNE 20, 2021      🕒 10.30-11.30 AM IST

Associate Members

RIT ISTE Students Chapter    RIT IE(I)    IIC

follow us

f /arcrit    /arc\_rit    /arc\_rit    /arc\_rit    arc@ritrjpm.ac.in



**Figure 1: Welcome Page**

**IOT**  
**INTERNET OF THINGS**

- Internet Technology connecting devices, machines and tools to the internet by means of wireless technologies
- Over 9 billion 'things' connected to the internet, as of now
- 'Things' connected to the internet are projected to cross 20 billion in near future
- Unification of technologies such as low-power embedded systems, cloud computing, big-data, machine learning and networking

Big Spark Solutions | 2020



**Figure 2: Basics of IoT**

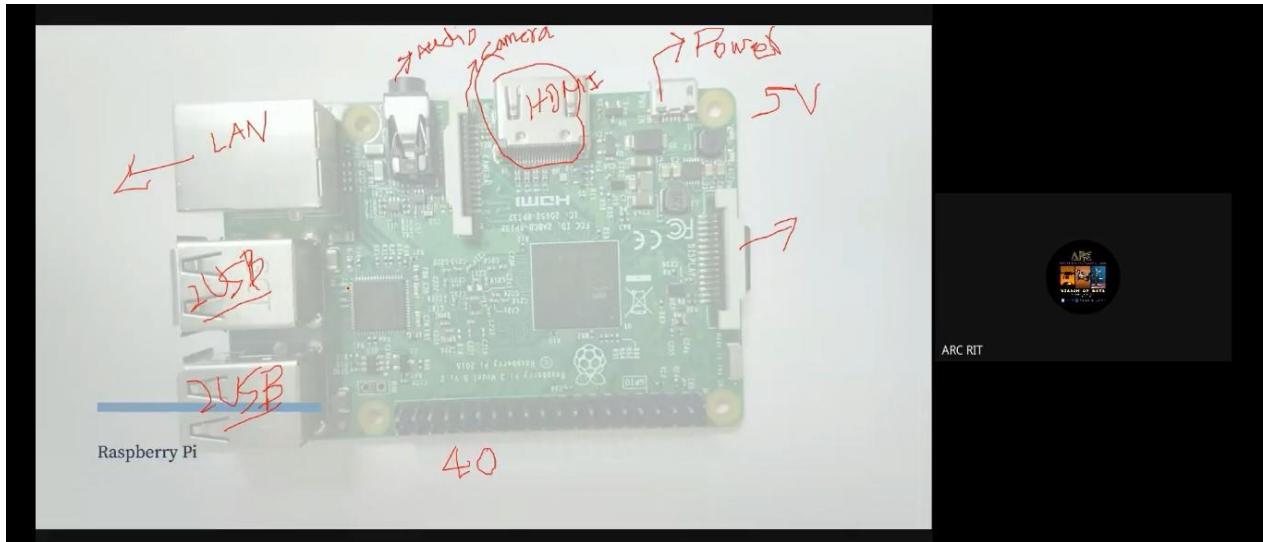
**IOT SHARE**

Rank	Domain	Share (%)
#1	Manufacturing/ Business	40.2 %
#2	Healthcare	30.3 %
#3	Retail	8.3 %
#4	Security	7.7 %

INTEL SOURCE



**Figure 3: IoT Shares in all major domains**



**Figure 4: Raspberry Pi Model B**

### SYSTEM OVERVIEW

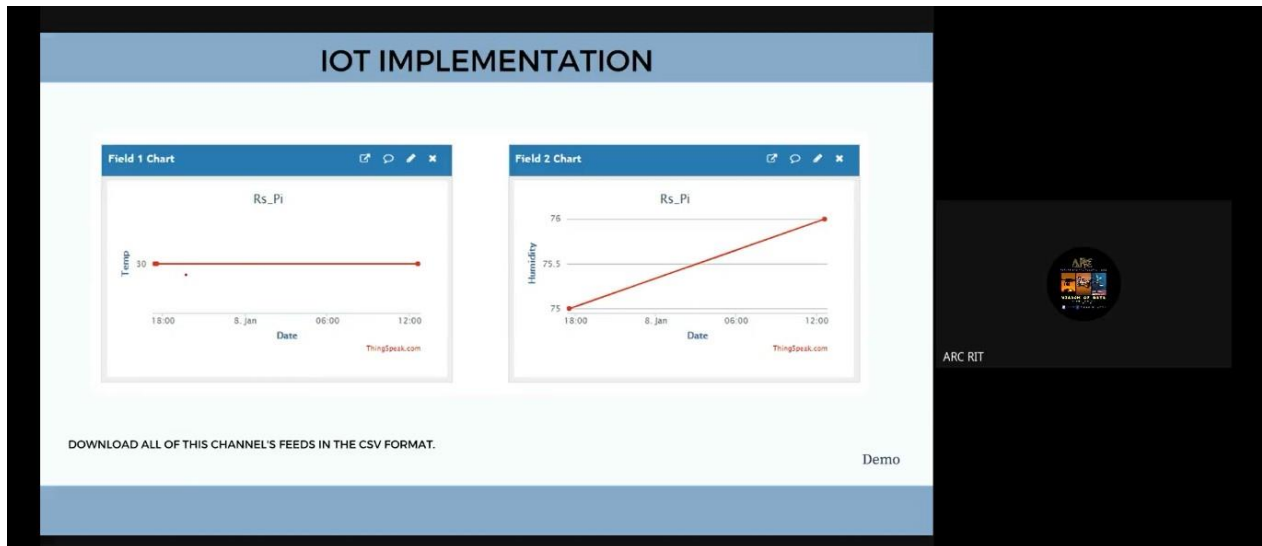
**Requirements**

- DHT Sensor
- Relay
- Jumper wires
- Raspberry Pi
- Mini fan

**Figure 5: Home Automation Basic Components**

### SCREEN SHOTS

**Figure 6: Programming**



**Figure 7: Thingspeak Module**

Totally, there are 76 registrations are received across all major cities of our state and few are from other states also. Out of which 35 participants confirmed and around 32 participants attended daily via Google Meet Platform. 32 Participants received their certificate after they completed all procedures.

After the end of each day session, Quiz was conducted to the participants through google form. The toppers of each day quiz was posted in arc social media pages facebook.com/arcrit and instagram ID arc\_rit

**Certificate Sample:**


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**CERTIFICATE**  
Of Participation  
This Certificate is Proudly Presented to  
**Manish Kumar**


of IV YEAR INSTRUMENTATION AND CONTROL from Government Polytechnic for Women , Jammu has actively participated in the WORKSHOP ON "HOME AUTOMATION USING IoT" Organized by "Automation and Robotics Club" in association with ISTE Student Chapter, Institute of Engineers (India), Institution's Innovation Council and RIT-Mechanizo, Ramco Institute of Technology, Rajapalayam.

Date: 20.06.2021

This is an electronically generated certificate hence does not require signature.




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**AUTOMATION AND ROBOTICS CLUB**  
Presents  
**WORKSHOP ON**  
**HOME AUTOMATION USING IOT**  
**QUIZ TOPPERS**

---

**100%**


**KALIRAJ T**  
**SIVARAM R**  
**R.GANESH KANNAN**  
**NANDHA GANESH.S**  
P. A. C. RAMASAMY RAJA POLYTECHNIC COLLEGE,  
RAJAPALAYAM

**DAMANJOT SINGH**  
GNA UNIVERSITY, PUNJAB

**MANISH KUMAR**  
GOVERNMENT POLYTECHNIC FOR WOMEN, JAMMU

**RAJKUMAR V**  
AYYANADAR JANAKIYAMMAL POLYTECHNIC COLLEGE,  
SIVAKASI

---


**80%**

**SANJAY R A**  
BHAKTHAVATSALAM POLYTECHNIC COLLEGE, KANCHIPURAM

**METHUN SANKAR AV**  
AYYANADAR JANAKIYAMMAL POLYTECHNIC COLLEGE,  
SIVAKASI

**JEEVANANDAM . R**  
PSG POLYTECHNIC COLLEGE, COIMBATORE



---

**60%**


**DHANUSHKARAN J**  
**GOKUL S**  
PSG POLYTECHNIC COLLEGE, COIMBATORE

---


**ASSOCIATE PARTNERS**



RIT ISTE Students Chapter








RIT IE(I)



IIC

INSTITUTION'S INNOVATION COUNCIL  
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# Feedback - HOME AUTOMATION USING IoT on June 20,2021

20 responses

[Publish analytics](#)

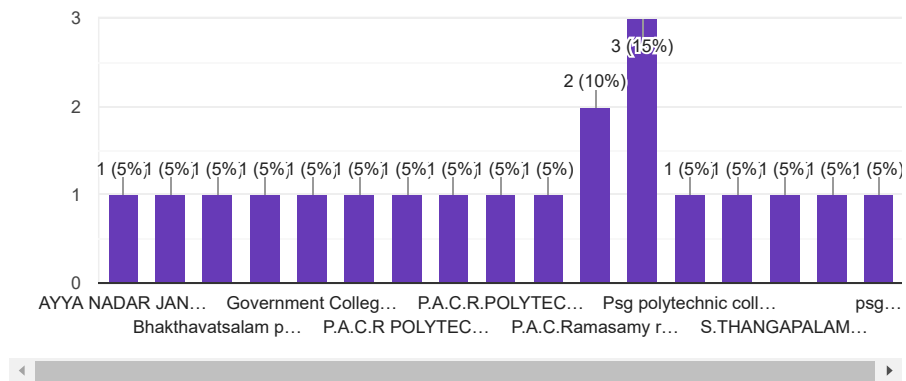
## Name of the participant (Eg. K.RAMESH BABU)

20 responses

- SANJAY R A
- S.NANDHA GANESH
- A ARAVINTHAN
- P.R. VIJAY JAGANATH
- M.MANISH IN
- GOKUL S
- PALANIKUMAR. V
- M.Yuthra Praveen Kumar
- Damanjot Singh

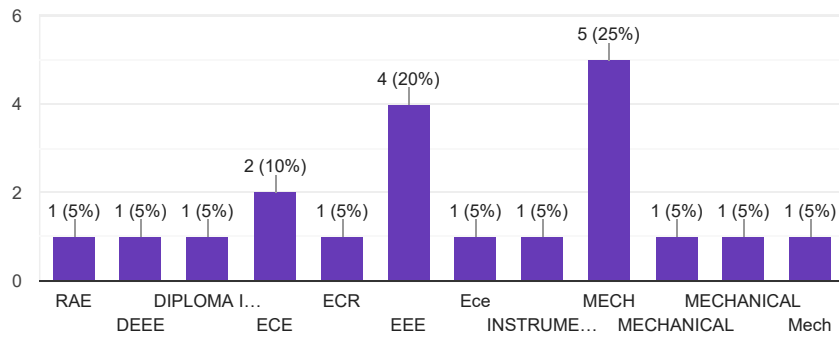
## College Name (Eg.Ramco Institute of Technology)

20 responses



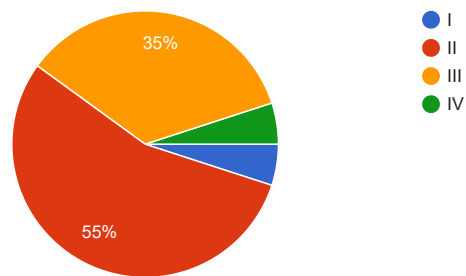
## Department in Upper Case (Eg.CIVIL,CSE, ECE, EEE,MECH)

20 responses



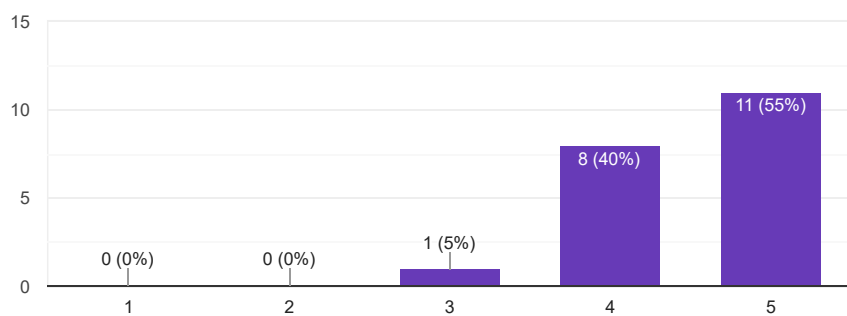
## Year of Study

20 responses



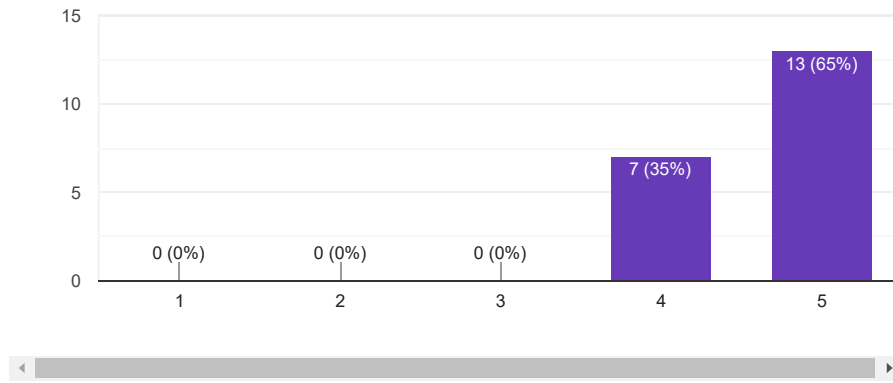
## The webinar Provided me with valuable information regarding the theme

20 responses



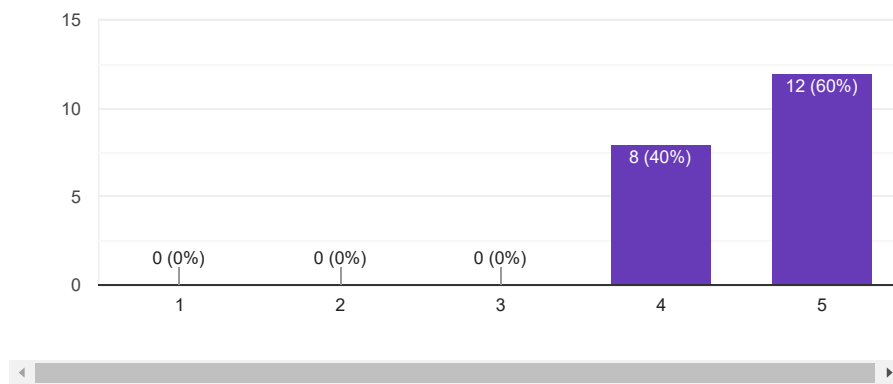
### The content delivered by resource person was useful

20 responses



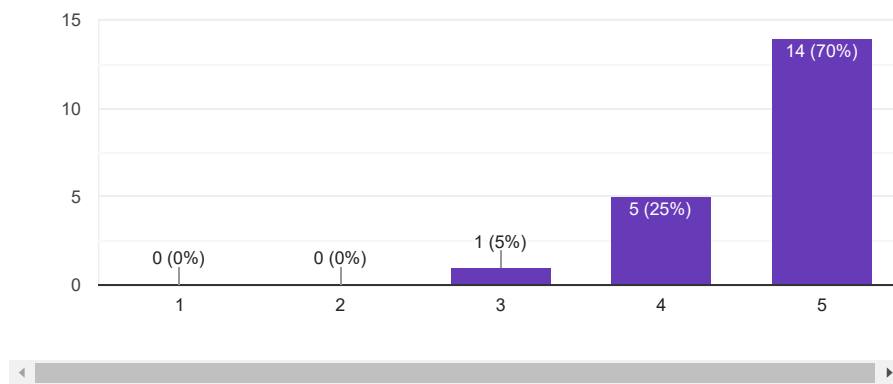
### The technological support was strong enough to execute webinar smoothly

20 responses



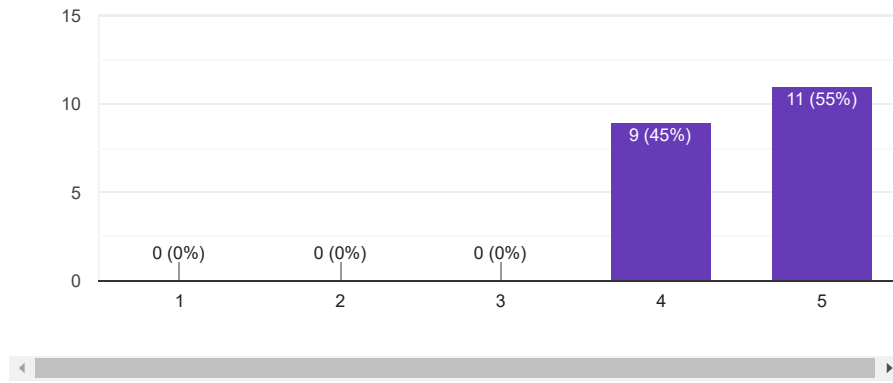
### Rate the duration of webinar

20 responses



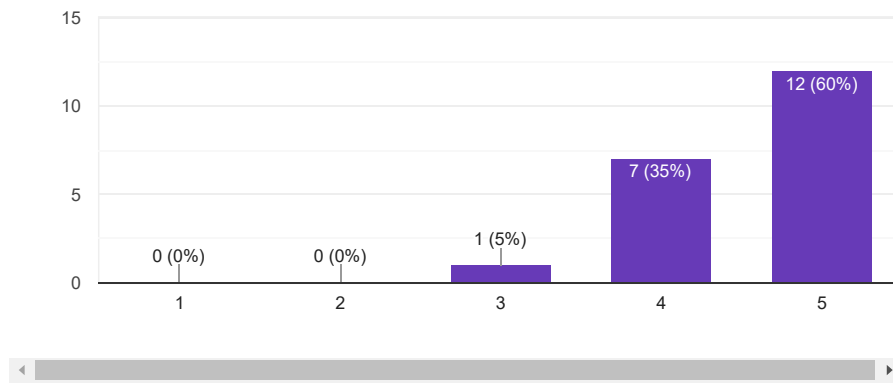
### Interaction / Q&A with the resource person

20 responses



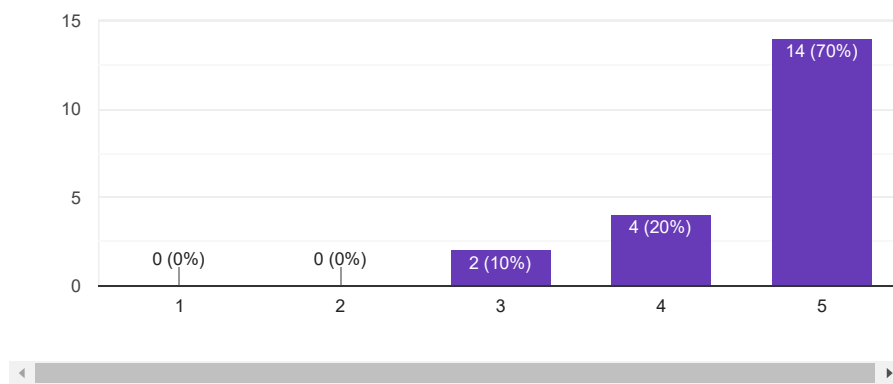
### Webinar Video Quality

20 responses



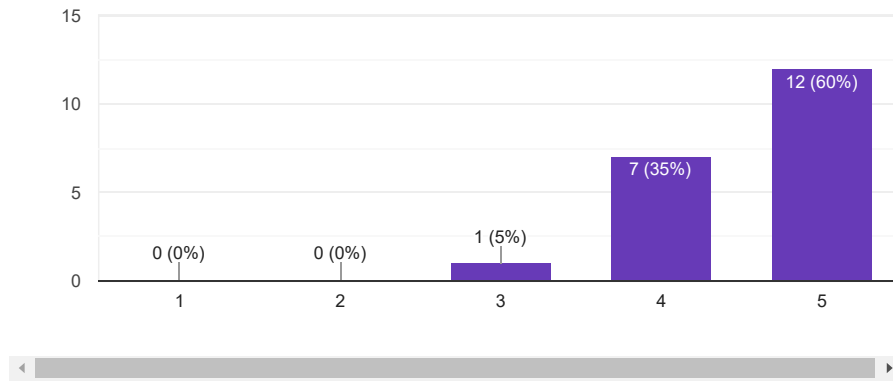
### Continuity in streaming

20 responses



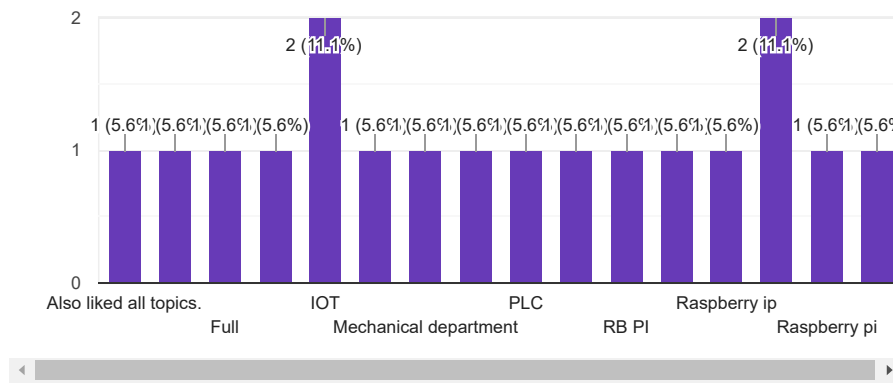
### Rate the timely communication in all aspects of the program

20 responses



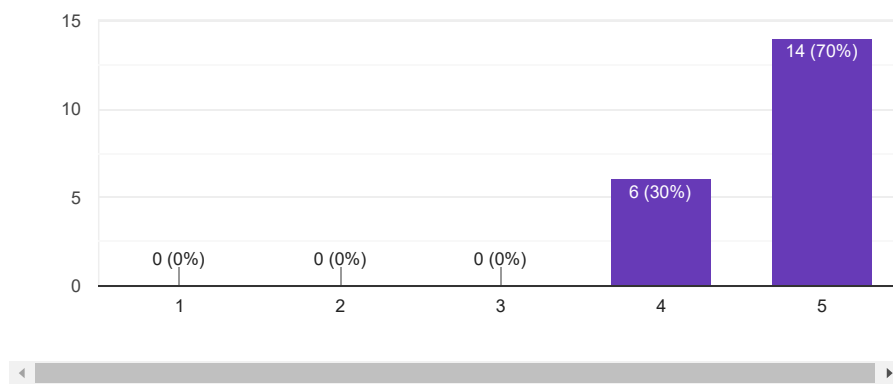
### Any specific topic which you liked very much

18 responses



### Overall feedback of the webinar

20 responses



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Academic Year 2021 – 2022 (Odd Semester)

## Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Using of Gleeble 3800 Simulator to Shape the Structure and Properties of the Various Engineering Materials and Various Techniques
02.	Programme Theme	Research
03.	Programme Type	Webinar
04.	Details of resource person	Dr. Wojciech Borek Assistant Professor Department of Mechanical Engineering Silesian University of Technology Gliwice, Poland
05.	Mode & Venue / Platform	Google Meet & YouTube
06.	Date & Duration	20.07.2021 & 1 hour
07.	No. of Student Participants	38
08.	No. of Faculty Participants	23
09.	No. of External Participants	15
10.	Expenditure amount (if any)	NIL
11.	Social Media URL	<a href="https://youtu.be/VuSG_Zq6iMU">https://youtu.be/VuSG_Zq6iMU</a>
12.	Video URL (if any)	<a href="https://youtu.be/VuSG_Zq6iMU">https://youtu.be/VuSG_Zq6iMU</a>

### 13. Objective of the Programme:

- To impart knowledge on cutting edge technologies (material science) to the participants and to upgrade the expertise of the faculty members in mechanical engineering field.

### 14. Detail description of the activity:

Extramural Lecture Series on the topic "Using of Gleeble 3800 Simulator to Shape the Structure and Properties of the Various Engineering Materials and Various Techniques" was organized by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam on 20.07.2021. The main objective of these ELS is to impart knowledge on research trends in Material Sciences. The Resource Person was Dr.Wojciech Borek, Assistant Professor, Department of Mechanical Engineering, Silesian University of Technology, Gliwice, Poland.

During the session he initially explained the facilities available in Silesian University of Technology at laboratories of Department of Engineering Materials and Biomaterials. Later he specified the facilities available in Gleeble 3800 Simulator. The process simulation capabilities and the material testing applications were explained by the resource person. He explained the complete process with a case example along with photographic results which included simulation result of continuous casting, results of liner thermal expansion using dilatometer, technological plasticity. Further he explained the concept of Powder Metallurgy. Further his knowledge sharing extended to Quasi – HIP, pulsed electric current sintering, spark plasma sintering method (SPS), non- conductive powder processing, etc. At the end, results obtained were presented which gave a much better picture for understating the analysis of various parameters.

The total no. of participants was 76 including internal and external participants. The entire sessions were interactive where faculties raised their doubts and a precise explanation was given by resource person. The overall feedback of program was good. Finally, participants were distributed with e-certificates.

15. Banner / flyer of the programme:



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Department of Mechanical Engineering

EXTRAMURAL LECTURE SERIES(ELS) - INT002

**USING OF GLEEBLE 3800 SIMULATOR TO SHAPE THE STRUCTURE  
AND PROPERTIES OF THE VARIOUS ENGINEERING MATERIALS AND  
VARIOUS TECHNIQUES**



Research Credentials



[https://youtu.be/VuSg\\_Zq6iMU](https://youtu.be/VuSg_Zq6iMU)

**Dr. Wojciech Borek**

Assistant Professor  
Department of Mechanical Engineering  
Silesian University of Technology  
Gliwice, Poland

Date : July 20, 2021  
(Tuesday)  
IST: 01.30 P.M.  
Poland Time: 10.00 A.M.

Registration Link : <https://tinyurl.com/Gleeble3800>

COORDINATOR  
Dr.V.SIVAKUMAR  
ASSOC. PROF./MECH

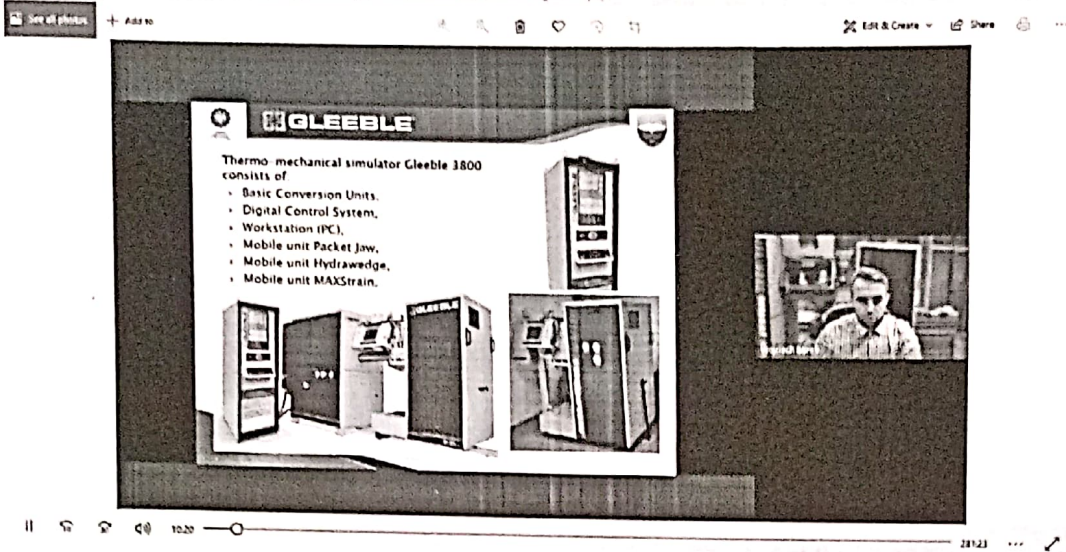
CONVENER  
Dr.P.SURESHKUMAR  
ASSOC. PROF./MECH

PATRON  
Dr.S.RAJAKARUNAKARAN  
VICE PRINCIPAL & HEAD /MECH

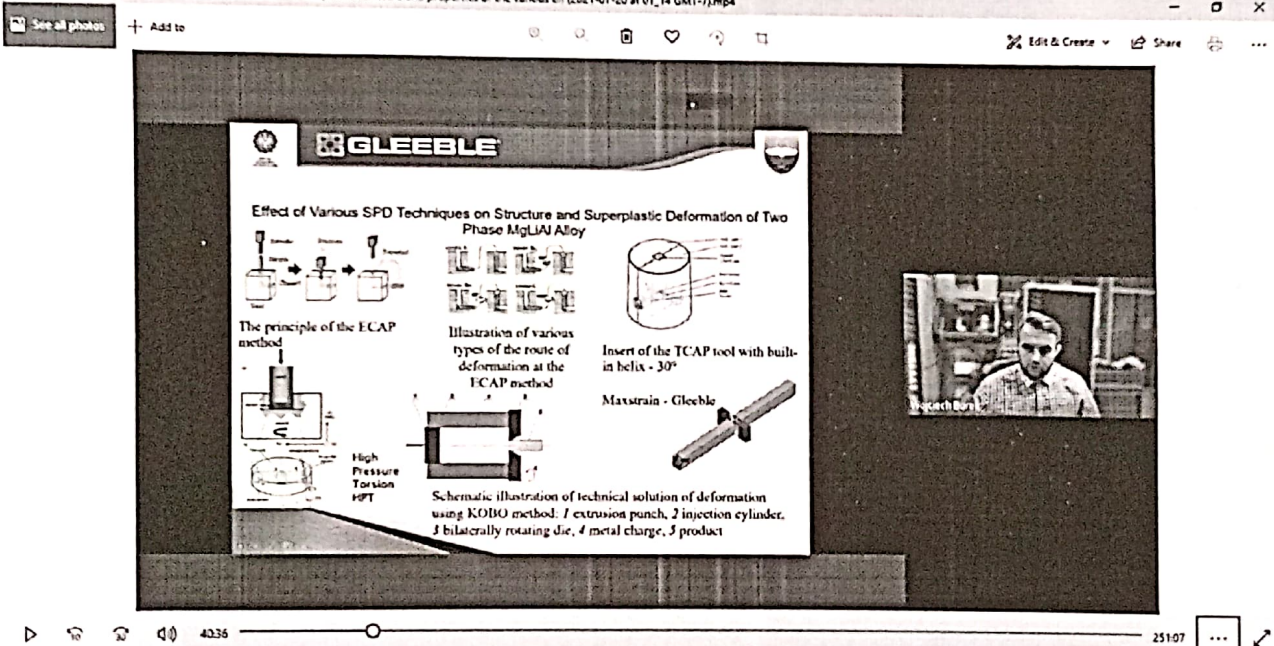
CHIEF PATRON  
Dr.L.GANESAN  
PRINCIPAL

## 16. Programme Photographs: (Two Photographs)

Photos - Webinar on\_Using of Gleeble 3800 simulator to shape the structure and properties of the various en (2021-07-20 at 01\_14 GMT-7).mp4



Photos - Webinar on\_Using of Gleeble 3800 simulator to shape the structure and properties of the various en (2021-07-20 at 01\_14 GMT-7).mp4



*[Handwritten Signature]*  
26/12/21  
**Prepared by**

*[Handwritten Signature]*  
26/12/21  
**Approved by**



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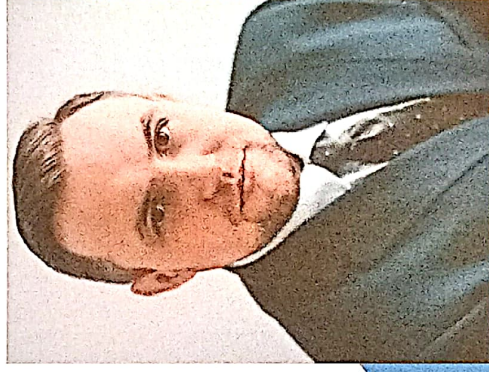
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Department of Mechanical Engineering

**EXTRAMURAL LECTURE SERIES(ELS) - INTO02**

**USING OF GLEEBLE 3800 SIMULATOR TO SHAPE THE STRUCTURE  
AND PROPERTIES OF THE VARIOUS ENGINEERING MATERIALS AND  
VARIOUS TECHNIQUES**

Research Credentials



**Dr. Wojciech Borek**

Assistant Professor  
Department of Mechanical Engineering  
Silesian University of Technology  
Gliwice, Poland



[https://youtu.be/VuSg\\_Zq6IMU](https://youtu.be/VuSg_Zq6IMU)

Date : July 20, 2021  
(Tuesday)

IST: 01.30 P.M.

Poland Time: 10.00 A.M.

Registration Link : <https://tinyurl.com/Gleeble3800>

COORDINATOR  
Dr.V.SIVAKUMAR

CONVENER  
Dr.P.SURESHKUMAR

PATRON  
Dr.S.RAJAKARUNAKARAN

CHIEF PATRON  
Dr.L.GANESAN



# The Institution of Engineers (India)

(ESTABLISHED 1920, INCORPORATED BY ROYAL CHARTER 1935)

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## PROFORMA OF REPORT FROM STUDENTS' CHAPTER

### Details of Technical Activity

(Lecture /Paper presentation/Seminar//Workshop/Conference/Technical Project Demonstration/Model competition/Poster Competition/Group Discussion/Technical Quiz/Aptitude Test/Technical Visit/Film show/Display of Technical Information/Short term course)

**Title /Theme: - Online webinar titled “Advances in Nuclear Engineering & Science”**

**Date : 21.08.2021**

**Duration: 1 day (11.00 AM to 12.00 PM)**

**No. of Students and Faculties Participated: 98 participants**

**Photographs with caption:**

*(Activity reports not supported by photographs shall not be considered for award )*

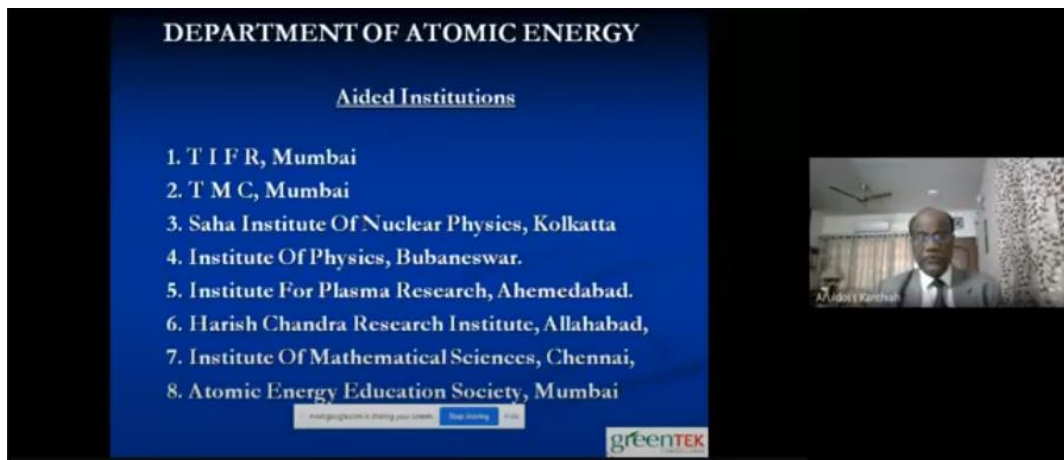


Fig. 1

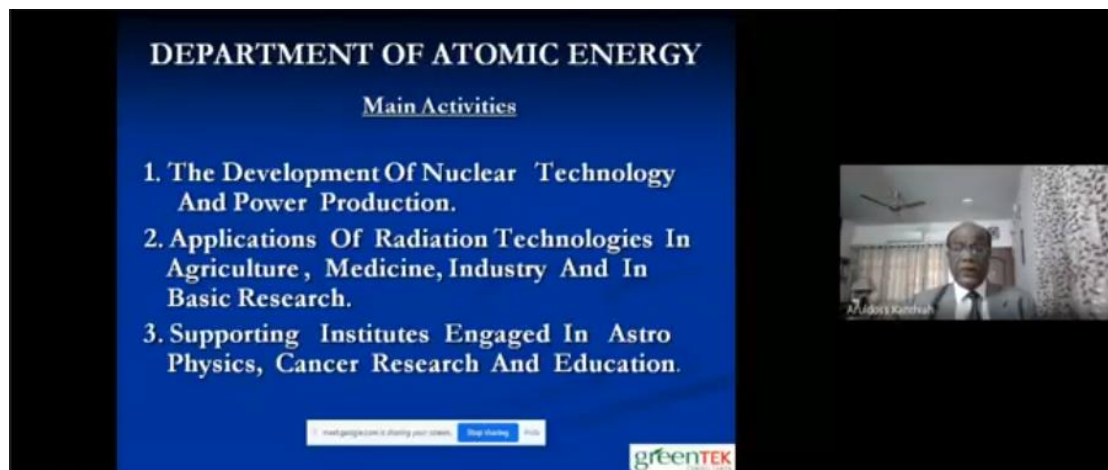


Fig. 2

**Details:**

**Chief Guest/ Guest of Honor: Nil**  
**Designation: Nil**

**Speaker 1: Dr. W.S.Aruldoss Kanthiah**  
**Designation/Organization: Outstanding Scientist & Former Director, Heavy Water Board, Department of Atomic Energy, Govt. of India, Mumbai**

**Report**

*(maximum 250 words)*

Department of Mechanical Engineering organized Extramural lecture series (ELS)- NT002 - Online webinar titled "Advances in Nuclear Engineering and Science" on 21.08.2021 for all the faculties and Students in various Engineering Colleges.

Mr.L.Karthikeyan, AP/Mech delivered welcome address and Mr.J.Jabinth, AP/Mech introduced the resource person of this event. He detailed about the schedule of event.

The resource person started with Brief history of Department of Atomic Energy and the institutions aided under the same. He explained the types of reactors used worldwide. He explained the usage of nuclear science in medical field. He also explained the application of nuclear energy in food processing. He explained the recycling of water using radiation. Other research areas of Heavy water includes polio vaccine preservation, optical fiber to enhance transmission, life of lubricant and polymer with improved mechanical and chemical properties.

Mr. L. Karthikeyan, AP/Mech acted as a moderator for the whole event and Mr.P.Suresh Kumar, ASCP/Mech delivered vote of thanks.

Totally, there are 105 registrations are received across all major cities of our state and few are from other states also. Out of which 98 participants attended via Google Meet Platform. All the 98 Participants received their certificate after they completed all procedures.

**Video Link (21.09.2021):**

<https://drive.google.com/file/d/1hSe8okB18evt4EuidZzDDkIpPDqMzwy3/view?usp=sharing>



**Sample Certificate**



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**Certificate of Participation**

This is to certify that **K RAJENDRA PRABHU, CIVIL ENGINEER** of - has actively participated in the Extramural Lecture Series NT-002 "Advances in Nuclear Engineering and Science" conducted on **21.08.2021** by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam 626117.

**"We wish you all success in your future endeavors"**

EZK750-CE000058  
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 NBA & NAAC Accredited and ISO 9001:2015 Certified Institution  
 Department of Mechanical Engineering  
**EXTRAMURAL LECTURE SERIES(ELS) - NT002**



**ADVANCES IN NUCLEAR ENGINEERING AND SCIENCE**

Registration Link  
<https://tinyurl.com/NuclearPowerEngg>



<https://meet.google.com/hne-wsje-ums>



Date :August 21, 2021  
 (Saturday)  
 IST: 11.00 A.M to 12 noon

**Dr. W. S. Aruldoss Kanthiah**  
 B.E.,M.S. FIIChe, FIE, FIC.

Outstanding Scientist & Former Director,  
 Heavy Water Board, Dept. of Atomic Energy,  
 Govt. of India, Mumbai.

<b>COORDINATOR</b> Mr.J.Jabinth ASST. PROF./MECH	<b>CONVENER</b> Dr.P.SURESHKUMAR ASSOC. PROF./MECH	<b>PATRON</b> Dr.S.RAJAKARUNAKARAN VICE PRINCIPAL & HEAD /MECH	<b>CHIEF PATRON</b> Dr.L.GANESAN PRINCIPAL
--	--	--	--

Signature of the Faculty Advisor

With date affixed with seal



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Academic Year 2021 – 2022 (Odd Semester)

### Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Investigation of Supersonic Flows in Micro/Nanochannels Using the Unstructured Direct Simulation Monte Carlo (USDMC) Method
02.	Programme Theme	Research opportunities
03.	Programme Type	Webinar
04.	Details of resource person	Prof. Wael Al-Kouz Department of Mechanical Engineering American University of the Middle East Kuwait
05.	Mode & Venue / Platform	Google Meet & YouTube
06.	Date & Duration	24.09.2021 & 1 hour 30 minutes
07.	No. of Student Participants	36
08.	No. of Faculty Participants	12
09.	No. of External Participants	14
10.	Expenditure amount (if any)	NIL
11.	Social Media URL	<a href="https://youtu.be/VuSg_Zq6iMU">https://youtu.be/VuSg_Zq6iMU</a>
12.	Video URL (if any)	<a href="https://youtu.be/VuSg_Zq6iMU">https://youtu.be/VuSg_Zq6iMU</a>

### 13. Objective of the Programme:

- To impart knowledge on cutting edge technologies (Unstructured Direct Simulation Monte Carlo Method) to the participants and to upgrade the expertise of the faculty members in mechanical engineering field.

### 14. Detail description of the activity:

Extramural Lecture Series on the topic "**Investigation of Supersonic Flows in Micro/Nanochannels Using the Unstructured Direct Simulation Monte Carlo (USDMC) Method**" was organized by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam on 24.09.2021. The main objective of these ELS is to impart knowledge about National Educational Policy 2020. The Resource Person was Prof. Wael Al-Kouz, Department of Mechanical Engineering, American University of the Middle East, Kuwait.

Prof. Al-Kouz gave a brief introduction about his university and the department facilities he is associated with. He started his presentation with the basic definitions in microflow and DSMC fundamentals. Further, the present trend in the Supersonic Rarefied Flow in Microchannels was narrated using the literature reviews. The statistical fluctuations in DSMC, computational issues at the nano scale were explained by the Professor. U-3DSMC grid generation method was explained with a help of flowchart and validation of U3DSMC was presented with results. Further, the statistical fractional errors associated with U3DSMC, simulations for Supersonic Sub-atmospheric flows into nanochannels were explained with the results obtained through the work done by them.

Finally, the resource person concluded the session with inferences they had obtained from their research analysis and with recommendations for future scope. Towards the end the resource person clarified the doubts raised by the participants.

The total no. of participants presented in the webinar was 62. The entire sessions were interactive where faculties raised their doubts and a precise explanation was given by the resource person. The overall feedback of the program was good. Finally, the participants were distributed with the certificates.

15. Banner / flyer of the programme:



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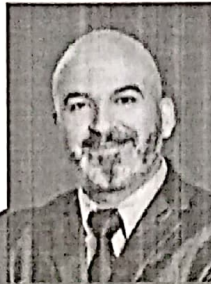
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Department of Mechanical Engineering

EXTRAMURAL LECTURE SERIES(ELS) - INT003

**INVESTIGATION OF SUPERSONIC FLOWS IN  
 MICRO/NANOCHANNELS USING THE UNSTRUCTURED DIRECT  
 SIMULATION MONTE CARLO(USDMC) METHOD**

Research Credentials



**Prof. Wael Al-Kouz**

Professor  
 Department of Mechanical Engineering  
 American University of the Middle East  
 Kuwait

Date :September 24, 2021  
 (Friday)  
 IST: 12.30 P.M.  
 Jordan Time:10.00 A.M.

[https://youtu.be/VuSq\\_Zq6lMU](https://youtu.be/VuSq_Zq6lMU)

Registration Link : <https://tinyurl.com/INT003-Supersonic>

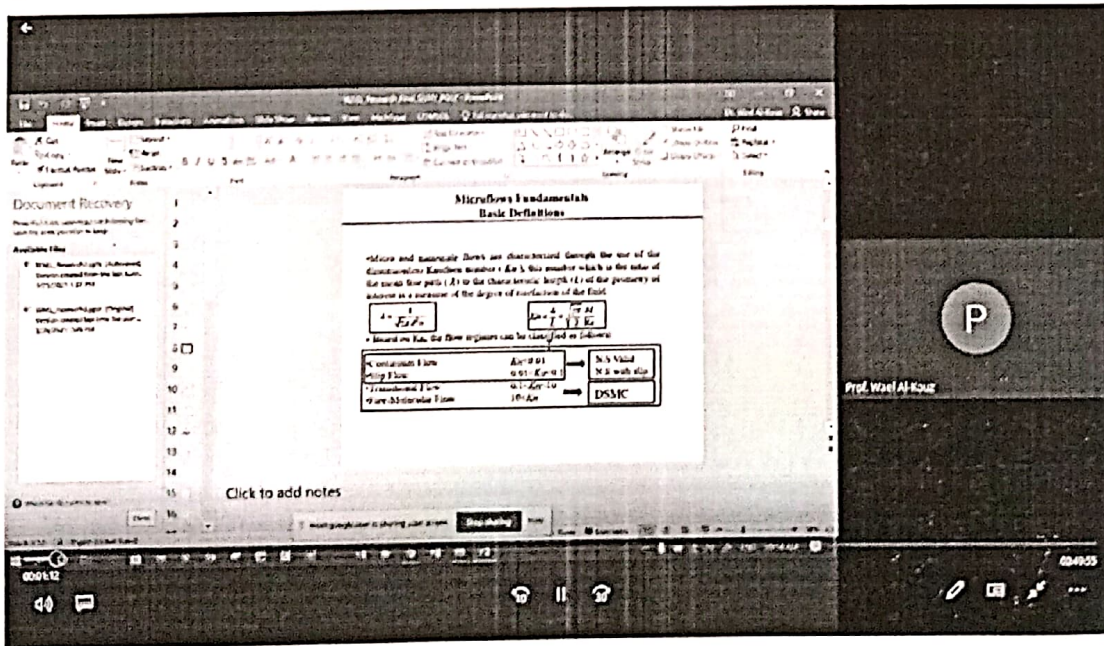
COORDINATOR  
**Dr.V.SIVAKUMAR**  
 ASSOC. PROF./MECH

CONVENER  
**Dr.P.SURESHKUMAR**  
 ASSOC. PROF./MECH

PATRON  
**Dr.S.RAJAKARUNAKARAN**  
 VICE PRINCIPAL & HEAD /MECH

CHIEF PATRON  
**Dr.L.GANESAN**  
 PRINCIPAL

16. Programme Photographs:



Wael Research Final SEMI POLY - PowerPoint

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Microflows and DSMC Fundamentals  
Basic Definitions

- Nanoscale flows are in the transitional to free-molecule regime even at atmospheric pressure
- Nanoscale flows are affected by statistical fluctuations due to small number of particles in sampling volume
- DSMC developed by Bird
  - Models rarefied gas flows with representative simulated particles
  - The major assumption behind the DSMC method is that the molecular motion is unimpeded from the most molecular collisions. That implies that the gas is dilute
  - Also, the method assumes the overturning majority of the relations will be binary

Click to add notes

Prof. Wael Al-Kouz

Statistical Fluctuations in U3DSMC  
Pressure Driven Nanoscale Flow

Simulation Parameters

$H = 100 \text{ nm}$	$P_e = 0.1 \text{ atm}$
$W = 500 \text{ nm}$	$G_D = 8482$
$D = 4 \text{ }\mu\text{m}$	$\langle l_D \rangle = 0.0163 \text{ }\mu\text{m}$
$\lambda = 45.1 \text{ nm}$	
$P_{in} = 1 \text{ atm}$	
$T_{in} = 273 \text{ K}$	
$M = 200 \text{ samples}$	
$\Delta t = 1 \times 10^{-12} \text{ sec}$	
$\langle N_D \rangle = 315$	

DSMC Error and the theoretical DSMC error are almost identical  
Minimum error in the velocity occurs at the center of the channel where the maximum velocity is achieved

Prof. Wael Al-Kouz

*Jain*  
Prepared by: *Jain*  
27/09/21

*V. Suresh Kumar*  
Approved by: *V. Suresh Kumar*  
27/9/21



# RAMCO INSTITUTE OF TECHNOLOGY

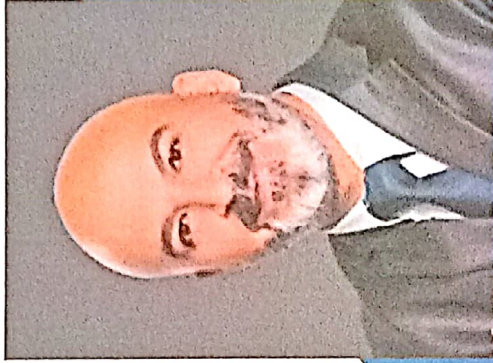
North venganalur Village, Rajapalayam - 626 117

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ISO 9001:2015 Certified Institution

Department of Mechanical Engineering

## EXTRAMURAL LECTURE SERIES(ELS) - INT003

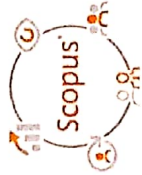
### INVESTIGATION OF SUPERSONIC FLOWS IN MICRO/NANOCHANNELS USING THE UNSTRUCTURED DIRECT SIMULATION MONTE CARLO(USDMC) METHOD



**Prof. Wael Al-Kouz**

Professor  
Department of Mechanical Engineering  
American University of the Middle East  
Kuwait

Research Credentials



[https://youtu.be/VuSg\\_Zq6iMU](https://youtu.be/VuSg_Zq6iMU)

Date :September 24, 2021  
(Friday)

IST: 12.30 P.M.

Jordan Time:10.00 A.M.

Registration Link : <https://tinyurl.com/INT003-Supersonic>

COORDINATOR  
Dr.V.SIVAKUMAR

CONVENIER  
Dr.P.SURESHKUMAR

PATRON  
Dr.S.RAJAKARUNAKARAN

CHIEF PATRON  
Dr.L.GANESAN



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NBA Accredited UG Programs: CSE, EEE, ECE and MECH

## Automation and Robotics Club

in association with

RIT ISTE Student Chapter, The Institution of Engineers (India), Institutions Innovation Council and  
Mechanizo

Jointly organizes

## Webinar on “Building Chatbot Design Level-I”

**Date:** 01 October 2021

**Time:** 03.00 PM to 04.00 PM (IST)

**Venue:** Mechatronics Seminar Hall and Google Meet

### Faculty Co-ordinators:

Mr. B. Kannan, AP(SG)/ECE

Mr. S. Valai Ganesh, AP/Mech

### Student Co-ordinators:

Mr. A. Kumaragurubaran, III ECE

Mr. M. Aravind, III ECE

A Webinar on “**Building Chatbot Design Level-I**” was organized by Automation and Robotics Club in association with RIT ISTE Student Chapter, The Institution of Engineers (India), Institutions Innovation Council (IIC) and Mechanizo on 01 October 2021 at Mechanical Seminar Hall and Google Meet from 03.00 PM to 04.00 PM. Totally 106 Students across all departments registered for this event. 103 students were attended this event. Mr. Abhishek Singh, AP/ECE, Gyan Ganga Institute of Technology and Science, Jabalpur was the resource person for this event. A quiz was conducted at the end of the session. The toppers of the event was posted in arc social media pages facebook.com/arccrit and instagram ID arc\_rit pages

### Brochure Sample:

The brochure is a purple-themed graphic with a central illustration of a white chatbot on a smartphone. Text on the brochure includes: RAMCO INSTITUTE OF TECHNOLOGY (with accreditation details), WEBINAR ON BUILDING CHATBOT DESIGN (LEVEL-I), 01 OCTOBER 2021, 03.00 PM TO 04.00PM, and a REGISTER button. It also lists associate members: RIT ISTE Students Chapter, RIT (EE), and Institutions Innovation Council. Social media handles for Facebook, Instagram, Twitter, YouTube, and Email are provided at the bottom.

# Glimpse(s)

**RAMCO INSTITUTE OF TECHNOLOGY**  
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NBA Accredited UG Programs: CSE, EEE, ECE and Mech  
Presents

**WEBINAR ON**  
**BUILDING CHATBOT DESIGN (LEVEL-I)** **WELCOME YOU ALL**

**OCTOBER 01, 2021** **3.00-4.00 PM IST**

Associate Members

RIT ISTE Students Chapter RIT IE(I) INSTITUTIONS INNOVATION COUNCILS Mechaniz

**What is a Chatbot?**

- A chatbot is an AI-based communication interface to interact with humans in their natural languages.
- They usually converse via auditory or textual methods, and can effortlessly mimic human languages to communicate with human beings in a human-like manner.
- A chatbot is arguably one of the best application of Natural Language Processing.

**Why do we need a Chatbot?**

- Cheap Development cost
- Cost and Time Effective
- Human Resource
- Business Branding

**2. Natural Language Understanding (NLU):** The ability of machines to understand human language like English.

```
graph LR; User((User)) <--> Messenger[Messenger]; Messenger <--> BotInstance[Bot Instance]; BotInstance <--> NLU((NLU)); BotInstance <--> botExpress[bot-express]; BotInstance <--> Skills[Skills]; Skills --> BotInstance; Skills --> Content[Content]; Content --> BotInstance; Content --> Skills; Skills --> Param[Param]; Param --> Action[Action]; Action --> Param;
```

ARC RIT

ARC RIT

ARC RIT

```

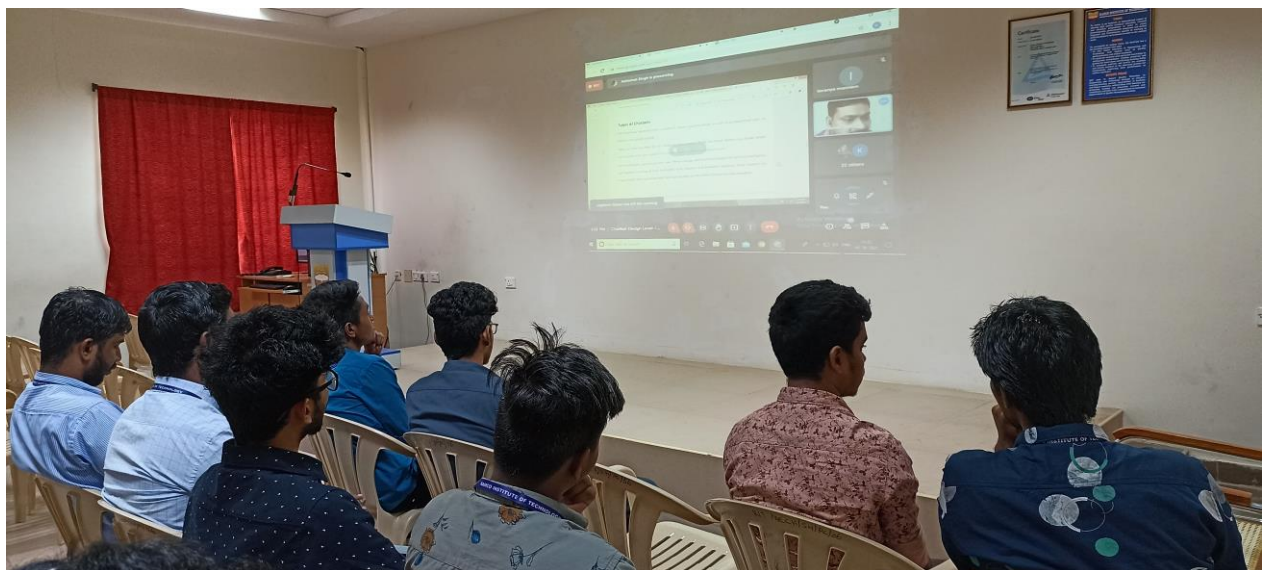
In [ ]: print("BOT: What do you want me to call you?")
        user_name = input()

In [ ]: bot_template = "BOT : {0}"
        user_template = user_name + " : {0}"

In [ ]: name = "Jarvis"
        weather = "rainy"
        mood = "Happy"
        greet = 'Hi'

        responses = {
            "Hello {0}".format(name): [
                "Hi", "Hello"

```



**Certificate Sample:**



# Feedback Building Chatbot Design (Level-1)

107 responses

[Publish analytics](#)

## Name of the Participant

107 responses

CHANDRU. S

N.MANIPRASANTH

ARUN C

K . KABILESH

HARIKRISHNAN S

Kaven B C

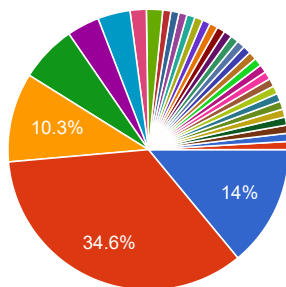
C.yamuna

Abinaya

Jeeva.A

## Name of the Institute

107 responses



- Ramco Institute of Technology
- Kongunadu college of engine...
- Kongunadu College of Engine...
- KONGUNADU COLLEGE OF...
- Kongunadu college of engine...
- Kongunadu College of engine...
- Kongunadu College Of Engin...
- Kongunaadu college of engin...

▲ 1/5 ▼



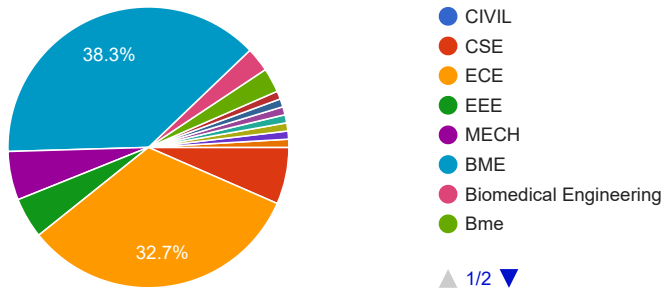
### Register Number

107 responses

- 621320121012
- 
- 621320121028
- 621320121022
- 621320121030
- 621320121017
- 621320121063
- 621320121050
- 621320121001

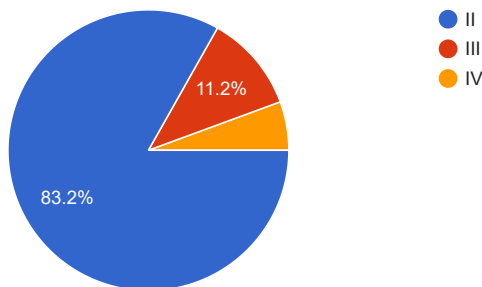
### Department

107 responses



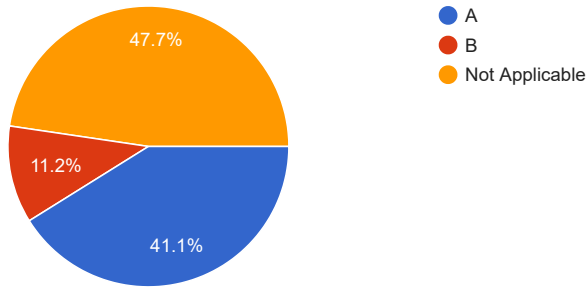
### Year

107 responses



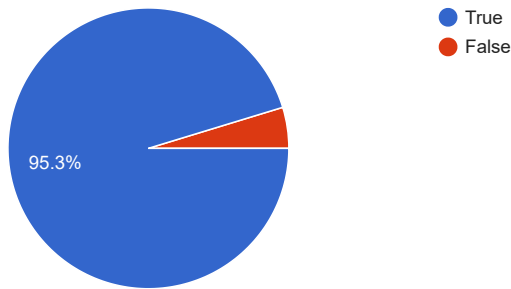
Section

107 responses



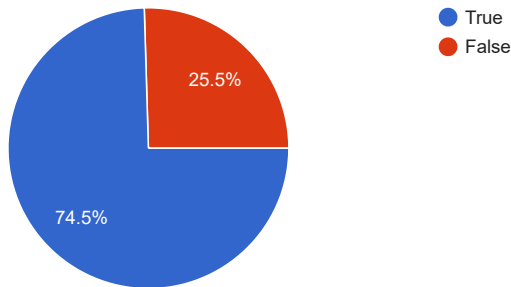
A chatbot will typically interact with the user via text or audio

106 responses



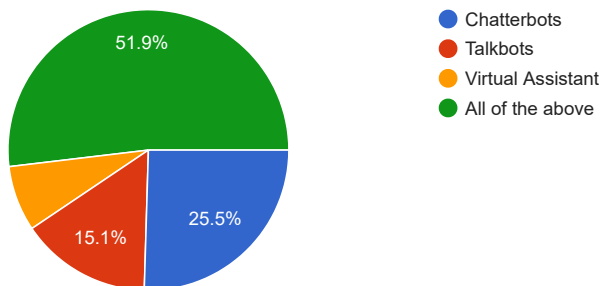
Chatbots are only beneficial to large companies

106 responses



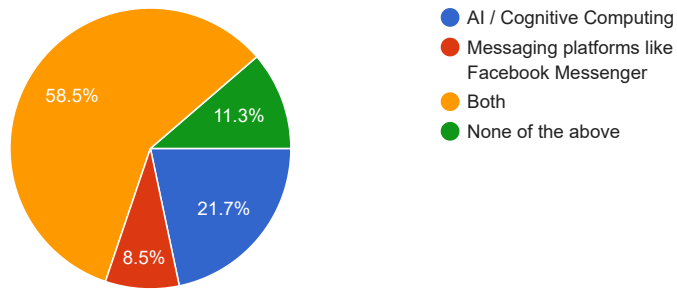
Chatbots are also known as:

106 responses



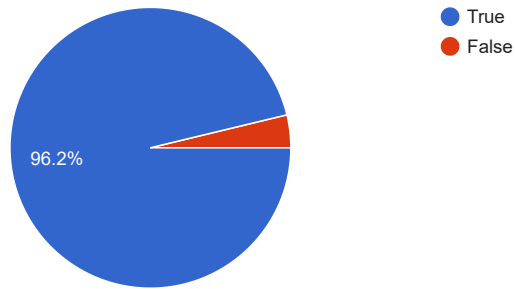
What factors directly contributed to the emergence of chatbots?

106 responses



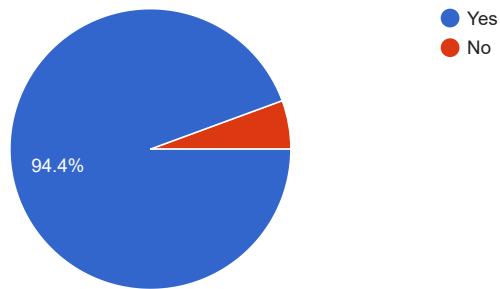
The Python interpreter takes the code that you write and converts it to the language that the computer's hardware understands.

106 responses



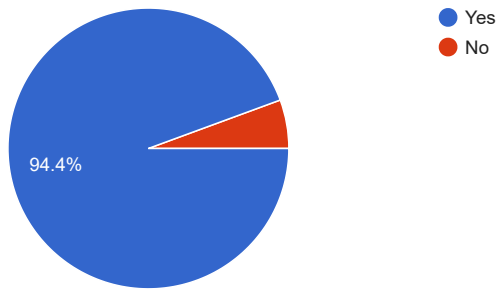
Overall, were you satisfied with the venue/platform and were you able to watch comfortably?

107 responses



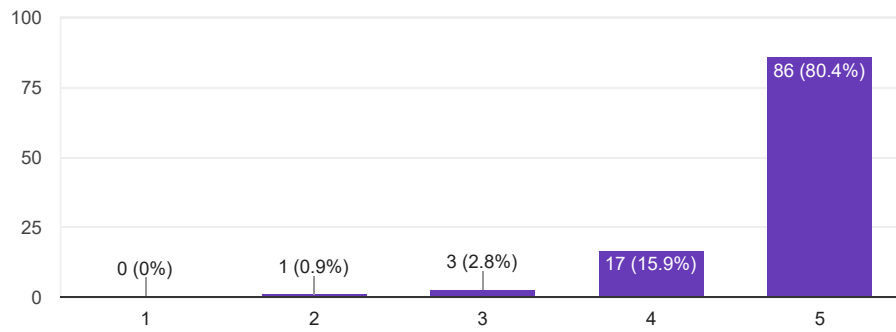
### Would you recommend a similar event to a friend?

107 responses



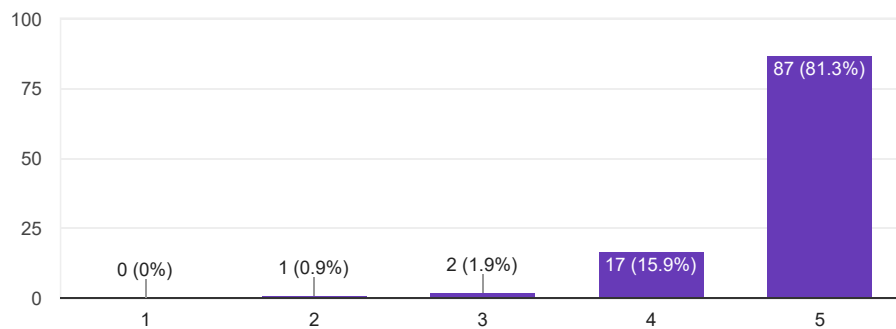
### Event Arrangements

107 responses



### Overall rating of the event

107 responses



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## Automation and Robotics Club

in association with

RIT ISTE Student Chapter, The Institution of Engineers (India) and Institutions Innovation Council

## Workshop-cum-competition on “Robo Seguidor”

**Date:** 20-21 October 2021

**Time:** 03.00 PM to 05.00 PM (IST)

**Venue:** Mechatronics Laboratory

### Faculty Coordinators:

Dr. M. Gomathy Nayagam, ASCP/CSE

Mr. S. Valai Ganesh, AP/Mech

### Student Coordinators:

Mr. S. Aravind, III EEE

Mr. M. Kesavanand, III ECE

A Workshop-cum-competition on “Robo Seguidor” was organized by Automation and Robotics Club in association with RIT ISTE Student Chapter, The Institution of Engineers (India) and Institutions Innovation Council (IIC) during 20-21 October 2021 at Mechatronics Laboratory from 03.00 PM to 05.00 PM. Totally 19 Students across all departments registered for this event. 12 students were attended this event. Mr. S. Meenakshi Sundaravel, AP(SG)/EEE and Mr. R. Dinesh, III Mech was the resource person for this event.

### Brochure Sample:

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**PRESENTS**

**WORKSHOP-CUM-COMPETITION ON  
ROBO SEGUIDOR**

20 TO 21 OCT 2021  
3.00 PM TO 5.00 PM

**AIRC** AUTOMATION AND ROBOTICS CLUB

Associate Members

**REGISTER**

RIT ISTE Students Chapter  
RIT (E)  
INSTITUTION'S INNOVATION COUNCIL

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## Glimpse(s)



**Certificate Sample:**



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Automation and Robotics Club

**CERTIFICATE OF PARTICIPATION**

**This Certificate is Presented to**  
**S. MONICA**  
from  
**II Year, Department of ECE, Ramco Institute of Technology**  
participated in **Workshop-cum-Competition on Robo Seguidor**  
event organised by Automation and Robotics Club of RIT in  
association with RIT ISTE, RIT IE(I), IIC during 20-21 October 2021

Associate Partners



This is an electronically generated certificate hence does not require signature

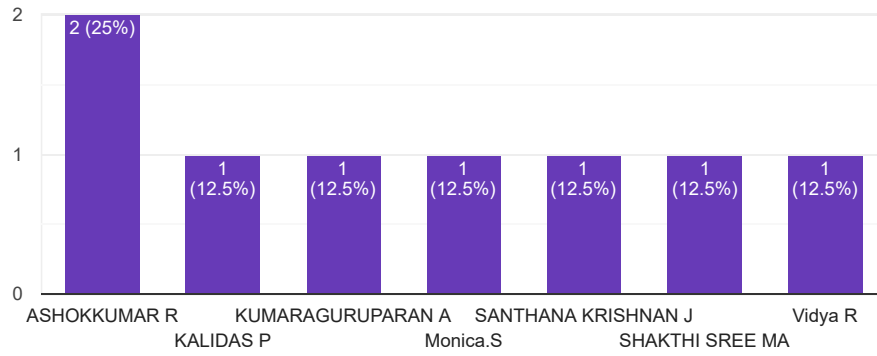
# Feedback Robo Seguidor

8 responses

[Publish analytics](#)

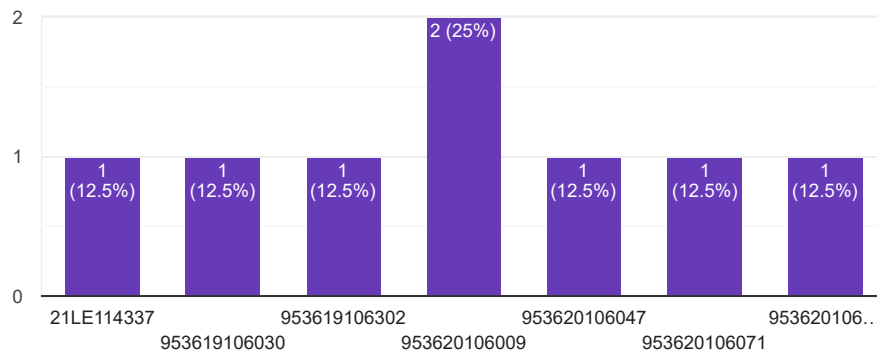
## Name of the Participant

8 responses



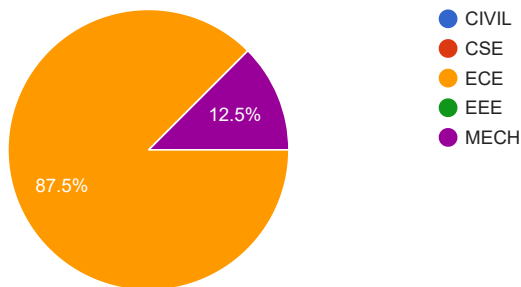
## Register Number

8 responses



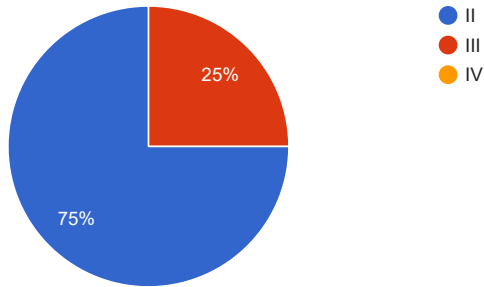
## Department

8 responses



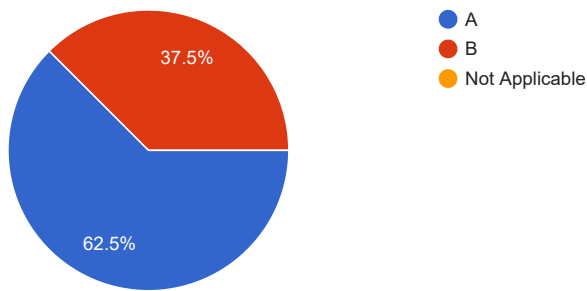
### Year

8 responses



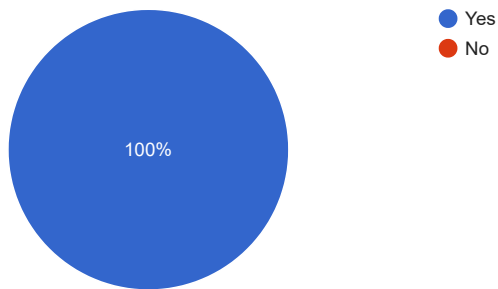
### Section

8 responses



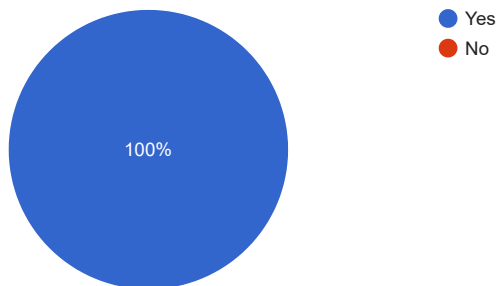
Overall, were you satisfied with the venue and were you able to work comfortably?

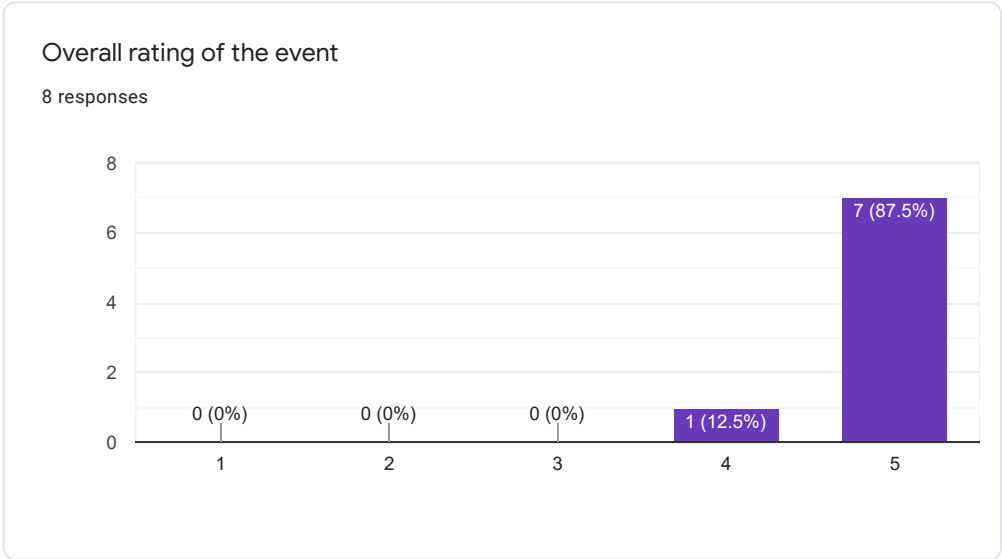
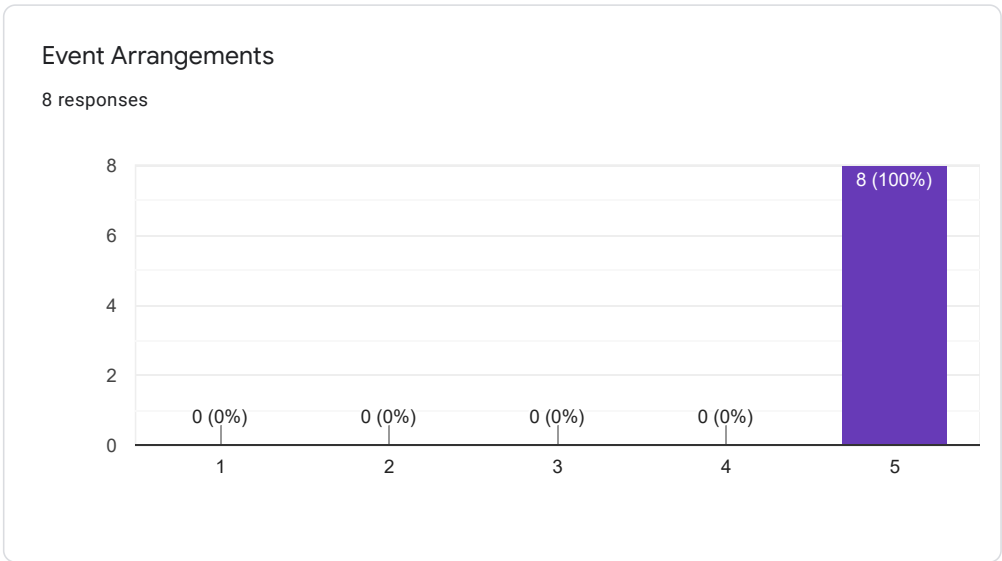
8 responses



Would you recommend a similar event to a friend?

8 responses





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# LATEST ADVANCES AND FUTURE PROSPECTS OF WELDING TECHNOLOGY

Department of Mechanical Engineering organized Extramural lecture series (ELS)- NT003 - Online webinar titled **Latest Advances and Future Prospects of Welding Technology** on 27.10.2021 for all the faculties and Students from various Engineering Colleges. Mr.L.Karthikeyan, AP/Mech delivered welcome address. **Mr.N.Rajasekaran, Former DGM, BHEL, Trichy** acted as resource person for the program. The resource person started with the various activities carried out by Indian Welding Society (IWS). He explained the various types of advanced welding methods available in market. The enhancement of production efficiency can be achieved using latest welding techniques. A small intro about various welding methods like friction welding, Friction stir welding, electro gas welding, butt welding, electron beam welding, variable polarity plasma arc welding etc is given. The parameters which affect the welding zone is explained. The challenges faced in fusion welding are explained clearly by the resource person. Mr. L. Karthikeyan, AP/Mech acted as a moderator for the whole event and Dr. J. Jabinth, AP/Mech delivered vote of thanks. Totally, there are 154 registrations are received across all major cities of our state and few are from other states also. Out of which 107 participants attended via Google Meet Platform.



## Basic Of Canva / Poster Design And Certificate Generation

On behalf of RIT, Department of Mechanical Engineering organized Lecture titled **Basic of Canva / Poster Design and Certificate Generation** on 11.11.2021 for all the IE(I) Students in our College. **Mr. M. Thojesh Nandha, IV Mechanical** acted as resource person for the program. Dr.J.Jabinth, AP/Mechanical, Ramco Institute of Technology coordinated in this program. Students were given a hands-on session in the poster creation using the Canva platform and also about the basic tools used in Canva. They have also taught about the certificate creation and how to generate the certificate automatically using the google form. Totally, there are 17 students registered IE(I) Students in our College. Out of which 17 participants attended. All the 17 Participants received their certificate after they completed all procedures.



## DRONE DESIGN AND AVIATION

On behalf of RIT, Department of Mechanical Engineering organized a workshop on the "**Unmanned Aerial Vehicle, Mechanism of Quad rotor, how to operate a Drone on the Drone Deploy Forum**" on 19 Nov. 2021, for IEI members and students from Department of Mechanical engineering. Nearly 25 students acquired knowledge about UAVS, RPAVS, How to aviate DJI Mavic Air Pro-2. **Mr.S.Sridharan, IV Mech** acted as resource person for this program. This event was organized by Mechanical RIT in association with IE(I)-Student Chapter Mechanical. Dr.J.Jabinth, AP/Mechanical, Ramco Institute of Technology coordinated the program. Totally, 25 students registered for the workshop. Out of which 25 student participants attended the session. Students clarified there queries with the resource person at the end of the session. Soft copy of participation Certificates have been sent their mail id.





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Academic Year 2021 – 2022 (Odd Semester)

### Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Maintenance 4.0 in Wind Energy Industry
02.	Programme Theme	Research Opportunities
03.	Programme Type	Webinar
04.	Details of resource person	Prof. Fausto Pedro Garcia Marquez Castilla-La Mancha University Spain
05.	Mode & Venue / Platform	Google Meet & YouTube
06.	Date & Duration	26.11.2021 & 1 hour
07.	No. of Student Participants	31
08.	No. of Faculty Participants	14
09.	No. of External Participants	26
10.	Expenditure amount (if any)	NIL
11.	Social Media URL	<a href="https://www.youtube.com/watch?v=pi0FjdSm4rQ">https://www.youtube.com/watch?v=pi0FjdSm4rQ</a>
12.	Video URL (if any)	<a href="https://www.youtube.com/watch?v=pi0FjdSm4rQ">https://www.youtube.com/watch?v=pi0FjdSm4rQ</a>

### **13. Objective of the Programme:**

- To impart knowledge on cutting edge technologies (Wind Energy System Maintenance 4.0) to the participants and to upgrade the expertise of the faculty members in mechanical engineering field.

### **14. Detail description of the activity:**

Extramural Lecture Series on the topic " Maintenance 4.0 in Wind Energy Industry " was organized by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam on 06.05.2021. The main objective of these ELS is to impart knowledge about Wind Energy System and the maintenance involved in the same. The Resource Person was Prof. Fausto Pedro Garcia Marquez, Castilla-La Mancha University, Spain.

The pattern of Wind energy and the statistical data on wind energy potential was briefed by the professor. Then he compared the Operation and Maintenance cost in Off-shore and on-shore wind turbines with a statistical data from European Wind Energy Association (EWEA). The modern approach in maintenance of wind energy system i.e. 4.0 was explained by the resource person. Novel Integrated Condition Monitoring (NIMO) technology in for wind turbine maintenance was explained with a neat flowchart. The use of Supervisory Control and Data Acquisition (SCADA) in wind turbine system was briefed along with Condition Based Maintenance and Computerized Management System. The four major aspects of maintenance 4.0 was explained (i.e. safety, availability, reliability and maintainability). Further the values that are obtained from SCADA for every 10 minutes was listed. The obtained data were categorized as quantitative and qualitative. Finally, the session was concluded by the resource person with a case study taken for onshore maintenance. At the end of the session, resource person addressed the queries raised by the participants.

The total no. of participants was 71 including internal and external participants. The entire sessions were interactive where faculties raised their doubts and a precise explanation was given by the resource person. The overall feedback of the program was good. Finally, the participants were distributed with the certificates.

15. Banner / flyer of the programme:



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Department of Mechanical Engineering

**EXTRAMURAL LECTURE SERIES(ELS) - INT004  
 MAINTENANCE 4.0 IN WIND ENERGY INDUSTRY**

Academic & Research  
 Credentials



Date :November 26, 2021  
 (Friday)  
 IST: 03.30 P.M.  
 Spain Time:11.00 A.M.

**Fausto Pedro García Márquez**

Full Professor  
 Castilla-La Mancha University  
 Spain

Registration Link : <https://tinyurl.com/INT004-Wind-Energy>

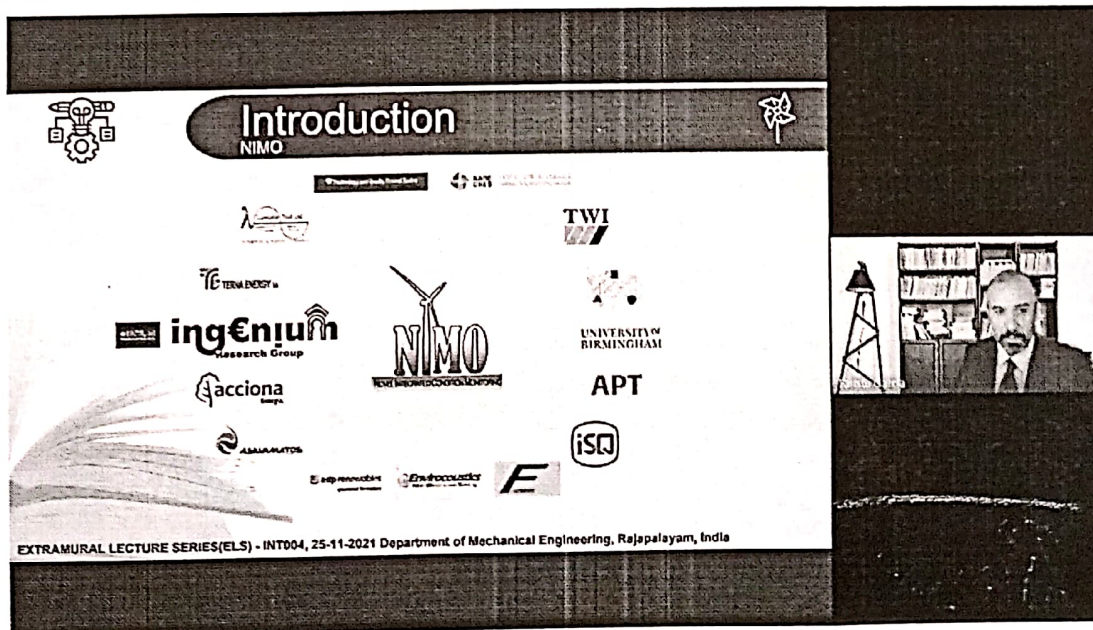
COORDINATOR  
 Dr.V.SIVAKUMAR  
 ASSOC. PROF./MECH

CONVENER  
 Dr.P.SURESHKUMAR  
 ASSOC. PROF./MECH

PATRON  
 Dr.S.RAJAKARUNAKARAN  
 VICE PRINCIPAL & HEAD /MECH

CHIEF PATRON  
 Dr.L.GANESAN  
 PRINCIPAL

16. Programme Photographs:



### Case Study: Onshore Confidential Project

**LCC Analysis for CMS in Onshore WTs**

Hours lost per failure for each of the different components for the different types of wind turbines.

NPV for different cost rates of spare and for different years of operation using LCCAR in Vortex WTs

NPV with the introduction of a unit for a daily investment for different cost rates of return using CMS in Onshore WTs

NPV for different values of the ratio of the reduction of failures resulting by CMS

NPV for different values of the ratio of the stability value

Component	Failure Rate	Hours Lost	Cost
Generator	0.0001	1000	100000
Power Electronics	0.0002	2000	200000
Gearbox	0.0005	5000	500000
Drivetrain	0.001	10000	1000000
Yaw Drive	0.0001	1000	100000
Pitch Drive	0.0001	1000	100000
Control System	0.0001	1000	100000
Other	0.0001	1000	100000



## Maintenance 4.0

SCADA and CMS

1910 alarms

Alarms from SCADA

Alarms descending order

01/10/201 2

01/01/201 3

01/04/201 4

31/01/201 5

01/03/201 5

15/05/201 5

27/05/201 5

01/08/201 5

01/01/201 6

Drive Train CM module

Inverter CM Module

Data from SCADA

EXTRAMURAL LECTURE SERIES(ELS) - INT004, 25-11-2021 Department of Mechanical Engineering, Rajapalayam, India



Prepared by  
  
 29/11/21

Approved by  
  
 29/11/21



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Department of Mechanical Engineering

## EXTRAMURAL LECTURE SERIES(ELS) - INT004 MAINTENANCE 4.0 IN WIND ENERGY INDUSTRY

Academic & Research  
Credentials



**Fausto Pedro Garcia Márquez**

Full Professor  
Castilla-La Mancha University  
Spain

Date : November 26, 2021  
(Friday)

IST: 03.30 P.M.

Spain Time:11.00 A.M.

Registration Link : <https://tinyurl.com/INT004-Wind-Energy>.

COORDINATOR  
Dr.V.SIVAKUMAR

CONVENER  
Dr.P.SURESHKUMAR

PATRON  
Dr.S.RAJAKARUNAKARAN

CHIEF PATRON  
Dr.L.GANESAN

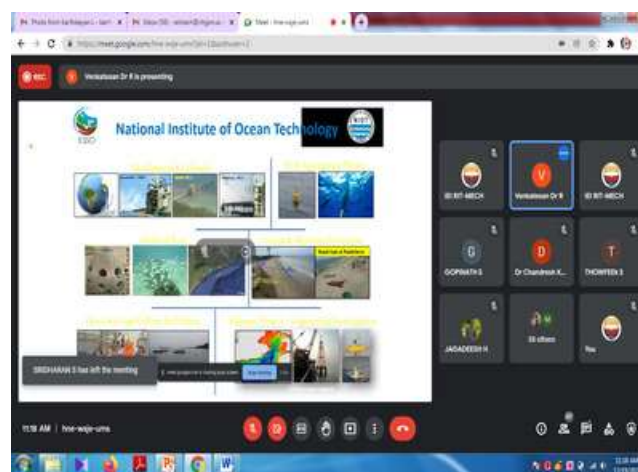
## SCOPE OF UNMANNED AERIAL VEHICLES IN DEFENSE SECTOR

On behalf of RIT, Department of Mechanical Engineering organized a workshop titled **Scope of Unmanned Aerial Vehicles in Defense Sector** on 04.12.2022 for all the IE(I) Students in our College. Dr.J.Jabinth, AP/Mechanical, Ramco Institute of Technology coordinated the program. In this Lecture **Mr.S.Santhosh, IV Mech** presented about the categories of drones available and how they are used in defense application. He also explained the future of this domain in future warfare. He also told how as a mechanical engineer can enter into the domain and what are the skillsets needed to excel in This domain. Students also clarified their doubts with the resource person at the end of the session. Totally, there are 25 students registered from IE(I) Mechanical Students chapter from our College. Out of which 23 participants attended. All the 23 Participants received their certificate.



# RESEARCH ASPECTS AND ROLE OF ENGINEERS IN OCEAN DATA COLLECTION

Department of Mechanical Engineering organized Extramural lecture series (ELS)- NT004 - Online webinar titled **Research Aspects and Role of Engineers in Ocean Data Collection** on 19.12.2021 for all the faculties and Students in various Engineering Colleges. Mr.L.Karthikeyan, AP/Mech delivered welcome address and Dr.J.Jabinth, AP/Mech introduced the resource person of this event. He detailed about the schedule of event. **Dr.R.Venkatesan, Scientist G & Head Ocean Observation, NIOT, chennai** acted as resource person for the program. The resource person explained about the development of technologies for deep sea mining and under water vehicles. He explained the different works carried out by NIOT in underwater vehicles. He also explained about the projects related to extraction of energy from ocean. The ships used to do research along the coast. He showed the film of David Attenborough hydrothermal vent, the sources of ocean observation like satellites using microwaves, sub surface monitoring instruments. He also discussed about the transmission of data to the surface of ocean by induction principle and then to the satellite. He also discussed about the various marine meteorological sensors used, design of mooring system. At the end of the webinar, Mr. L. Karthikeyan, AP/Mech acted as a moderator for the whole event and Dr.V.Sivakumar, AP/Mech delivered vote of thanks. Totally, there are 91 registrations are received across all major cities of our state and few are from other states also. Out of which 52 participants attended via Google Meet Platform. All the 52 Participants received their certificate after they completed all procedures.





# RAMCO INSTITUTE OF TECHNOLOGY

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NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Academic Year 2021 – 2022 (Odd Semester)

## Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Industry 4.0: Digital Transformation in Manufacturing Industry
02.	Programme Theme	Research opportunities
03.	Programme Type	Webinar
04.	Details of resource person	Prof. Yusri Yusof Principal Researcher Advanced Manufacturing and Materials Centre (AMMC) Universiti Tun Hussein Onn Malaysia Malaysia
05.	Mode & Venue / Platform	Google Meet & YouTube
06.	Date & Duration	24.01.2022 & 1 hour 30 minutes
07.	No. of Student Participants	26
08.	No. of Faculty Participants	13
09.	No. of External Participants	28
10.	Expenditure amount (if any)	NIL
11.	Social Media URL	<a href="https://youtu.be/VuSg_Zq6iMU">https://youtu.be/VuSg_Zq6iMU</a>
12.	Video URL (if any)	<a href="https://youtu.be/VuSg_Zq6iMU">https://youtu.be/VuSg_Zq6iMU</a>

### 13. Objective of the Programme:

- To impart knowledge on cutting edge technologies (Industry 4.0: Digital Transformation in Manufacturing Industry) to the participants and to upgrade the expertise of the faculty members in mechanical engineering field.

### 14. Detail description of the activity:


Extramural Lecture Series on the topic "**Industry 4.0: Digital Transformation in Manufacturing Industry**" was organized by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam on 24.01.2022. The main objective of these ELS is to impart knowledge about cutting edge technologies related to industry 4.0. The Resource Person was Prof. Yusri Yusof, Principal Researcher, Advanced Manufacturing and Materials Centre (AMMC), Universiti Tun Hussein Onn Malaysia, Malaysia.

Prof. Yusri Yusof gave a brief introduction about his university Universiti Tun Hussein Onn Malaysia, Malaysia and the department facilities he is associated with. He started his presentation with the difference between a traditional product and a modern digitalized product followed by how the digitalization helped in improving the quality of the product. He then explained how the modern business (service sectors) dominates the market without owning major tangible assets. The various phases of industrial revolution were briefed by the resource person, followed by the digital transformation and its benefits. The life cycle of digital business transformation along with the framework model was narrated by the professor.

Towards the second half of the session, Professor shared the experience they faced in industry 4.0 digitalization. He shared the experience with a case study of developing a CNC machine using retrofit concept. He finally completed the session by sharing the outcome of the designed and developed CNC machine.


The vote of thanks was delivered by Dr.S.Godwin Barnabas, ASP/Mechanical, RIT. The total no. of participants presented in the webinar was 67. The entire sessions were interactive where faculties raised their doubts and a precise explanation was given by the resource person. The overall feedback of the program was good. Finally, the participants were distributed with the e-certificates after filling the feedback form.

15. Banner / flyer of the programme:




**RAMCO INSTITUTE OF TECHNOLOGY**  
North venganalur Village, Rajapalayam - 626 117  
Approved by AICTE, New Delhi, Affiliated to Anna University, NAAC, NBA Accredited (CSE,EEE, ECE & MECH) and ISO 9001:2015 Certified Institution  
Department of Mechanical Engineering

**EXTRAMURAL LECTURE SERIES(ELS) - INT005**  
**INDUSTRY 4.0 : DIGITAL TRANSFORMATION IN MANUFACTURING INDUSTRY**



Academic & Research Credentials



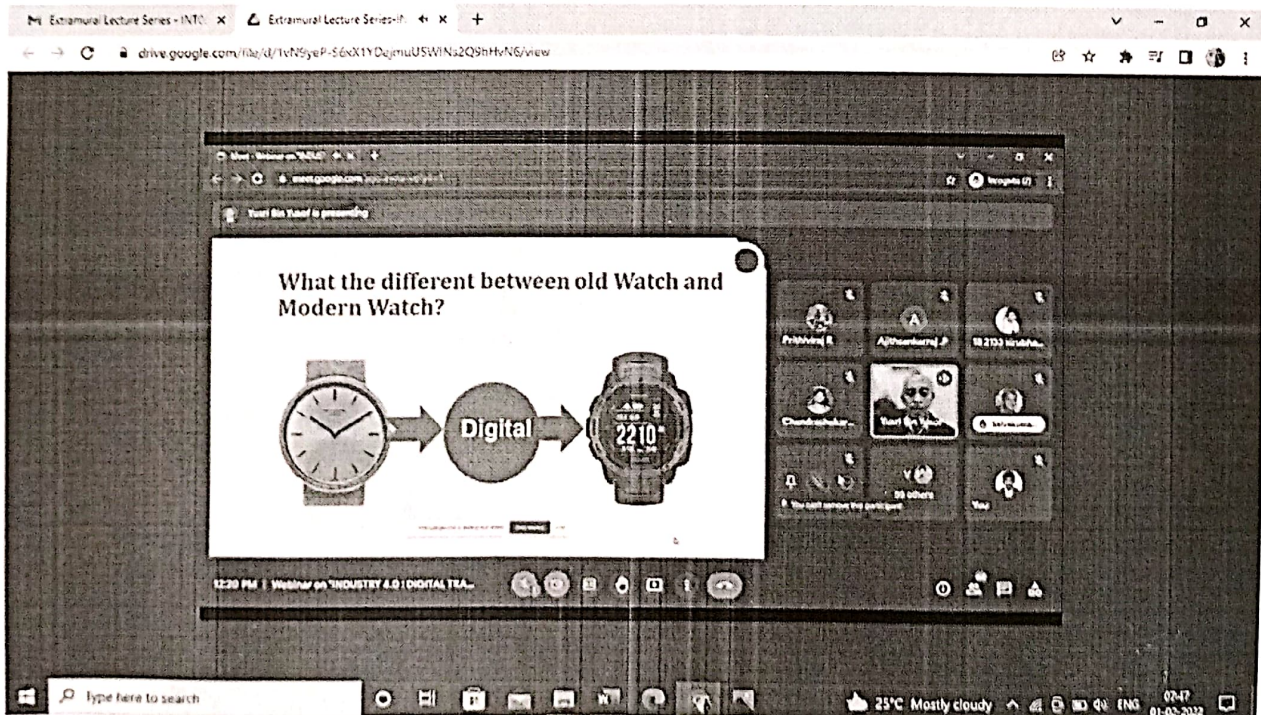
Date :January 24, 2022  
(Monday)  
IST: 12.00 P.M.  
Malaysia Time: 2.30 P.M.

**Prof Dr Yusri Yusof**  
Principal Researcher  
Advanced Manufacturing and Materials Centre (AMMC)  
Universiti Tun Hussein Onn Malaysia (UTHM),  
MALAYSIA

Registration Link : <https://tinyurl.com/Industry-Digital-Manuf>

<b>COORDINATOR</b> Dr.V.SIVAKUMAR ASSOC. PROF./MECH	<b>CONVENER</b> Dr.P.SURESHKUMAR ASSOC. PROF./MECH	<b>PATRON</b> Dr.S.RAJAKARUNAKARAN VICE PRINCIPAL & HEAD /MECH	<b>CHIEF PATRON</b> Dr.L.GANESAN PRINCIPAL
---	--	--	--

16. Programme Photographs:



Extremal Lecture Series - INT005.rmv

Open with

Technologies (Examples)

**BUSINESS MODELS**

- The world's largest taxi company owns **GO\_RIDES**
- The world's most popular media company creates **GO\_CONTENT**
- The world's most valuable retail company has **GO\_REVENUE**
- The world's largest accommodation provider owns **GO\_REAL ESTATE**

airbnb

12:27 PM | Windows 10 | 2020/08/12

25°C Mostly cloudy

Extremal Lecture Series - INT005.rmv

Open with

Innovation Solution Suggestion

Current Issues	Solutions Through Innovation
Protective Intellectual Properties (IP) from manufacturer	Open system and open software, reduce CNC largest reliance
Limited converter module for the modification or retrofitting activities	Standardize hardware and software and Dedicated user-friendly software - simple but sufficient to use
Phase of failures related to automation CNC Machine	Revisit the machine controller with new technology (JOGG) saving 75-80%
No connectivity and digitize legacy systems	Upgrading & reskilling for digitalization and in-house training program

12:27 PM | Windows 10 | 2020/08/12

25°C Mostly cloudy

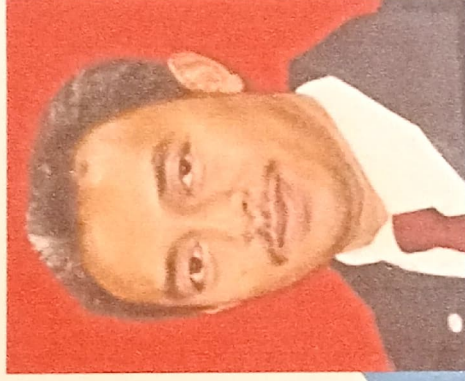
*[Signature]*  
Prepared by:

*[Signature]*  
Approved by

Department of Mechanical Engineering

## EXTRAMURAL LECTURE SERIES(ELS) - INTO05 INDUSTRY 4.0 : DIGITAL TRANSFORMATION IN MANUFACTURING INDUSTRY

Academic & Research  
Credentials



**Prof Dr Yusri Yusof**

Principal Researcher  
Advanced Manufacturing and Materials Centre (AMMC)  
Universiti Tun Hussein Onn Malaysia (UTHM),  
MALAYSIA

Date : January 24, 2022  
(Monday)

IST: 12.00 P.M.

Malaysia Time: 2.30 P.M.

Registration Link : <https://tinyurl.com/Industry-Digital-Manuf>

COORDINATOR  
Dr.V.SIVAKUMAR

CONVENER  
Dr.P.SURESHKUMAR

PATRON  
Dr.S.RAJAKARUNAKARAN

CHIEF PATRON  
Dr.L.GANESAN

ASSOC. PROF./MECH  
VICE PRINCIPAL & HEAD /MECH

PRINCIPAL

## Various Funding Opportunities In DST For Engineering Institutions

The Department of Mechanical Engineering organized Extramural lecture series (ELS)- NT005 - Online webinar titled **Various funding opportunities in DST for Engineering Institutions** on 06.02.2022 for all the faculty members (Internal & External) in various Engineering Colleges. **Dr. S.K. Varshney, Adviser/ Scientist G, Department of Science and Technology, Government of India** acted as resource person for the program. **Mr.L.Karthikeyan, AP/Mech** delivered welcome address and **Dr.J.Jabinth, AP/Mech & Faculty Adviser IE(I) Mech** introduced the resource person of this event. He detailed about the schedule of event. The resource person explained about the various fellowship like INSPIRE, NPDF, TARE, Swarna Jayanti Fellowship, FIST, Junior Research Fellowship, senior Research Fellowship, Research Associateship and few upcoming fellowships. At the end of the session participants clarified their doubts. Mr. L. Karthikeyan, AP/Mech acted as a moderator for the session and Dr.V.Sivakumar, AP/Mech delivered vote of thanks for the program. Totally, there are 125 registrations are received across all major cities of our state and few are from other states also. Out of which 62 participants attended via Google Meet Platform. All the 62 Participants received their certificate after they completed all procedures.





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Academic Year 2021 – 2022 (Even Semester)

## Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Introduction about Geopolymers
02.	Programme Theme	Research opportunities
03.	Programme Type	Webinar
04.	Details of resource person	Prof. Kinga Korniejenko Researcher Cracow University of Technology Poland
05.	Mode & Venue / Platform	Google Meet & YouTube <a href="https://meet.google.com/gpu-mwjo-ohd">https://meet.google.com/gpu-mwjo-ohd</a>
06.	Date & Duration	28.03.2022 & 1 hour 30 minutes
07.	No. of Student Participants	26
08.	No. of Faculty Participants	13
09.	No. of External Participants	29
10.	Expenditure amount (if any)	NIL
11.	Social Media URL	<a href="https://youtu.be/VuSg_Zq6iMU">https://youtu.be/VuSg_Zq6iMU</a>
12.	Registration Link	<a href="https://tinyurl.com/Intro-Geopolymers">https://tinyurl.com/Intro-Geopolymers</a>

### 13. Objective of the Programme:

- To impart knowledge on cutting edge technologies (Geopolymers) to the participants and to upgrade the expertise of the faculty members in mechanical engineering field.

#### 14. Detail description of the activity:

Extramural Lecture Series on the topic "**Introduction about Geopolymers**" was organized by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam on 28.03.2022. The main objective of this ELS is to impart knowledge about cutting edge technologies related to Geopolymer and its application in the field of engineering. The Resource Person was Prof. Kinga Korniejeko, Researcher, Cracow University of Technology, Poland.


Dr.S.Godwin Barnabass, ASP/Mech welcomed the participants and delivered the introduction about the resource person. Prof. Kinga Korniejeko gave a brief introduction about Geopolymers along with its history. She briefed the structure of geopolymers and the future scope of geopolymer applications. The technology through which geopolymers are extracted was explained with a flowchart along with time requirement, temperature and curing period. Advantages and the limitations of geopolymer usage and the current research to overcome the limitations were narrated by the Professor.

Towards the second half of the session, Professor shared the different application areas of the geopolymers. She stressed that the maximum use of the geopolymers is in the area of construction followed by runway, pipe, concrete repair. She also stressed that India is having higher potential of growth rate in utilization of geopolymers. Resource person finally completed the session by sharing benefits of geopolymers as follows:

- Geopolymers are the valuable alternative for Portland cement.
- Using local sources for raw materials gives benefits to the ecology and is cost-effective.
- Raw materials from different sources could have different characteristic; the properties of the final products will be correlated with the features of raw material.
- The important issue is also proper reinforcement for the materials that can significantly improve their properties.
- Products made from geopolymers can be produced traditional casting technology as well as using additive manufacturing.
- Geopolymers find some industrial application and they have a potential to find many others.

The vote of thanks was delivered by Dr.S.Godwin Barnabas, ASP/Mechanical, RIT. The total no. of participants presented in the webinar was 68. The entire sessions were interactive where participants raised their doubts and a precise explanation was given by the resource person. The overall feedback of the program was good. Finally, the participants were distributed with the e-certificates after filling the feedback form.


15. Banner / flyer of the programme:




**RAMCO INSTITUTE OF TECHNOLOGY**  
 North venganalur Village, Rajapalayam - 626 117  
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 Department of Mechanical Engineering

**EXTRAMURAL LECTURE SERIES(ELS) - INT006**  
**INTRODUCTION ABOUT GEOPOLYMERS**

Academic & Research  
Credentials





**Kinga Korniejenko**  
 Researcher,  
 Cracow University of Technology,  
 Poland

Date : March 28, 2022  
 (Monday)  
 IST: 3.10 P.M.  
 Poland Time: 10.30 A.M.

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Registration Link : <https://tinyurl.com/intro-Geopolymers>

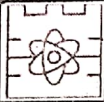
**COORDINATOR**  
 Dr.V.SIVAKUMAR  
 ASSOC. PROF./MECH

**CONVENER**  
 Dr.P.SURESHKUMAR  
 ASSOC. PROF./MECH

**PATRON**  
 Dr.S.RAJAKARUNAKARAN  
 VICE PRINCIPAL & HEAD /MECH

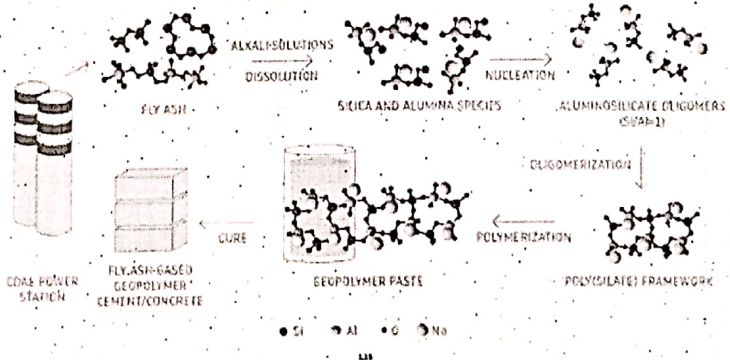
**CHIEF PATRON**  
 Dr.L.GANESAN  
 PRINCIPAL

16. Programme Photographs:



**Geopolymers**

- Geopolymers are a group of materials defining as inorganic aluminosilicate polymers with specific composition and properties. They are obtained in the reaction of polycondensation of ortosilicans (comprising Si and Al atoms in their structure) with activated NaOH or KOH.



The diagram illustrates the geopolymerization process. It starts with 'FLY ASH' (represented by a powder station) and 'ALKALI SOLUTIONS' (represented by a beaker). These undergo 'DISSOLUTION' to form 'Si(OH)4 AND ALUMINA SPECIES'. These species then undergo 'NUCLEATION' to form 'ALUMINOSILICATE OLIGOMERS (Si/Al-OH)'. The oligomers then undergo 'POLYMERIZATION' to form a '(POLY)SILICATE FRAMEWORK'. Finally, this framework is 'CURED' to produce 'FLY ASH-BASED GEOPOLYMER CEMENT/CONCRETE'. A legend at the bottom identifies the atoms: Si (black dot), Al (grey dot), O (white dot), and Na (red dot).

Introduction

Structure

Geopolymers technology

Raw materials

Area of applications

Exemplary applications



## Geopolymers - applications

Introduction

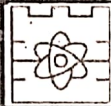
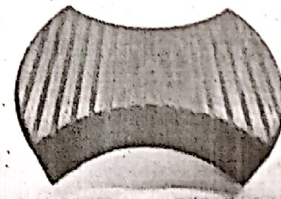
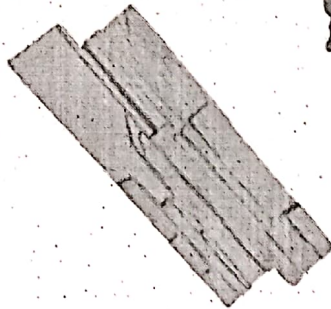
Structure

Geopolymers technology

Raw materials

Area of applications

Exemplary applications



## Geopolymers - applications

Introduction

Structure

Geopolymers technology

Raw materials

Area of applications

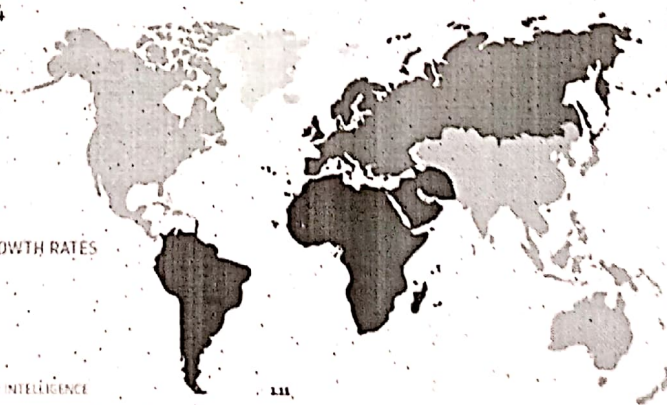
Exemplary applications

GEOPOLYMER MARKET,  
GROWTH RATE BY REGION,  
2019-2024

REGIONAL GROWTH RATES

- HIGH
- MID
- LOW

SOURCE: MORDOR INTELLIGENCE



Source: <https://www.mordorintelligence.com/industry-reports/geopolymer-market>

Prepared by:

*[Handwritten signature]*  
31/03/20

Approved by

*[Handwritten signature]*  
31/03/20

Form No. CO10

Rev.No. 00

Effective Date: 08.12.2020

Page 4 of 4

Department of Mechanical Engineering

## EXTRAMURAL LECTURE SERIES(ELS) - INT006

### INTRODUCTION ABOUT GEOPOLYMERS

Academic & Research  
Credentials



**Kinga Korniejeko**

Researcher,  
Cracow University of Technology,  
Poland

Date : March 28, 2022  
(Monday)

IST: 3.10 P.M.

Poland Time: 10.30 A.M.

Registration Link : <https://tinyurl.com/Intro-Geopolymers>

COORDINATOR

Dr.V.SIVAKUMAR

ASSOC. PROF./MECH

CONVENER

Dr.P.SURESHKUMAR

ASSOC. PROF./MECH

PATRON

Dr.S.RAJAKARUNAKARAN

VICE PRINCIPAL & HEAD /MECH

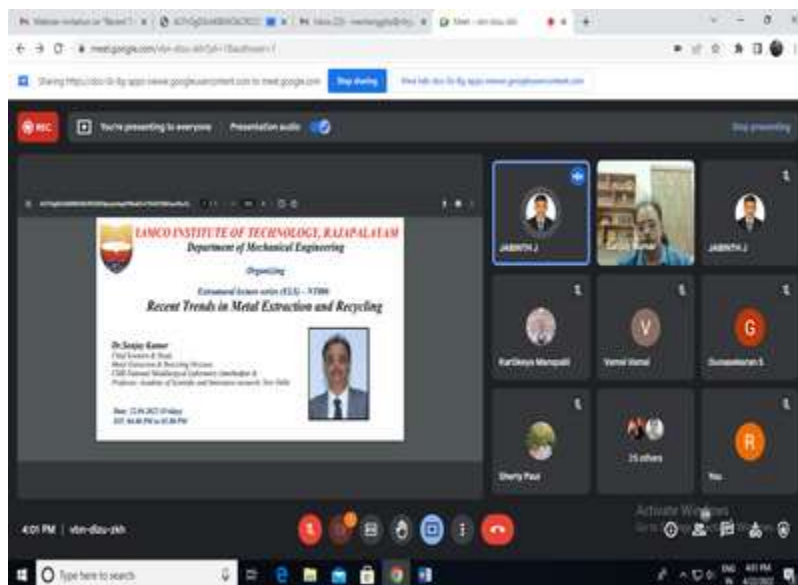
CHIEF PATRON

Dr.L.GANESAN

PRINCIPAL

## Recent Trends In Metal Extraction And Recycling

Extramural Lecture Series on the topic "**Recent Trends in Metal Extraction and Recycling**" was organized by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam on 22.04.2022. The main objective of these ELS is to impart knowledge about cutting edge technologies related to material Extraction and Recycling Process. The Resource Person was **Dr.Sanjay Kumar, Chief Scientist & Head, Metal Extraction & Recycling Division, CSIR-National Metallurgical Laboratory Jamshedpur & Professor, Academy of Scientific and Innovative research, New Delhi. Prof. Sanjay Kumar** gave a brief introduction about possible reason for Megatrends in metal Extraction. He then explained how the Sustainable Development Goals (SDG) in climatic conditions, Cost consideration & Green Production. The various Tools & Technologies of industrial revolution were briefed by the resource person, followed by the Artificial Intelligence, IoT, Big Data & 3D Printing and its benefits. Why decarbonisation in steel industry & CO2 reduction strategy was explained by the professor. Towards the second half of the session, Professor gave urban ore recycling important. He shared the (Technology, Environmental, Social) challenges in E-waste Management. He finally completed the session by sharing the CSIR-NML initiatives for rare earths extraction strategies. Dr.J.Jabinth, AP/Mechanical & Faculty Adviser of IE(I) Mechanical Student chapter Coordinated the program. Mr.L.Karthikeyan, AP/Mech moderated the session. The vote of thanks was delivered by Dr.P.Suresh Kumar, ASP/Mechanical, RIT. The total no. of participants presented in the webinar was 70. The entire sessions were interactive where faculties raised their doubts and a precise explanation was given by the resource person. The overall feedback of the program was excellent. Finally, the participants were distributed with the e-certificates after filling the feedback form.



Microsoft Edge browser window showing a Google Meet session. The browser address bar displays the meeting URL: `meet.google.com/vn-ibau-wtk?authuser=1`.

The meeting interface includes a header with the text "Suraj Kumar is presenting". The main content area displays "SDG Goals" with a grid of 17 icons representing the Sustainable Development Goals. The icons are arranged in a 3x6 grid, with the 17th goal (Partnerships for the Goals) positioned at the bottom right of the grid. The icons are: 1. No Poverty, 2. Zero Hunger, 3. Good Health and Well-being, 4. Quality Education, 5. Gender Equality, 6. Clean Water and Sanitation, 7. Affordable and Clean Energy, 8. Decent Work and Economic Growth, 9. Industry, Innovation and Infrastructure, 10. Reduced Inequalities, 11. Sustainable Cities and Communities, 12. Responsible Consumption and Production, 13. Climate Action, 14. Life Below Water, 15. Life on Land, 16. Peace, Justice and Strong Institutions, 17. Partnerships for the Goals.

The right side of the screen shows a grid of participant video thumbnails. Visible participants include: Suraj Kumar (top left), JASWANTH J. (top right), JASWANTH J. (middle left), Richana Raju (middle right), Sherry Paul (bottom left), Ganesha Kumar S. (bottom right), and 22 others (bottom center). Each thumbnail includes a small "1" icon in the top right corner.

The bottom of the screen shows the Windows taskbar with the time 4:07 PM and date 1/10/2023. The taskbar includes the Start button, search bar, and various application icons.



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## Automation and Robotics Club

in association with

RIT ISTE Student Chapter, The Institution of Engineers (India) and Institutions Innovation Council

## Workshop on “IoT and its Applications”

**Date:** 06 May 2022

**Time:** 04.00 PM to 05.00 PM (IST)

**Venue:** DSP Laboratory

### Faculty Coordinators:

Mr. S. Valai Ganesh, AP/Mech

### Student Coordinators:

Mr. A. Kumaragurubaran, III ECE

Mr. M. Kesav Anand, III ECE

A Workshop on “IoT and its applications” was organized by Automation and Robotics Club in association with RIT ISTE Student Chapter, The Institution of Engineers (India) and Institutions Innovation Council (IIC) on 06 May 2022 at DSP Laboratory from 04.00 PM to 05.00 PM. Totally 30 Students from CSE, ECE and Mechanical Engineering attended this event. Mr. B. Kannan, AP(SG)/ECE and Mr. P. Gunasekaran, AP/ECE were the resource person for this event.

### Brochure Sample:

**RAMCO INSTITUTE OF TECHNOLOGY**  
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NBA Accredited UG Programs: CSE, EEE, ECE and Mech

**Automation and Robotics Club of RIT**

**WORKSHOP ON**  
**IOT AND ITS APPLICATIONS**

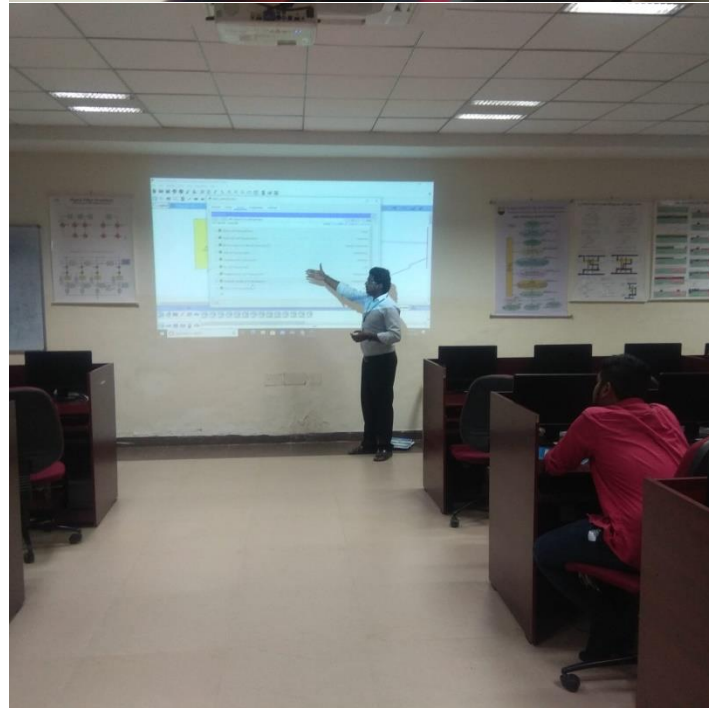
**MAY 06, 2022**  
**4.00-5.00 PM**

**REGISTER NOW**  
<https://tinyurl.com/arciot2022>

**Associate Members**  
RIT ISTE Students Chapter, RIT (E(I)), IIC

**follow us**  
/arcrit, /arc\_rit, /arc\_rit, /arc\_rit, arc@ritrjpm.ac.in

## Glimpse(s)





**Certificate Sample:**

 **RAMCO INSTITUTE OF TECHNOLOGY**   
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Accredited by NAAC and ISO 9001:2015 certified Institution  
Automation and Robotics Club  
NBA Accredited UG Programs: CSE, EEE, ECE and Mech

**CERTIFICATE OF PARTICIPATION**

This Certificate is Presented to  
**SABNA DEVI P**  
from  
IV Year, Department of CSE, Ramco Institute of Technology  
participated in **Workshop on IoT and its Applications** event  
organised by Automation and Robotics Club of RIT in association  
with RIT ISTE, RIT IE(I), IIC on 06 May 2022

Associate Partners

This is an electronically generated certificate hence does not require signature

# **Students Feedback Analysis Report**

## **Academic Year 2021-22 [Even Semester]**

**Programme:** B.E., Mechanical Engineering

**Semester:** II, IV and VI Semester B.E-CSE, ECE and Mechanical Engineering

**Title of Programme:** workshop on “IoT and its Applications”

**Date:** 06.05.2022

**Venue:** DSP Laboratory

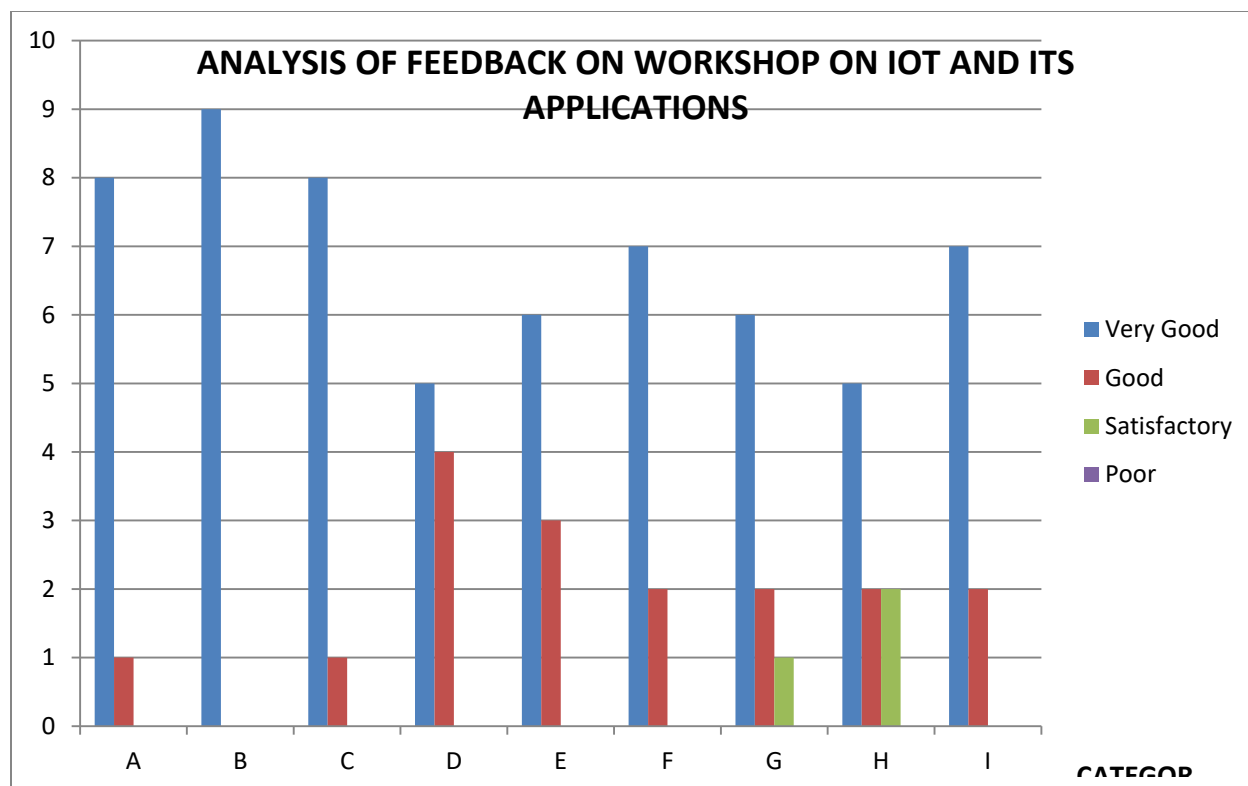
**Number of students enrolled:** 13

**Number of students participated:** 30

### **Feedback by Students:**

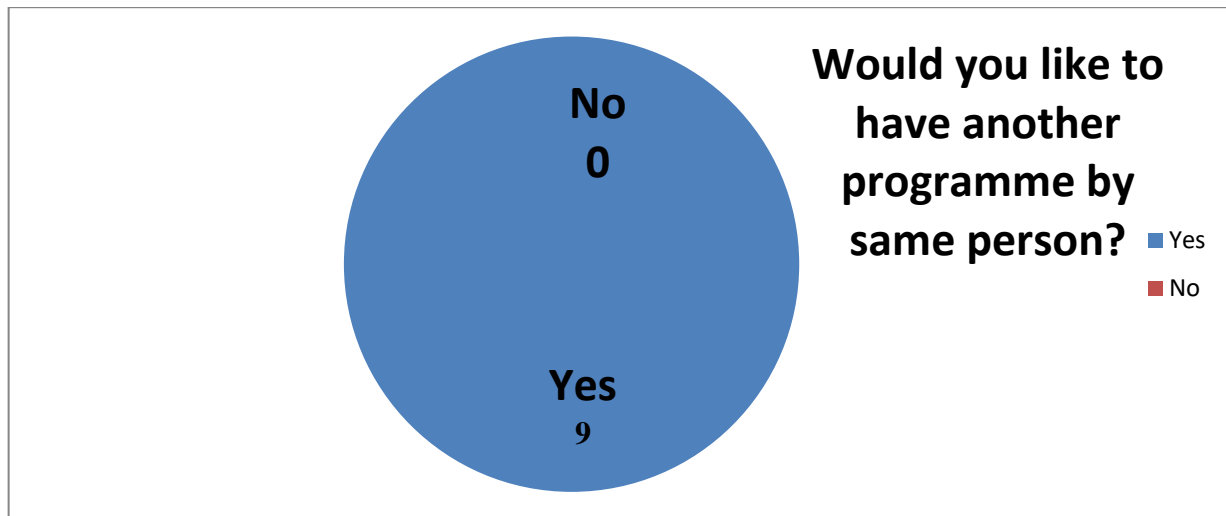
A Workshop on “IoT and its applications” was organized by Automation and Robotics Club in association with RIT ISTE Student Chapter, The Institution of Engineers (India) and Institutions Innovation Council (IIC) on 06 May 2022 at DSP Laboratory from 04.00 PM to 05.00 PM. Totally 30 Students from CSE, ECE and Mechanical Engineering attended this event. Mr. B. Kannan, AP(SG)/ECE and Mr. P. Gunasekaran, AP/ECE were the resource person for this event.

- Programme/course content - **Very Good**
- Rate the lecture sessions / presentations – **Very Good**
- Rate the practical sessions – **Very Good**
- Rate interactive sessions – **Very Good**
- Quality of course material given to you - **Very Good**
- Usefulness of programme in improving your skills – **Very Good**
- Improved your knowledge / skills after attending the programme – **85% - 95%**
- Rate the timely communication in all aspects of the programme – **Very Good**
- Rate the overall arrangement and conduct of the programme/ course - **Very Good**
- Contents discussed were relevant to the topics planned – **Yes (9 students)**
- Would you like to have another programme by the same Resource person - **Yes (9 students)**



<b>A</b>	Programme/course content
<b>B</b>	Rate the lecture sessions / presentations
<b>C</b>	Rate the practical sessions
<b>D</b>	Rate interactive sessions
<b>E</b>	Quality of course material given to you
<b>F</b>	Usefulness of programme in improving your skills
<b>G</b>	Improved your knowledge / skills after attending the programme
<b>H</b>	Rate the timely communication in all aspects of the programme
<b>I</b>	Rate the overall arrangement and conduct of the programme/ course

**Would you like to have another programme by same person?**



**Any specific feedback:**

- a. Program could be planned for three days in future

**Specific topics & sessions liked:**

Following sessions were most liked by the students

- ✓ IoT Architecture
- ✓ IoT Simulations

**Suggestions for improvement:**

Based on the detailed analysis of the feedback collected from the students and discussed with the faculty members, the following suggestions were arrived for the betterment of this course,

- Courses will be conducted by same resource person(s) of Ramco Institute of Technology Faculty members
- Conduct this program in regular period of time (duration extended to 3 days)
- Skills and Knowledge after attending the programme may be improved by the following steps
  - ✓ Continuous usage of IoT Concepts
  - ✓ Preparing for projects and competition's



# RAMCO INSTITUTE OF TECHNOLOGY

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Accredited by NAAC & An ISO 9001: 2015 Certified Institution  
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Academic Year 2021 – 2022 (Even Semester)

## Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Thermo-compressors to Save Energy in Multiple Effect Evaporators
02.	Programme Theme	Research opportunities
03.	Programme Type	Webinar
04.	Details of resource person	Dr.Sileshi Kore Assistant Professor Department of Mechanical Engineering Faculty of Engineering Wolayita Sodo University Ethiopia
05.	Mode & Venue / Platform	Google Meet & YouTube <a href="https://meet.google.com/ixf-vs00-npt">https://meet.google.com/ixf-vs00-npt</a>
06.	Date & Duration	30.05.2022 & 35 minutes
07.	No. of Student Participants	19
08.	No. of Faculty Participants	15
09.	No. of External Participants	24
10.	Expenditure amount (if any)	NIL
11.	Registration Link	<a href="https://tinyurl.com/INT007-Thermo">https://tinyurl.com/INT007-Thermo</a>

### 12. Objective of the Programme:

- To impart knowledge on cutting edge technologies (Energy conservation in multiple effect evaporators using Thermo-compressors) to the participants and to upgrade the expertise of the faculty members in mechanical engineering field.

### 13. Detail description of the activity:

Extramural Lecture Series on the topic "Thermo-compressors to Save Energy in Multiple Effect Evaporators" was organized by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam on 30.05.2022. The main objective of this ELS is to impart knowledge about cutting edge technologies related to energy conservation in multiple effect evaporators using Thermo-compressors and its benefits. The Resource Person was Dr.Sileshi Kore, Assistant Professor, Department of Mechanical Engineering, Faculty of Engineering, Wolayita Sodo University, Ethiopia

Mr.R.Arun Kumar, AP/Mech welcomed the participants and Dr.S.Godwin Barnabass, ASP/Mech delivered the introduction about the resource person. Dr.Sileshi Kore gave a brief introduction about multiple-effect evaporator and its integration with thermo-vapour compressor. Further, the structure of thermo-compressor along with its uses and applications were discussed by the resource person. The method for mixing low-pressure steam with high pressure steam using thermos-compressor was explained. The components of thermo-compressor and the components in which energy conservation can be done was briefed by the Professor.

Towards the second half of the session, two types of thermos-compressors namely: Fixed nozzle type and Variable nozzle type was explained along with its working principle. The precaution in choosing the type of thermos-compressor was shared. The advantages of using the thermo-compressor was listed along with common cause of poor performance as listed below:

- Lower Motive pressure.
- Higher differential pressure
- Motive steam not dry
- Variation in discharge pressure.
- Motive steam excessive superheat.
- Nozzle worn-out or choked
- Steam leakage high to low pressure
- Alignment issue with nozzles.


At last the list of factors to be considered while choosing the type of evaporator were listed and concluded by the resource person.


The vote of thanks was delivered by Dr.V.Sivakumar, ASP/Mechanical, RIT. The total no. of participants presented in the webinar was 58 including 24 external participants. The overall feedback of the program was good.

14. Banner / flyer of the programme:

**RAMCO INSTITUTE OF TECHNOLOGY**  
North vengaloor village, Rajapetnam - 626 017  
Approved by AICTE, New Delhi, affiliated to Anna University, MAAC Accredited and ISO 9001:2015 Certified Institution  
Department of Mechanical Engineering

**EXTRAMURAL LECTURE SERIES(ELS) - INT007**  
**THERMO-COMPRESSORS TO SAVE ENERGY IN MULTI EFFECT EVAPORATORS**

  
<https://meet.google.com/xf-vs00-npt>

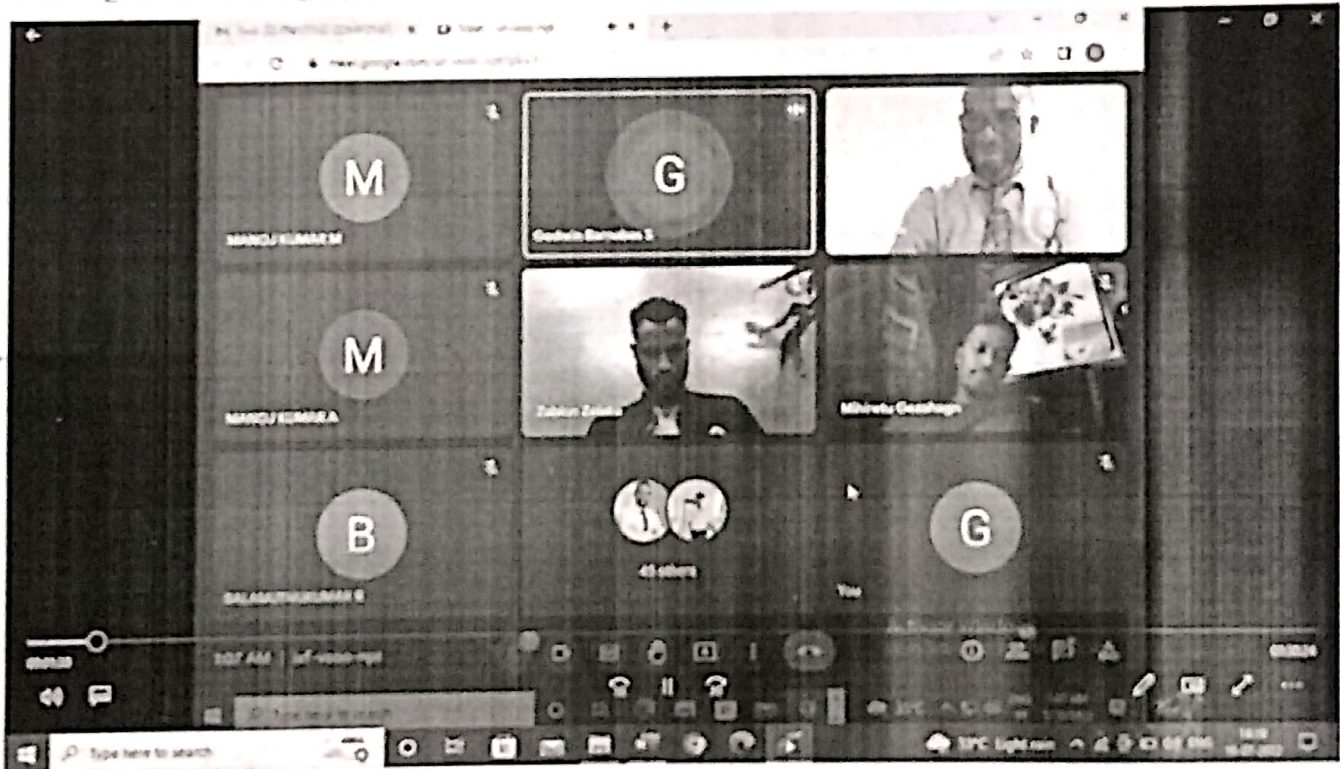
  
**Dr. Bifeshi Kore**  
Assistant Professor  
Department of Mechanical Engineering  
Faculty of Engineering  
Addis Ababa University, Ethiopia

Date : May 30, 2022  
(Monday)  
IST: 01.30 P.M.  
Ethiopia Time: 11.00 A.M.

Registration Link : <https://tinyurl.com/INT007:Thermo>

COORDINATOR: DR. SIVAKUMAR ASSOC. PROF./MECH  
CO-OWNER: DR. P. SURESHKUMAR ASSOC. PROF./MECH  
PATRON: DR. S. RASHEEDHAKARAN VICE PRINCIPAL & HEAD /MECH  
CHIEF PATRON: DR. L. GANESH PRINCIPAL

15. Programme Photographs:



## Types of Thermo-compressor

### Fixed nozzle type

- This type of compressor has no regulating spindle.
- An element of control is achievable by throttling the motive steam pressure via a separate valve upstream.
- Typically the fixed nozzle is used when operating loads are stable.

Cross section of fixed nozzle type



Zoom Meeting interface showing participants: Tareq Fawaz, Waleed Alotaibi, MANOJ KUMARA, and Kamal Muralidharan. A notification for Windows activation is visible.

Windows taskbar showing search bar, system tray with weather (32°C Light rain), and date (15/01/2022).

Zoom Meeting interface showing a presentation slide with technical text and diagrams. The slide content is mostly illegible but appears to be related to the thermo-compressor topic.

Zoom Meeting interface showing participants: Waleed Alotaibi, MANOJ KUMARA, and Madhuru Madhuru. A 'Thank You Sir' message is visible from SUBRAMAN P.

Windows taskbar showing search bar, system tray with weather (32°C Light rain), and date (15/01/2022).

Prepared by: *[Signature]*

Approved by: *[Signature]*



# RAMCO INSTITUTE OF TECHNOLOGY

North venganalur Village, Rajapalayam - 626 117

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Department of Mechanical Engineering

## EXTRAMURAL LECTURE SERIES(ELS) - INT007

### THERMO-COMPRESSORS TO SAVE ENERGY IN MULTI EFFECT EVAPORATORS



<https://meet.google.com/ixf-vsoo-npt>



**Dr. Sileshi Kore**

Assistant Professor  
Department of Mechanical Engineering  
Faculty of Engineering  
Addis Ababa University, Ethiopia

Date : May 30, 2022  
(Monday)

IST: 01.30 P.M.

Ethiopia Time:11.00 A.M.

Registration Link : <https://tinyurl.com/INT007-Thermo>

COORDINATOR  
Dr.V.SIVAKUMAR  
ASSOC. PROF./MECH

CONVENER  
Dr.P.SURESHKUMAR  
ASSOC. PROF./MECH

PATRON  
Dr.S.RAJAKARUNAKARAN  
VICE PRINCIPAL & HEAD /MECH

CHIEF PATRON  
Dr.L.GANESAN  
PRINCIPAL



# RAMCO INSTITUTE OF TECHNOLOGY

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## Automation and Robotics Club

in association with

RIT ISTE Student Chapter, The Institution of Engineers (India) and Institutions Innovation Council

### Workshop on “Email Automation using RPA(Series-I)”

**Date:** 31 May 2022

**Time:** 03.00 PM to 05.00 PM (IST)

**Venue:** Mechatronics Laboratory

**Faculty Coordinators:**

Mr. S. Valai Ganesh, AP/Mech

**Student Coordinators:**

Mr. A. Kumaragurubaran, III ECE

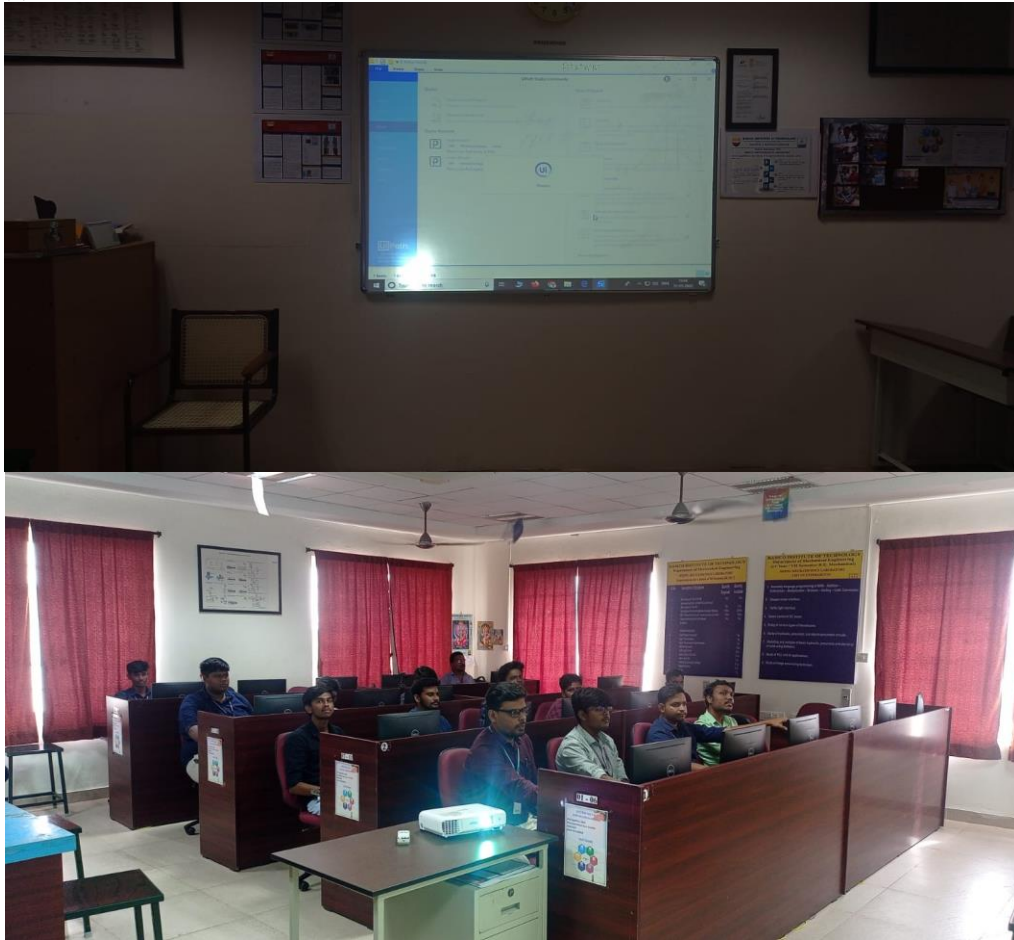
Mr. M. Kesavanand, III ECE

A Workshop on “Email Automation using RPA(Series-I)” was organized by Automation and Robotics Club in association with RIT ISTE Student Chapter, The Institution of Engineers (India) and Institutions Innovation Council (IIC) on 31 May 2022 at Mechatronics Laboratory from 03.00 PM to 05.00 PM. Totally 13 Students from ECE and Mechanical Engineering attended this event. Mr. S. Valai Ganesh, AP/Mech was the resource person for this event.

**Brochure Sample:**

The brochure features a dark blue background with a central illustration of a purple and blue robot head. Text is arranged in a structured layout. At the top left is the RAMCO Institute of Technology logo. The main title 'RAMCO INSTITUTE OF TECHNOLOGY' is in large, light blue letters. Below it, accreditation details are listed in white. The word 'Presents' is centered. The workshop title 'WORKSHOP ON EMAIL AUTOMATION USING RPA (SERIES-I)' is in large, bold, yellow and white letters. Below this, the target audience is specified: 'EXCLUSIVELY FOR RIT PROFESSIONAL SOCIETY, CLUBS AND ASSOCIATION MEMBERS'. The date and time are listed with icons: '31 MAY 2022' and '03.00 PM TO 05.00PM'. The organizing body 'ARE AUTOMATION AND ROBOTICS CLUB' is at the bottom right. Associate members' logos (RIT ISTE Students Chapter, RIT (E)), IIC, and the Institution's Innovation Council are shown at the bottom center. Social media handles for Facebook, Instagram, Twitter, and YouTube are listed as '/arcrit' or '/arc\_rit', along with the email 'arc@ritrjpm.ac.in'.

## Glimpse(s)



## Certificate Sample:



# RAMCO INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Accredited by NAAC and ISO 9001:2015 certified Institution  
NBA Accredited UG Programs: CSE, EEE, ECE and Mech



**CERTIFICATE OF PARTICIPATION**

This Certificate is Presented to

S. VINOTH KUMAR

from

II Year, Department of ECE, Ramco Institute of Technology  
participated in **Workshop on Email Automation using RPA  
(Series-I)** event organised by Automation and Robotics Club of  
RIT in association with RIT ISTE, RIT IE(I), IIC on 31 May 2022

Associate Partners



This is an electronically generated certificate hence does not require signature

# **Students Feedback Analysis Report**

## **Academic Year 2021-22 [Even Semester]**

**Programme:** B.E., Mechanical Engineering

**Semester:** IV and VI Semester B.E- ECE and Mechanical Engineering

**Title of Programme:** workshop on “Email Automation using RPA (Series-I)”

**Date:** 31.05.2022

**Venue:** Mechatronics Laboratory

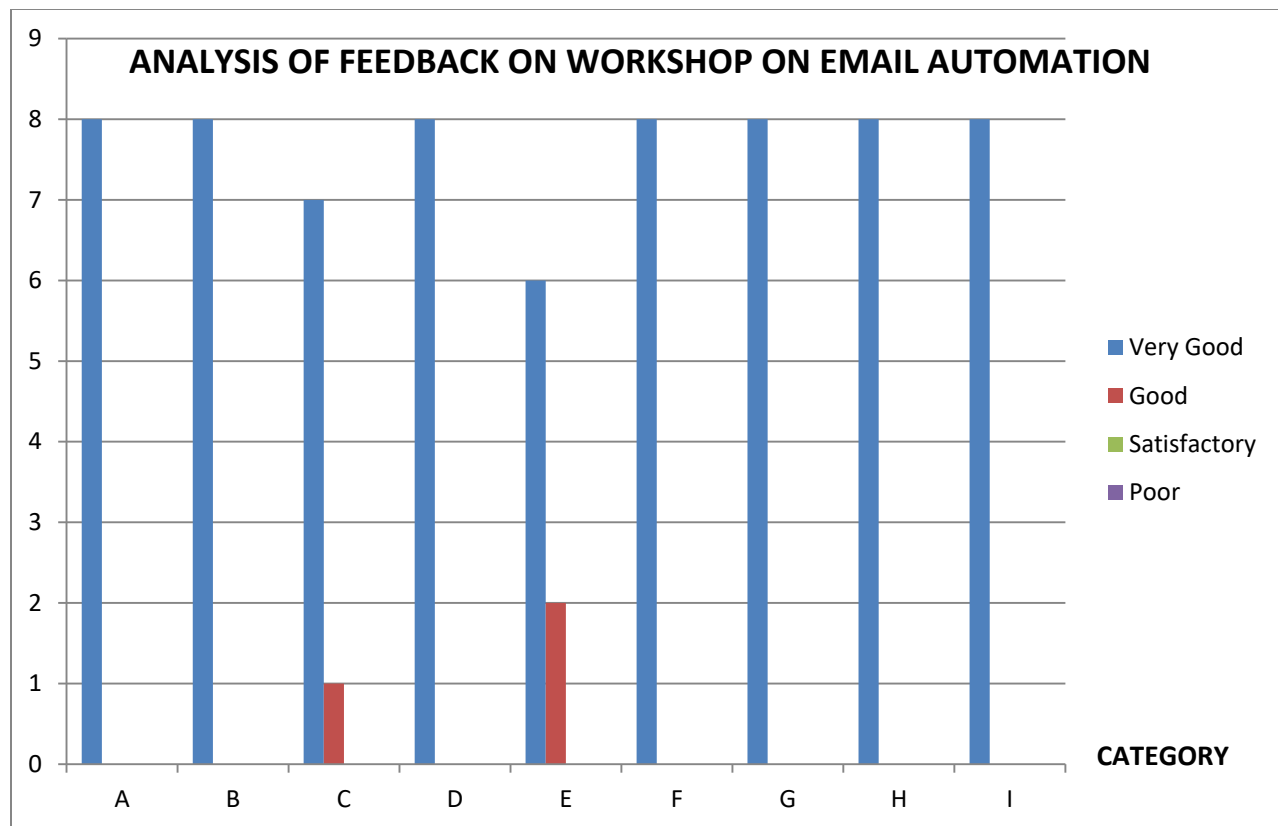
**Number of students enrolled:** 15

**Number of students participated:** 13

### **Feedback by Students:**

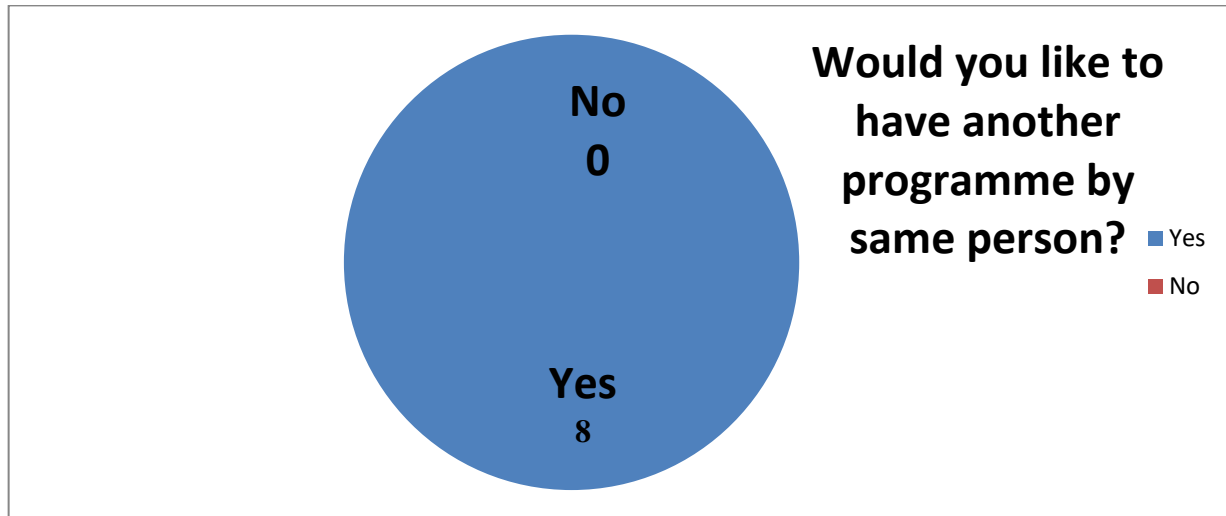
A Workshop on “Email Automation using RPA(Series-I)” was organized by Automation and Robotics Club in association with RIT ISTE Student Chapter, The Institution of Engineers (India) and Institutions Innovation Council (IIC) on 31 May 2022 at Mechatronics Laboratory from 03.00 PM to 05.00 PM. Totally 13 Students from ECE and Mechanical Engineering attended this event. Mr. S. Valai Ganesh, AP/Mech was the resource person for this event.

- Programme/course content - **Very Good**
- Rate the lecture sessions / presentations – **Very Good**
- Rate the practical sessions – **Very Good**
- Rate interactive sessions – **Very Good**
- Quality of course material given to you - **Very Good**
- Usefulness of programme in improving your skills – **Very Good**
- Improved your knowledge / skills after attending the programme – **85% - 95%**
- Rate the timely communication in all aspects of the programme – **Very Good**
- Rate the overall arrangement and conduct of the programme/ course - **Very Good**
- Contents discussed were relevant to the topics planned – **Yes (8 students)**
- Would you like to have another programme by the same Resource person - **Yes (8 students)**



<b>A</b>	Programme/course content
<b>B</b>	Rate the lecture sessions / presentations
<b>C</b>	Rate the practical sessions
<b>D</b>	Rate interactive sessions
<b>E</b>	Quality of course material given to you
<b>F</b>	Usefulness of programme in improving your skills
<b>G</b>	Improved your knowledge / skills after attending the programme
<b>H</b>	Rate the timely communication in all aspects of the programme
<b>I</b>	Rate the overall arrangement and conduct of the programme/ course

**Would you like to have another programme by same person?**



**Any specific feedback:**

- a. Program could be converted as a value added program in future

**Specific topics & sessions liked:**

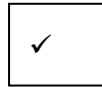
Following sessions were most liked by the students

- ✓ Email Automation
- ✓ Sending emails

**Suggestions for improvement:**

Based on the detailed analysis of the feedback collected from the students and discussed with the faculty members, the following suggestions were arrived for the betterment of this course,

- Courses will be conducted by same resource person(s) of Ramco Institute of Technology Faculty members
- Conduct this program in regular period of time
- Skills and Knowledge after attending the programme may be improved by the following steps
  - ✓ Continuous usage of RPA tools
  - ✓ Preparing for projects and competition's



# The Institution of Engineers (India)

(ESTABLISHED 1920, INCORPORATED BY ROYAL CHARTER 1935)

8 GOKHALE ROAD, KOLKATA – 700 020

(Lecture /Paper presentation/Seminar//Workshop/Conference/Technical/Project Demonstration/Model competition/Poster Competition/Group Discussion/Technical Quiz/Aptitude Test/Technical Visit/Film show/Display of Technical Information/Short term course)

**Title /Theme: - Extramural Lecture Series (ELS) - NT007 “HYDROGEN AND ITS APPLICATIONS”**

**Date : 19.06.2022**

**Duration: 1 Hour (03.00 PM to 04.00 PM)**

**No. of Students and Faculties Participated: 44 participants**

**Photographs with caption:**

*(Activity reports not supported by photographs shall not be considered for award )*

The screenshot shows a Google Meet interface. The main window displays a presentation slide with the following text:

**RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM**  
Department of Mechanical Engineering  
Organizing  
Extramural lecture series (ELS) – NT007  
**HYDROGEN AND ITS APPLICATIONS**

**Shri. Rajan Varshney**  
Deputy General Manager,  
NTPC, Farakka

Date: 19.06.2022 (Sunday)  
IST: 03.00 PM to 04.00 PM

The slide also features the RAMCO Institute of Technology logo and a portrait of Shri. Rajan Varshney. To the right of the slide is a grid of 12 participant thumbnails. The participants are: RIT-MECH ICSTA-22, Rajan Varshney, Rajan Varshney, Meharajbegum A, Anith Rajaseelan, Parvesh choudhary, Sakthivel Lakshman..., 13 others, and You. The bottom of the screenshot shows the Windows taskbar with the time 2:56 PM and date 6/19/2022.

## Climate Change: GHG Effects: Rise in Temp. Pollution, COVID, Weather Extremities

### Climate Change Impact



Australian Wildfires



Polar Vortex: -46°C as Chicago River turns to ice



London Floods



Heat Wave in Europe



Drought in Africa



Glacier Burst & Flash Floods



Rajan Varshney

## Deep-Decarbonisation/Clean air, Water /Waste Management -- a must for Survival

Weather extremities and affecting Land ,soil, air, water etc.

Low productivity, ill-health & untimely deaths. Unproductive expenditures, Cumulatively Lower GDP

Changing weather patterns affecting our crop yields & farming practices

Temperature Rise has to be limited to **1.5°C** by 2100

IPCC 6<sup>th</sup> report 10Aug21 : Already 1.0°C and

At current rate 1.5°C / 2°C may be breached by 2030/40

■ H2 is part of any Decarbonisation Solution

Activate Windows  
Go to Settings to activate Windows

meet.google.com is sharing your screen. Stop sharing Hide



Rajan Varshney

## Applications: Power to H2 to Industry

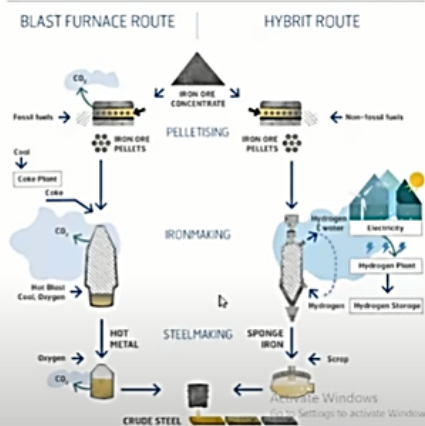
Typical Installations:

➤ Float glass industry, Turkey: 1 MW electrolyser

➤ Steel industry, Kirovgrad, Russia: 4 MW electrolyser

**HYBRIT** - World's first fossil-free steel-making technology **Already Sample Delivered Aug 21**

- Vattenfall (one of Europe's largest electricity producers)
- LKAB (Europe's largest iron ore producer)
- SSAB (global leader in high-strength steels)



Rajan Varshney

Activate Windows  
Go to Settings to activate Windows

**Details:****Chief Guest/ Guest of Honor: Nil****Designation: Nil****Speaker 1: Shri. Rajan Varshney****Designation/Organization: Deputy General Manager, NTPC, Farakka****Report***(maximum 250 words)*

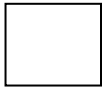
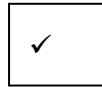
The Department of Mechanical Engineering organized Extramural lecture series (ELS)- NT007 - Online webinar titled "HYDROGEN AND ITS APPLICATIONS" on 19.06.2022 for all the faculty members (Internal & External) in various Engineering Colleges.

Mr.L.Karthikeyan, AP/Mech delivered welcome address and Dr.J.Jabinth, AP/Mech introduced the resource person of this event. He detailed about the schedule of event.

The resource person explained that hydrogen has a vital role to play in Deep de-carbonization/clear air, and water/waste management, and at the end of the session participants clarified their doubts. Mr. L. Karthikeyan, AP/Mech acted as a moderator for the session and delivered vote of thanks for the program.

Totally, there are 86 registrations are received across all major cities of our state and few are from other states also. Out of which 44 participants attended via Google Meet Platform. All the 44 Participants received their certificate after they completed all procedures.

**Sample Certificate**



**Brochure**



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NBA Accredited UG Programs: CSE, EEE, ECE and MECH  
Department of Mechanical Engineering



**EXTRAMURAL LECTURE SERIES (ELS) - NT007**

## HYDROGEN AND ITS APPLICATIONS

Registration Link  
<https://tinyurl.com/Hydrogen-and-its-Applications>



<http://meet.google.com/vbn-dizu-zkh>



Date : June 19, 2022  
(Sunday)  
IST: 03.00 P.M to  
04.00 P.M

**Shri. Rajan Varshney**

---

Deputy General Manager,  
NTPC, Farakka

<p><b>COORDINATOR</b> Dr.J.JABINTH ASST. PROF./MECH</p>	<p><b>CONVENER</b> Dr.P.SURESHKUMAR ASSOC. PROF./MECH</p>	<p><b>PATRON</b> Dr.S.RAJAKARUNAKARAN VICE PRINCIPAL &amp; HEAD /MECH</p>	<p><b>CHIEF PATRON</b> Dr.L.GANESAN PRINCIPAL</p>
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\_\_\_\_\_  
Signature of the Faculty Advisor  
with date affixed with seal



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NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Academic Year 2021 – 2022 (Even Semester)

## Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Smart Applications of IoT for the Community
02.	Programme Theme	Research opportunities
03.	Programme Type	Webinar
04.	Details of resource person	Prof. Mohd Helmy Abd Wahab Principal Research Fellow Advanced Telecommunication Research Center Faculty of Electrical and Electronics Engineering Universiti Tun Hussein Onn Malaysia Malaysia
05.	Mode & Venue / Platform	Google Meet <a href="https://meet.google.com/ebg-zyon-ydg">https://meet.google.com/ebg-zyon-ydg</a>
06.	Date & Duration	20.07.2022 & 1hour 15 minutes
07.	No. of Student Participants	12
08.	No. of Faculty Participants	16
09.	No. of External Participants	4
10.	Expenditure amount (if any)	NIL
11.	Registration Link	<a href="https://tinyurl.com/INT007-SIOT">https://tinyurl.com/INT007-SIOT</a>

### 12. Objective of the Programme:

- To impart knowledge on cutting edge technologies (Smart IoT systems in community applications) to the participants and to upgrade the expertise of the faculty members in mechanical engineering and allied engineering field.

### 13. Detail description of the activity:

Extramural Lecture Series on the topic "Smart Applications of IoT for the Community" was organized by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam on 20.07.2022. The main objective of this ELS is to impart knowledge about cutting edge technologies related to applications of IoT in solving community problem and its benefits. The Resource Person was Prof. Mohd Helmy Abd Wahab, Principal Research Fellow, Advanced Telecommunication Research Center, Faculty of Electrical and Electronics Engineering, Universiti Tun Hussein Onn Malaysia, Malaysia

Dr.S.Godwin Barnabass, ASP/Mech welcomed the participants and Dr.J.Jabinth, AP/Mech delivered the introduction about the resource person. Prof. Mohd Helmy Abd Wahab gave a brief introduction about Internet of Things (IoT) and its current trend in the modern era. He listed the various domains / applications of IoT as follows:

- Building and Home automation
- Manufacturing
- Medical and Healthcare
- Media
- Environmental Monitoring
- Infrastructure management
- Energy management
- Transportation
- Better quality of life for elderly citizens

Towards the second half of the session, the resource person explained how the IoT had improved the quality and life style of people with case examples like Smart weather station, smart parking, etc. Later, he narrated his experience in working on the IoT applications in the University where he is currently associated with. He in detail explained the following where he is having rich experience and knowledge through practical implementation:

- Smart recycle bin as a lab scale prototype
- Recycle bin notification system and location tagging using GSM

He concluded his session with achievements reached through this project. Finally, the session ended with Q&A, where the queries asked by the participants were clarified by the Professor. The vote of thanks was given by Dr.S.Godwin Barnabass, ASP/Mechanical, RIT. The total no. of participants presented in the webinar was 32 including 4 external participants. The overall feedback of the program was good.

14. Banner / flyer of the programme:

**RAMCO INSTITUTE OF TECHNOLOGY**  
North venganalur Village, Rajapalayam - 626 117  
Approved by AICTE, New Delhi, Affiliated to Anna University, NAAC Accredited and ISO 9001:2015 Certified Institution  
Department of Mechanical Engineering

EXTRAMURAL LECTURE SERIES(ELS) - INT008  
SMART APPLICATIONS OF IOT FOR THE COMMUNITY

Research Credentials  
 



**Mohd Helmy Abd Wahab**  
Principle Research Fellow  
Advanced Telecommunication Research Center  
Faculty of Electrical and Electronic Engineering  
Universiti Tun Hussein Onn Malaysia, Malaysia

Date : July 20, 2022  
(Wednesday)  
IST: 02.00 P.M.  
Malaysia Time: 04.30 P.M.

Registration Link : <https://tinyurl.com/INT008-SIOT>

COORDINATOR  
DR.S.GODWIN BARNABAS  
ASSOC. PROF./MECH

CONVENER  
Dr.P.SURESHKUMAR  
ASSOC. PROF./MECH

PATRON  
Dr.S.RAJAKARUNAKARAN  
VICE PRINCIPAL & HEAD /MECH

CHIEF PATRON  
Dr.L.GANESAN  
PRINCIPAL

15. Programme Photographs:

REC Mohd Helmy Bin Abd Wahab is presenting Press Esc to exit full screen

**Domain of IoT** UTHM

- Building and Home automation
- Manufacturing
- Medical and Healthcare systems
- Media
- Environmental monitoring
- Infrastructure management
- Energy management
- Transportation
- Better quality of life for elderly
- ... ..

*You name it, and you will have it in IoT!*

Godwin Barnabas S Arun Kumar Rajase...

Venkatesh R HOD MECH

Mari Selvam Mohd Helmy Bin Ab...

23 others You

ebg-zyon-ydg Track Attendance

Mohd Hameed Bin Abd Wahab is presenting

### Current Solution Practice

Manually bring wastes to the recycling efficiency using outsourcing off source

Manually weight wastes to be converted to equivalent MYR

Godwin Saravanan S Anon Kumar Rajasek...

ARTHUR JEBASTINE Mohd Hameed Bin Abd...

Verbanah B HOB MECH

24 others You

slg-yyan-ytg Track Attendance

Mohd Hameed Bin Abd Wahab is presenting

Press [Esc] to end full screen

### PHASE 1: Smart Recycle Bin - Solution

Phase 1  
 Research University  
 Funding - Product  
 Development Grant  
 Proof of Concept  
 Patented process

Mohd Hameed Bin Abd Wahab et al. (2014) Smart Recycle Bin: A Conceptual Approach to Managing Waste With Integrated Web-based System. *International Conference on Intelligent Information Technology and Applications*, 27-30 Oct 2014, Eagan, USA

Godwin Saravanan S Anon Kumar Rajasek...

ARTHUR JEBASTINE Mohd Hameed Bin Abd...

Verbanah B HOB MECH

24 others You

slg-yyan-ytg Track Attendance

Mohd Hameed Bin Abd Wahab is presenting

Press [Esc] to end full screen

### Recycle Bin Notification System and Location Tagging (using GSM)

- Innovation Competition
- Consolation Prize, Innovate Malaysia Design Competition 2016, 9 August 2016, Equatorial Hotel, Penang
- 2<sup>nd</sup> Prize, IEEE Final Year Project Competition 2016, Track Computer
- GOLD Medal at International Innovation and Design Exposition 2016 (IIDEX 2016), 25 - 27 September 2016, UTM Shah Alam, Selangor

Publication  
 Mohd Hameed Bin Abd Wahab, Nur Shila Othman, Redzi Amber, Muhamad Hafeez Jabbar, Mohd Razali Teremi, Aashiqe Ahsani Redzi (2018). GSM-based Notification System for Smart Recycle Bin. *International Journal of Machine Learning and Computing*, Vol. 8, Issue. 3, 493 - 500

Godwin Saravanan S Anon Kumar Rajasek...

ARTHUR JEBASTINE Mohd Hameed Bin Abd...

Verbanah B HOB MECH

24 others You

slg-yyan-ytg Track Attendance

*Jain*  
 Prepared by: *slg-yyan-ytg*  
 21/12/20

*slg-yyan-ytg*  
 Approved by



# RAMCO INSTITUTE OF TECHNOLOGY

North venganalur Village, Rajapalayam - 626 117

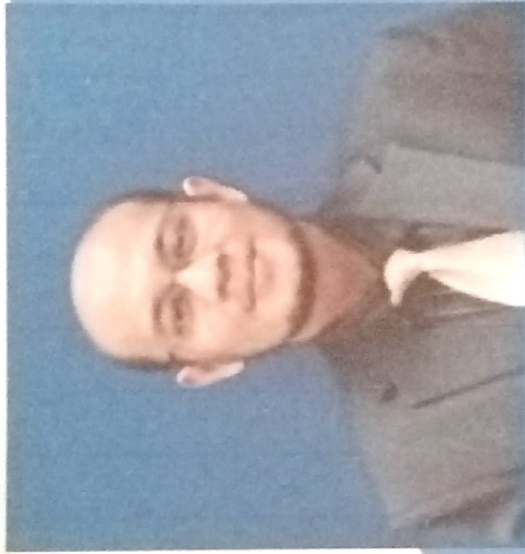
Approved by AICTE, New Delhi, Affiliated to Anna University, NAAC Accredited and ISO 9001:2015 Certified Institution

Department of Mechanical Engineering

## EXTRAMURAL LECTURE SERIES(ELS) - INT008

### SMART APPLICATIONS OF IOT FOR THE COMMUNITY

Research Credentials



**Mohd Helmy Abd Wahab**

Principle Research Fellow  
Advanced Telecommunication Research Center  
Faculty of Electrical and Electronic Engineering  
Universiti Tun Hussein Onn Malaysia, Malaysia

Date : July 20, 2022  
(Wednesday)  
IST: 02.00 P.M.  
Malaysia Time:04.30 P.M.

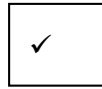
Registration Link : <https://tinyurl.com/INT008-SIOT>

COORDINATOR  
DR.S.GODWIN BARNABAS  
ASSOC. PROF./MECH

CONVENER  
DR.P.SURESHKUMAR  
ASSOC. PROF./MECH

PATRON  
DR.S.RAJAKARUNAKARAN  
VICE PRINCIPAL & HEAD /MECH

CHIEF PATRON  
DR.L.GANESAN  
PRINCIPAL



# The Institution of Engineers (India)

(ESTABLISHED 1920, INCORPORATED BY ROYAL CHARTER 1935)

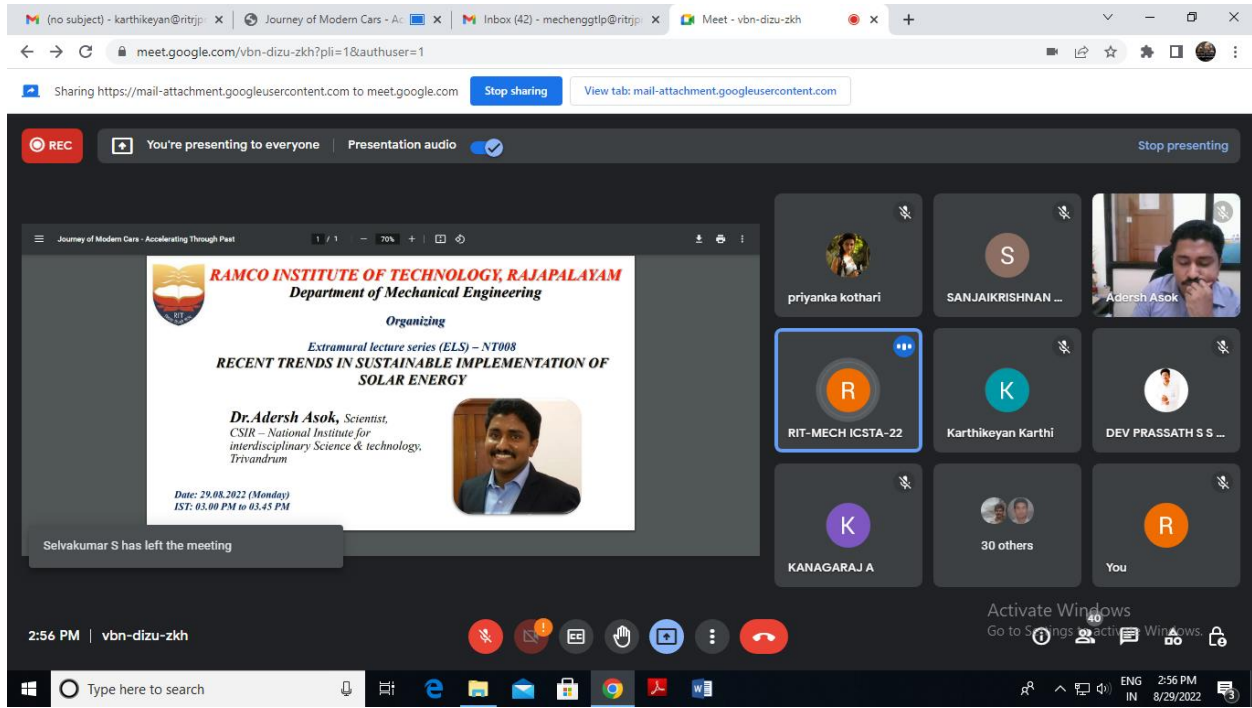
8 GOKHALE ROAD, KOLKATA – 700 020

(Lecture /Paper presentation/Seminar//Workshop/Conference/Technical/Project Demonstration/Model competition/Poster Competition/Group Discussion/Technical Quiz/Aptitude Test/Technical Visit/Film show/Display of Technical Information/Short term course)

**Title /Theme: - Extramural Lecture Series (ELS) - NT008 “Recent Trends in sustainable Implementation of Solar Energy”**

**Date : 29.08.2022** **Duration: 1 Hour (03.00 PM to 04.00 PM)**  
**No. of Students and Faculties Participated: 85 participants**

**Photographs with caption:**  
*(Activity reports not supported by photographs shall not be considered for award )*





**Recent Trends in Sustainable Implementation of Solar Energy**

Extramural Lecture Series: Department of Mechanical Engineering, Ramco Institute of Technology

"The future depends on what you do in the present"  
- Mahatma Gandhi

Dr. Adersh Asok, Scientist  
CSIR-National Institute for Interdisciplinary Science and Technology  
Council of Scientific and Industrial Research (CSIR)  
Ministry of Science and Technology, Govt. of India

2:59 PM | vbn-dizu-zkh

**Future of Solar Energy**

The price of electricity from solar declined by 89% in these 10 years.

In 1965 it was \$1,865/W

The price of onshore wind electricity declined by 70% in these 10 years.

Source: <https://ourworldindata.org>

With each doubling of installed capacity the price of solar modules dropped on average by 20.2%. This is the learning rate of solar modules.

More deployment  
Demand increases  
Prices fall  
Competitive in new markets

the price of solar modules declined by 99.6% since 1976

3:01 PM | vbn-dizu-zkh



**Chapter 3**

Roadmap for BIPV implementation, Indian stakeholder map and SWOT analysis

3.2 Stakeholders' map

Perspective: Government policies, Initiatives and Business models

Opportunities: Multi-functionality and cost reduction

BIPV Industrial Sphere: Technology readiness, Supply chain and Certification

Innovation landscape: Research projects & Engagement of international communities

Defining stakeholder involvement: Need for stakeholder awareness, extensive project planning & execution

3:21 PM | vbn-dizu-zkh

**Details:**

**Chief Guest/ Guest of Honor: Nil**

**Designation: Nil**

**Speaker 1: Dr. Adersh Asok,**

**Designation/Organization: Scientist, CSIR - National Institute for Interdisciplinary Science & Technology, Trivandrum**

**Report**

*(maximum 250 words)*

The Department of Mechanical Engineering organized Extramural lecture series (ELS)- NT008 - Online webinar titled “**Recent Trends in sustainable Implementation of Solar Energy**” on 29.08.2022 for all the faculty members (Internal & External) in various Engineering Colleges.

Mr.L.Karthikeyan, AP/Mech delivered welcome address and Dr.J.Jabinth, AP/Mech introduced the resource person of this event. He detailed about the schedule of event.

The resource person explained the following Concept

- Solar energy utilization statistic upto 1976
- status of Indian PV capacity and Tariffs
- Various sustainable ways to forward in CSIR intervention
- Agrivoltaics Concept
- State & central government schemes related to Agriculture.
- How to penetrate PV in the building sectors
- Green Building revolution & role of BIPV
- Roadmap for BIPV, Indian stake holder map & SWOT analysis.



- Case studies
- Solar potential analysis for BIPV
- Indian BIPV report 2022 status & road map
- R&D competence of CSIR -NIIST

At the end of the session participants clarified their doubts. Mr. L. Karthikeyan, AP/Mech acted as a moderator for the session and Dr.V.Sivakumar, ASCP/ Mech, delivered vote of thanks for the program.

Totally, there are 135 registrations are received across all major cities of our state and few are from other states also. Out of which 85 participants attended via Google Meet Platform. All the 85 Participants received their certificate after they completed all procedures.

### Sample Certificate



**RAMCO INSTITUTE OF TECHNOLOGY**  
Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai  
An ISO 9001:2015 Certified, NBA Accredited (CSE,ECE,EEE & MECH) and NAAC Accredited Institution

**Certificate of Participation**

This is to certify that **Prabu ram G, AP(Sr.Gr)** of **Ramco Institute of Technology** has actively participated in the Extramural Lecture Series NT-008 “Recent Trends in Sustainable Implementation of Solar Energy” conducted on **29.08.2022** by Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam 626117.

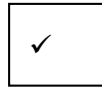
**“We wish you all success in your future endeavors”**

1K6QXQ-CE000079

This is an electronically generated certificate hence does not require signature



Made for free with Certify'em



**Brochure**

**RAMCO INSTITUTE OF TECHNOLOGY**  
Approved by AICTE, New Delhi, Affiliated to Anna University,  
Accredited by NAAC & An ISO 9001:2015 Certified Institution  
NBA Accredited UG Programs: CSE, EEE, ECE and MECH  
Department of Mechanical Engineering  
EXTRAMURAL LECTURE SERIES(ELS) - NT008



**RECENT TRENDS IN SUSTAINABLE IMPLEMENTATION OF SOLAR ENERGY**

Registration Link  
<https://tinyurl.com/Recent-Trends-Solar-Energy>  
  
<http://meet.google.com/vbn-dizu-zkh>



Date : August 29, 2022  
(Monday)  
IST: 03.00 P.M to  
03.45 P.M

**Dr. Adersh Asok**  
Scientist,  
CSIR - National Institute for Interdisciplinary  
Science & Technology,  
Trivandrum

<b>COORDINATOR</b> Dr.J.JABINTH ASST. PROF./MECH	<b>CONVENER</b> Dr.P.SURESHKUMAR ASSOC. PROF./MECH	<b>PATRON</b> Dr.S.RAJAKARUNAKARAN VICE PRINCIPAL & HEAD /MECH	<b>CHIEF PATRON</b> Dr.L.GANESAN PRINCIPAL
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\_\_\_\_\_  
Signature of the Faculty Advisor  
with date affixed with seal

**Department of Artificial  
Intelligence and Data Science**

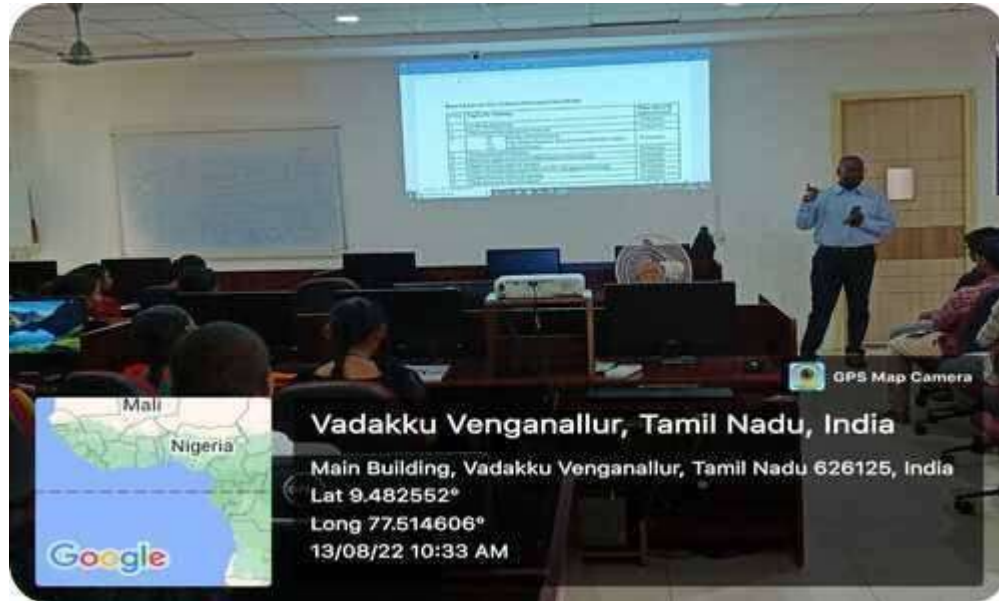
# DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

## WORKSHOP AND SEMINARS

One day seminar on **Trend and Opportunities of Artificial Intelligence and Data Science** was held at Ramco Institute of Technology, Department of Artificial Intelligence and Data Science on 25th August, 2022. Dr.M.Kaliappan, Professor and Head welcomed the gathering, and Associate Professor gave an introduction about resource person. There were 62 students who participated in the seminar. **Mr. Ahamed Khalid, senior vice President & Head, Imarticus Learning Pvt Ltd, Chennai** was invited as a key note speaker and his special seminar on Trend and Opportunities of Artificial Intelligence and Data Science. He delivered a lecture on basics of data science. Also, he shared the role of jobs related to Artificial Intelligence and Data Science. All the students actively participated in the seminar in an interactive manner.



Department of Artificial Intelligence and Data Science organized a one-day technical workshop on Data Science for II Year Artificial Intelligence and Data Science students on 13.08.2022. Dr.M.Kaliappan, Professor and Head welcomed the gathering, and Dr.S.Vimal, Associate Professor gave an introduction about resource person. The resource person of the program is **Mr.Durgesh R.K, Senior Project Engineer, Wipro, Chennai**. The resource person starts with an Ice Breaking Session about the job role of Artificial Intelligence and Data Science engineer and the program has covered with basics of Data Science, Tools used in Data Sciences, and a demo on Real time examples in Data Science. The workshop has been ended at 4.00 p.m with a thanks note.



Department of Artificial Intelligence and Data Science organized a **workshop on Tour of Arduino program with IoT** for I Year AI&DS on 04.05.2022. Dr.S.Vimal, Associate Professor welcomed the gathering gave an introduction about resource persons. The resource persons of the program is Dr. Dr.A.Azhagu Jaisudhan Pazhani , Associate Professor, Mr.P.Gunasekaran, Assistant Professor, Department of Electronics and Communication Engineering, Ramco Institute of Technology. They gave the hands on session regarding Arduino program with IOT. Around 58 students actively participated. Finally, the session was ended with Vote of Thanks by Ms.G.Megha, 1st Year student of AI&DS.



Department of Artificial Intelligence and Data Science organized **One Day Workshop on Web Development** for I Year Artificial Intelligence and Data Science students on 15.02.2022. Dr.M.Kaliappan, Professor and Head welcomed the gathering and Dr.S.Vimal, Associate Professor gave an introduction about resource person. The resource person of the program is **Mr.Manikandan, Director, Geon Logix Private Limited, Madurai.** the program has been covered with basics of CSS and demo on creating a small webpage application. The workshop has been ended at 4.00 p.m with a thanks note.



# **Department of Mathematics**

## DECLARATION

The above information provided by me is true to the best of my knowledge. I agree to abide by the rules and regulations governing the Online Faculty Development Training Programme. If selected, I shall attend the programme for the entire duration. I also undertake the responsibility to inform the coordinator in advance in case I am unable to attend the course.

Date:

Place:

Signature of the Applicant

Signature of the Head of the Institution  
with Seal

## MAILING ADDRESS

The Co-ordinator,  
Online Six Day FDTP on MA8351  
Discrete Mathematics,  
Department of Mathematics,  
Ramco Institute of Technology,  
Rajapalayam – 626 117

Phone : 04563 233416  
Mobile : 9486580261, 9942748320  
E-mail ID : [basarikodi@ritrjpm.ac.in](mailto:basarikodi@ritrjpm.ac.in)

## REGISTRATION FORM

Online Six Day Faculty Development Training  
Programme  
On  
MA8351 Discrete Mathematics

28-06-2021 to 03-07-2021

Name :

DOB & Age :

Gender :

Designation :

Department :

Institution :

Institution affiliated to Anna University: Yes/No

Educational  
Qualification:

Teaching  
Experience :

Address for Communication:

Mobile :

E-mail :

Signature of the Applicant

(Applicant may also use photocopy of the above format)

Online - Six Day FDTP  
ON  
MA8351  
DISCRETE MATHEMATICS

28.06.2021 to 03.07.2021

## REGISTRATION FORM

Coordinators  
Dr. K. Basari Kodi  
Dr. T. Manimaran



Sponsored by

Centre for Faculty Development  
Anna University  
Chennai - 25

&

Organized by



DEPARTMENT OF MATHEMATICS  
RAMCO INSTITUTE OF TECHNOLOGY  
Rajapalayam – 626 117  
Tamil Nadu

## **ABOUT THE INSTITUTE**

Ramco Institute of Technology is founded with a vision to impart high quality engineering education at an affordable cost. Under the able guidance of our Founder Chairman Shri P. R. Ramasubrahmaneya Rajha, son of Shri P. A. C Ramasamy Raja and our present Chairman Shri. P. R. Venketrama Raja, distinguished professionals, academicians and education experts, we continually aim to revolutionize the learning environment by creating an enviable knowledge pool of engineering and technology graduates who are attuned to the current industry requirements. Being part of the Ramco Group, which is well known for its qualitative and innovative brands not only in India but across the world, we are looked upon to set high standards in the education sector. True to its legacy, RIT has embarked on a mission to empower students with high-quality, accessible yet world-class engineering education and prepare these young minds for lifelong learning by creating and disseminating appropriate knowledge.

## **ABOUT THE DEPARTMENT**

The Department of Mathematics provides an excellent base to Engineering and Technology courses and appeals to students with a variety of different interests to acquire a strong background for use in future career. All the Faculty members of our department are well qualified, experienced and dedicated.

## **OBJECTIVE OF THE PROGRAMME**

The objective is to improve the teaching skills and knowledge of the teachers in the course MA8351 Discrete Mathematics.

## **RESOURCE PERSONS**

- Dr. Durga Prasad Challa , IIT, Tirupathi.
- Dr. M. Rajesh Kannan, IIT, Kharagpur.
- Dr. D. Easwaramoorthy, VIT University, Vellore.
- Dr.G.Jothilakshmi, Thiagarajar College of Engineering, Madurai.
- Dr.S.Santhakumar, Amrita School of Engineering, Coimbatore.
- Dr.S.Kalyani, Kamaraj College of Engineering and Technology, Madurai.

## **ELIGIBILITY**

This Programme is addressed to the faculty members of constituent colleges and affiliated colleges of Anna University.

## **REGISTRATION**

- No registration fee.
- Selected candidates will be intimated by e-mail only. Confirmation of participation is to be made by sending reply e-mail.

## **HOW TO APPLY**

The scanned copy of completed registration form can be submitted through the google form link <https://tinyurl.com/FDTP-on-MA8351---DM>

## **SELECTION CRITERION**

Selection of the participants will be based on the first come first serve basis and it is limited to 50 (Fifty only). Priority will be given to the younger faculties. Coordinator's decision will be final in the selection of the candidates.

## **PROGRAMME CERTIFICATE**

Certificates will be issued to the candidates who attend the programme in full, by the Centre for Faculty Development, Anna University, Chennai-25.

## **ORGANIZING COMMITTEE**

**CHIEF PATRON** : Vice Chancellor  
Anna University

**PATRON** : Dr. Ranees Vadamuthu  
Registrar  
Anna University

**CHAIR** : Dr. D.Sridharan  
Director, CFD

Dr. V. Adaikkalam  
Addl Director, CFD

**CO-CHAIR** : Dr. L. Ganesan,  
Principal  
Ramco Institute of  
Technology

Dr. K. Basari Kodi  
Dept. of Mathematics

**Co-ordinators** : Dr. K. Basari Kodi  
Professor and Head  
Dept. of Mathematics

Dr. T. Manimaran  
Associate Professor  
Dept. of Mathematics

**Organizing Department** :  
Department of MATHEMATICS

## **IMPORTANT DATES:**

**Submission of Application** : 18<sup>th</sup> June 2021

**Intimation of Selection** : 20<sup>th</sup> June 2021

**Confirmation by Participants**: 23<sup>rd</sup> June 2021



# RAMCO

## INSTITUTE OF TECHNOLOGY

North Venganallur Village, Rajapalayam - 626 117

Approved by AICTE, New Delhi, Affiliated to Anna University  
Accredited by NAAC & An ISO 9001:2015 Certified Institution

### DEPARTMENT OF MATHEMATICS

ORGANIZES

## Online Six-Day Faculty Development Training Program on MA8351 Discrete Mathematics

### CHIEF PATRON

Vice Chancellor,  
Anna University

### PATRON

Dr. Ranee Vedamuthu,  
Registrar,  
Anna University.

### CHAIR

Dr. D.Sridharan,  
Director, CFD.  
Dr. V. Adaikkalam,  
Addl Director, CFD.

### CO-CHAIR

Dr. L. Ganesan,  
Principal.  
Dr. K. Basari Kodi,  
Professor and Head,  
Dept. of Mathematics.

### Co-ordinators

Dr. K. Basari Kodi,  
Professor and Head,  
Dr. T. Manimaran,  
Associate Professor,  
Dept. of Mathematics

### RESOURCE PERSONS



Dr. Durga Prasad Challa ,  
IIT, Tirupathi.  
Dr. M. Rajesh Kannan,  
IIT, Kharagpur.  
Dr. D. Easwaramoorthy,  
VIT University, Vellore.  
Dr.G.Jothilakshmi,  
Thiagarajar College of Engineering, Madurai.  
Dr.S.Santhakumar,  
Amrita School of Engineering, Coimbatore.  
Dr.S.Kalyani,  
Kamaraj College of Engineering and Technology,  
Madurai.

NO  
Registration  
Fee

### Who Can Apply

This Programme is addressed to the faculty members of constituent colleges and affiliated colleges of Anna University.

### HOW TO APPLY

The scanned copy of completed registration form can be submitted through the google form link

<https://tinyurl.com/FDTP-on-MA8351--DM>

### Registration form

<https://cutt.ly/qbA1jmz>

Contact :9486580261, 9942748320

# International Conference On Analysis And Applied Mathematics 2022 (ICAAM-2022)

Department of Mathematics of Ramco Institute of Technology, Rajapalayam and Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi organized the **International Conference on Analysis and Applied Mathematics 2022 (ICAAM-2022)** during 26-28, April 2022. Received more than 200 research papers from various states and 166 papers were selected for presentation. The conference was conducted online and offline mode.



The Department of Mathematics, Ramco Institute Technology, conducted a **Hands-on Workshop on Software in Mathematics** for the students of Rajapalayam Rajus College on August 18th, 2022. About 120 students actively participated in the event. Faculty members of the Mathematics department gave the training to the students.



# **Department of Physics**

**RAMCO INSTITUTE OF TECHNOLOGY  
RAJAPALAYAM**

**Webinar on “Studies on Our Nearest Star-Sun using Space Telescopes”**

**Department of Physics**

**Technical Report**

Date:22.07.2021

Time : 10.30 am to 11.30 pm

Department of Physics of Ramco Institute of Technology, Rajapalayam organised a webinar on “**Studies on Our Nearest Star-Sun using Space Telescopes**” on 22 July 2021.

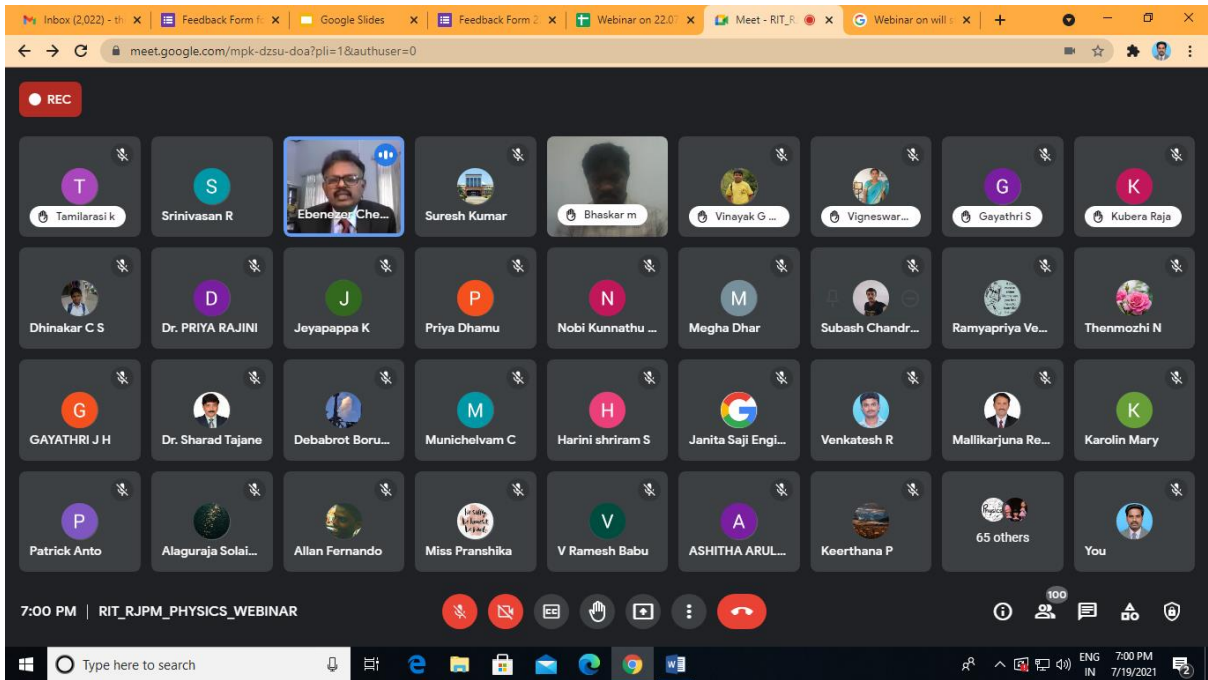
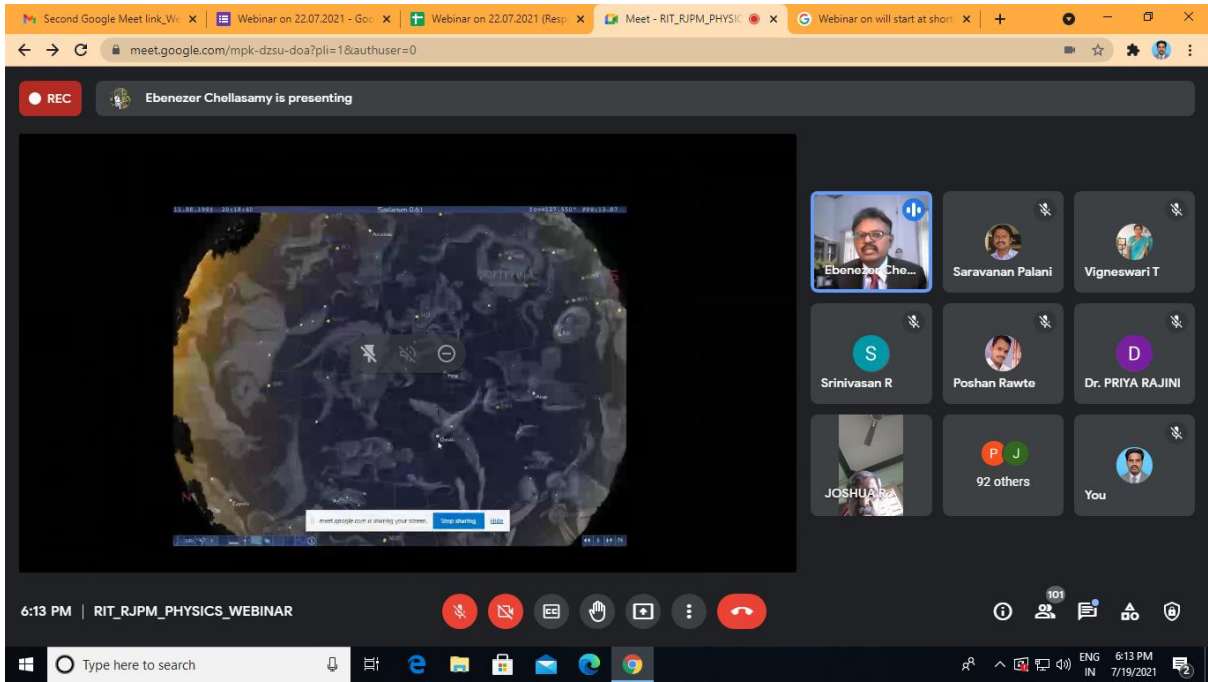
This webinar session was handled by **Dr. Ebenezer Chellasamy, MS(IISc), Ph.D.,, Resident Scientist, Kodaikanal Solar Observatory, Indian Institute of Astrophysics, Kodaikanal.** This program was conducted through Google meet. Dr.T.Vigneswari AP(Sr.Gr) & Head i/c introduced the chief guest.

Scientist Dr. Ebenezer Chellasamy, began by introducing the Milky Way galaxy and explaining recent findings on the sun and its atmosphere. In the following section, he described the radio solar astronomy research facility at the Indian Institute of Astrophysics. For present students, he also emphasised the future scope of research in the subject of astrophysics.

Nearly **225** participants actively participated in this webinar. Among these, more than **135** participants from Tamilnadu, **67** participants from other states like Karnataka, Maharashtra, Mathya Pradesh, Andhra Pradesh, kerala and Jammu and **23** RIT faculty members participated.

E-certificates were issued to all the participants.

The technical part of this webinar was handled by Dr.P.Thiruramanathan AP, Physics Department. Dr.R.Srinivation, AP department of physics moderated the entire session. Finally, the webinar ended with the vote of thanks which was proposed by Dr.K.Jeyapappa, AP, Physics Department.





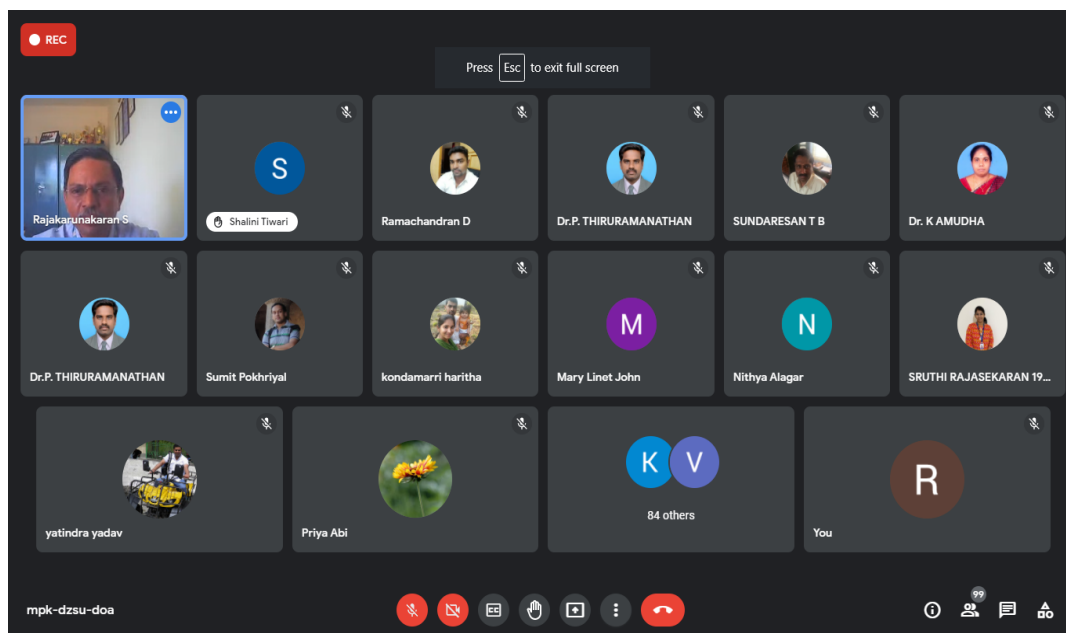
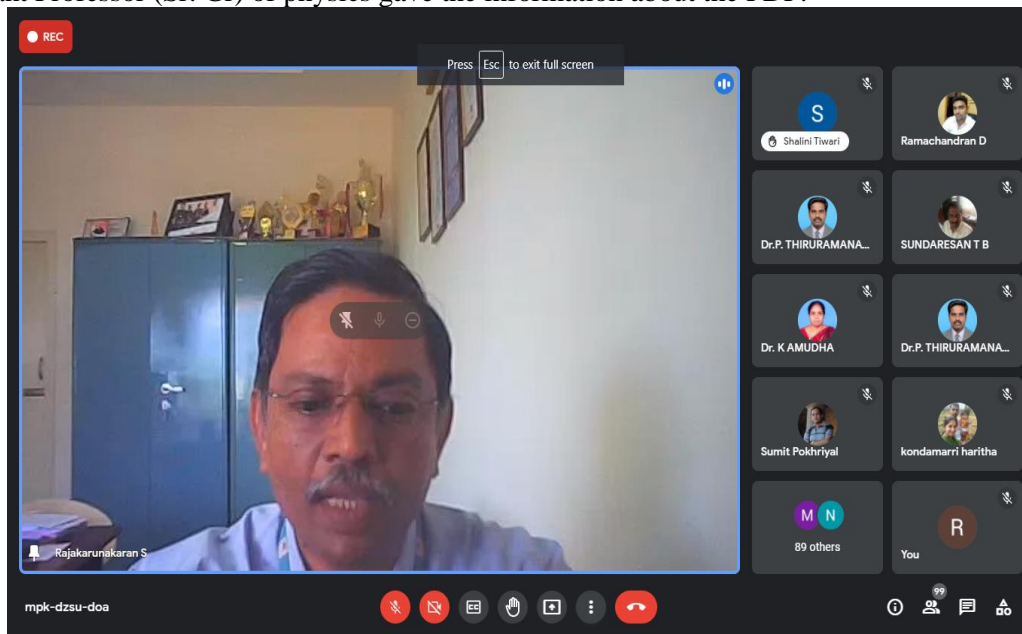
## One Week Online Faculty Development Program on Synthesis, Characterization and Applications of Novel Materials (02.08.2021 - 06.08.2021)

### Inauguration

**Date: 02.08.2021**

**Time: 9.30 AM**

One Week Online faculty development program on “Synthesis, Characterization and Applications of Novel Materials” started with prayer song. Dr. O. Senthilkumar, Associate Professor of chemistry welcomed all the participants. Presidential address was given by Dr. S. Rajakarunakaran, Vice Principal and Head, Department of Mechanical Engineering of our college. Dr. T. Vigneswari, Assistant Professor (Sr. Gr) of physics gave the information about the FDP.



# DAY-I

Date: 02.08.2021

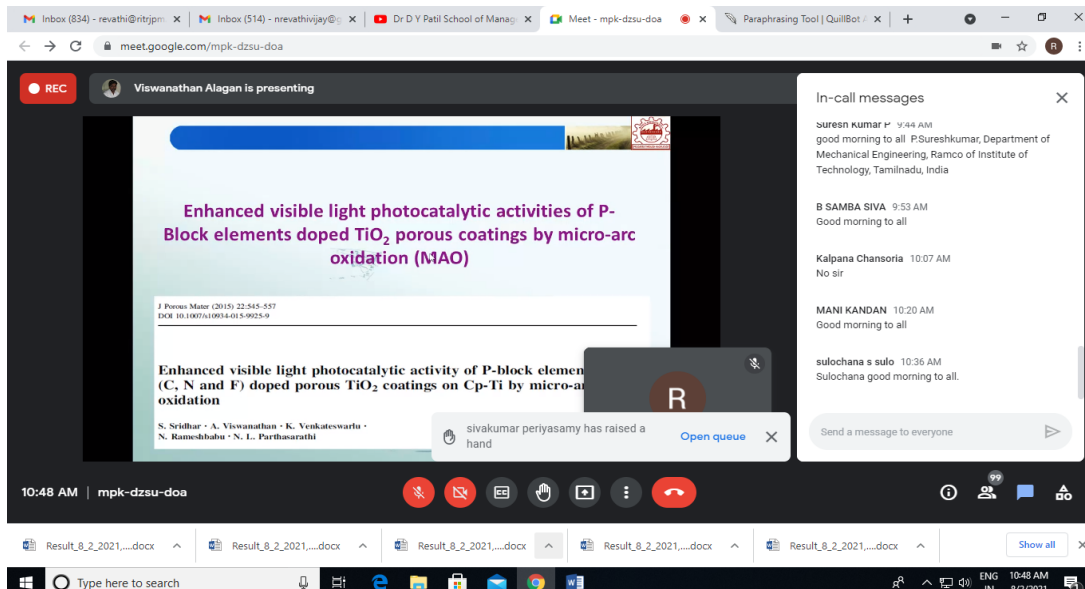
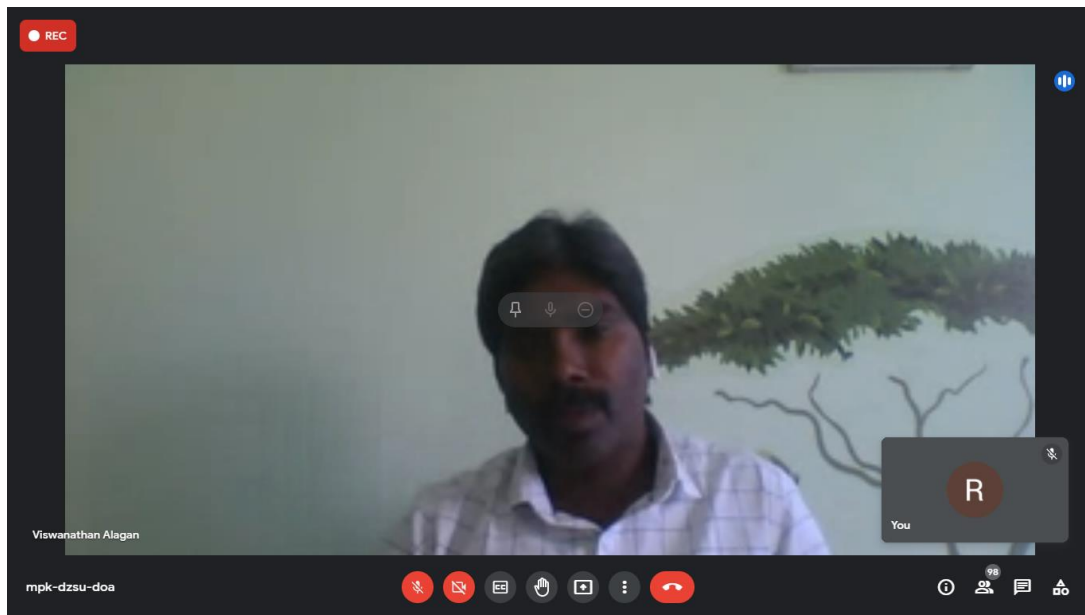
Time:10.00 AM – 11.00 AM

Title of the Talk: **Heterogeneous Nanomaterials for Visible Light Photocatalytic Applications**

Resource Person:

Dr. A. Viswanathan,  
Assistant Professor/Dept of Physics, Anna  
University-BIT Campus, Tiruchirappalli

Dr. A. Viswanathan delivered a lecture on the topics like as nanomaterials, synthesis of nanomaterials, mesoporous coating by micro-arc oxidation and photocatalytic applications of heterogeneous nanomaterials. He explained about the fundamentals of nanomaterials and synthesis of nanomaterials in detail manner. He discussed the photocatalytic applications of nanomaterials with case studies. Finally, he ended his lecture with new ideas to the participants. He kindly replied the answers for the queries raised from participants. His session is very for all the participants to understand the photocatalytic applications of nanomaterials.



Date: 02.08.2021

Time: 02.00 PM – 03.00 PM

Title of the Talk: **Advanced materials for High energy density secondary Batteries**

Resource Person: Dr. Prasada Rao Talakonda  
Sr. Battery Scientist,  
Paraclete Energy, Ann Arbor,  
Michigan, United States

He discussed about high energy density secondary batteries with respect to electrical vehicle applications. He started his talk with the noble prize winners in chemistry (2019) and pointed out the efforts on development of Li ion battery. He discussed about the need of energy storage devices, DOE goals for 2022 in electrical vehicle and Energy conversion in Li ion battery. He also discussed about the ways to improve the electrochemical performance of  $\text{Li}_2\text{FeSiO}_4$  (LFS) materials, its synthesis by solvothermal method, including its characterization by XRD, Conductivity and BET Surface area calculations, Electrochemical measurements, charging/discharging studies and Electrochemical impedance analysis, etc., Then he discussed about the silicon based anodic materials. He pointed about the intercalation and de-intercalation with graphite. He also mentioned about the importance of solid electrolyte interphase in the stability of Li battery. Finally, he discussed about the advantages and limitations of Lithium-Sulfur batteries, Li-S Pouch Cells assembly steps and testing protocols, etc.,

The screenshot shows a Google Meet window with a presentation slide. The slide is titled "Nobel Prize winners in Chemistry 2019" and features three portraits of the winners: John B. Goodenough (USA), M. Stanley Whittingham (UK), and Akira Yoshino (JP). Below the portraits, it states: "For years of efforts on development of Li ion batteries!" and lists their contributions: Whittingham - First rechargeable lithium battery with a Cathode as  $\text{TIS}$ , Li-Metal and  $\text{LiClO}_2$ ; Goodenough - The discovery of oxide cathodes ( $\text{LiCoO}_2$ ); Akira Yoshino - First rechargeable lithium-ion battery with  $\text{LiCoO}_2$  and carbon-based anode (Graphite). The meeting interface shows a grid of participants, with Prasada Rao Talakonda as the active speaker. The system tray at the bottom indicates the time is 2:07 PM on 8/2/2021.

The screenshot shows a Google Meet window with a presentation slide titled "Electric Vehicles : Tesla Model S". The slide features an image of a Tesla Model S car and a battery pack. The specifications listed are: Battery Pack : 85 kWh; Cell Type : 18650 (NCA chemistry); Single Cell Capacity : 3.2 Ah; Number of Cells : 7104; Nominal Voltage : 3.6 V; Energy Density : 265 wh/kg; Range : 270 miles; Battery Pack Weight : 540 Kg/1200 lb; Battery Voltage : 375 V. The meeting interface shows a grid of participants, with Prasada Rao Talakonda as the active speaker. The system tray at the bottom indicates the time is 2:12 PM on 8/2/2021.

## DAY-II

**Date: 03.08.2021**

**Time:10.00 AM – 11.00 AM**

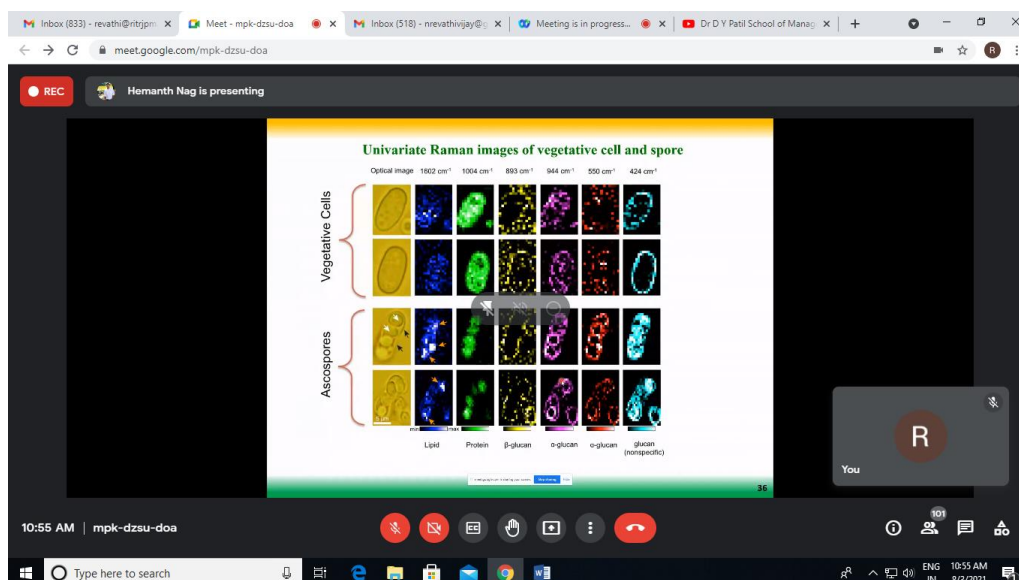
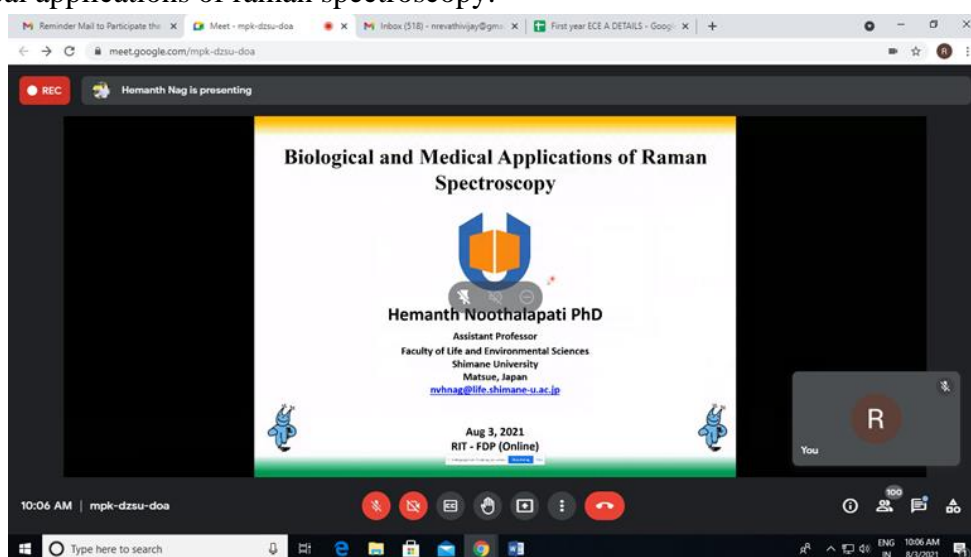
**Title of the Talk:**

**Biological and Medical Applications of Raman Spectroscopy**

**Resource Person:**

Dr. Hemanth Noothalapati  
Assistant Professor  
Raman Center for Medical and Biological Applications,  
Shimane University, Japan

Dr. Hemanth Noothalapati delivered a lecture on the topic “Biological and Medical Applications of Raman Spectroscopy”. He explained about the fundamentals of raman spectroscopy with principle and experiment in detail manner. nanomaterials and synthesis of nanomaterials in detail manner. He discussed the raman spectroscopic facility available at Shimane university. He described the biological applications especially single cell applications of raman spectrum with imaging processes. He explained pharmacokinetics and pharmacodynamics in detail using images. Finally, he ended his lecture with future pharmaceutical using raman spectroscopy. He also showed the Shimane university, their locations and geologically interesting places. He kindly replied the answers for the queries raised from participants. His session is very for all the participants to understand the biological and medical applications of raman spectroscopy.



Date: 03.08.2021

Title of the Talk:

Resource Person:

Time: 02.00 PM – 03.00 PM

## AC Impedance Spectroscopy - an Introduction

Dr. G. Hirankumar  
Assistant Professor,  
Department of Physics,  
Ramakrishna Mission Vivekananda College,  
Mylapore, Chennai

He started with behavior of the material in AC and DC power source. After this, he discussed about the importance of AC impedance theory for characterization of different types materials such as battery and energy materials. He clearly explains the response of a material to an alternating current or voltage as a function of frequency. For characterizing the materials, he discusses the real and imaginary components of an ac current or voltage waveform are defined with respect to some reference waveform. He explains the cole – cole plot for analyzing the materials properties. Finally, He kindly replied the answers for the queries raised by the participants. His session is very useful for all the participants to understand the AC impedance and its applications.

• Fourier transformation allows us to simplify these mathematical treatment of this system.

The above differential equations can be transformed in to

$$I(j\omega) = C \omega j V(j\omega) \text{ and}$$
$$I(j\omega) = V(j\omega)/(L \omega j). \text{ Here } j = \sqrt{-1}$$

• For the case of sine wave excitation as above,

Fourier transforms of voltage  $V(j\omega)$  become  $V_m \pi$  and current  $I(j\omega)$  become  $I_m \pi \exp(\theta j)$  where  $\exp(\theta j) = \cos \theta + j \sin \theta$

FDP-407 2.6 Aug 21 12

### Bode vs Nyquist plots

Nyquist Plots have one major shortcoming. When you look at any data point on the plot, you cannot tell what frequency was used to record that point

FDP-407 2.6 Aug 21 22

## DAY-III

**Date: 04.08.2021**

**Time:10.00 AM – 11.00 AM**

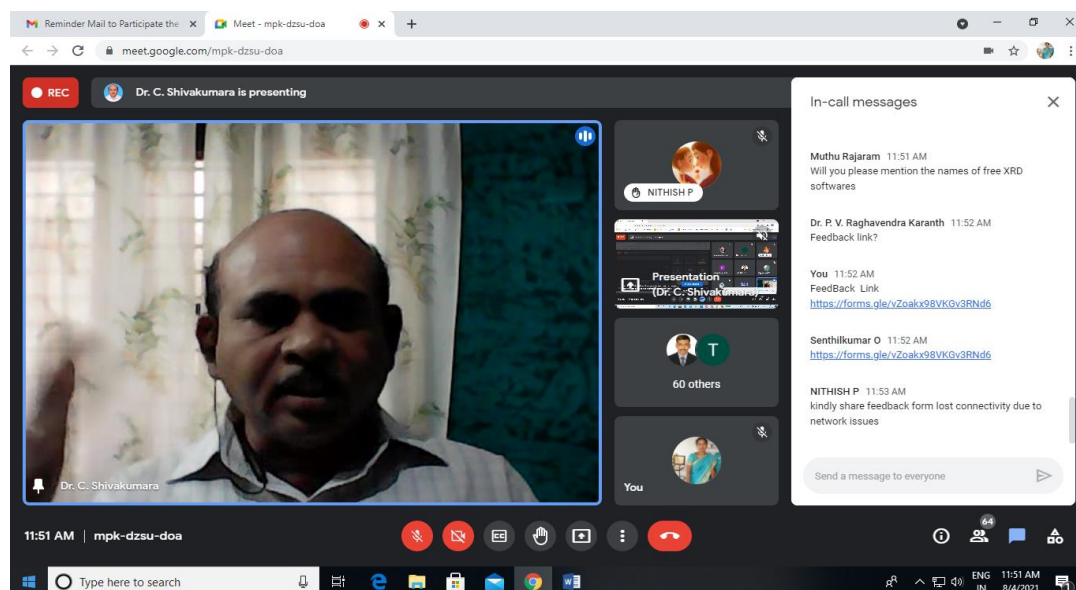
**Title of the Talk:**

**Introduction to X-ray diffraction and its applications in Materials Science**

**Resource Person:**

Dr. C. Shivakumara  
Principal Research Scientist,  
Solid State and Structural Chemistry Unit,  
Indian Institute of Science,  
Bangalore

He first started the presentation with the introduction of materials, types of materials and basic definitions of crystal in very easy manner. Then he discussed why X-ray (not for gamma ray & cosmic ray) is used for the structural analysis and explained the importance of Bragg's law and Debye Scherrer formula in XRD then the differentiated the bulk and nano XRD pattern and various factors affect XRD data. Finally, he explained the effect of calcination time and temperature of various materials and limitation of powdered diffraction. By the end of the session, he answered all the queries asked by the participants. On the whole, this session was very useful for researchers.



**Date: 04.08.2021**

**Time: 02.00PM – 03.00 PM**

**Title of the Talk:**

**An Exciting World of one dimensional Nano-structures**

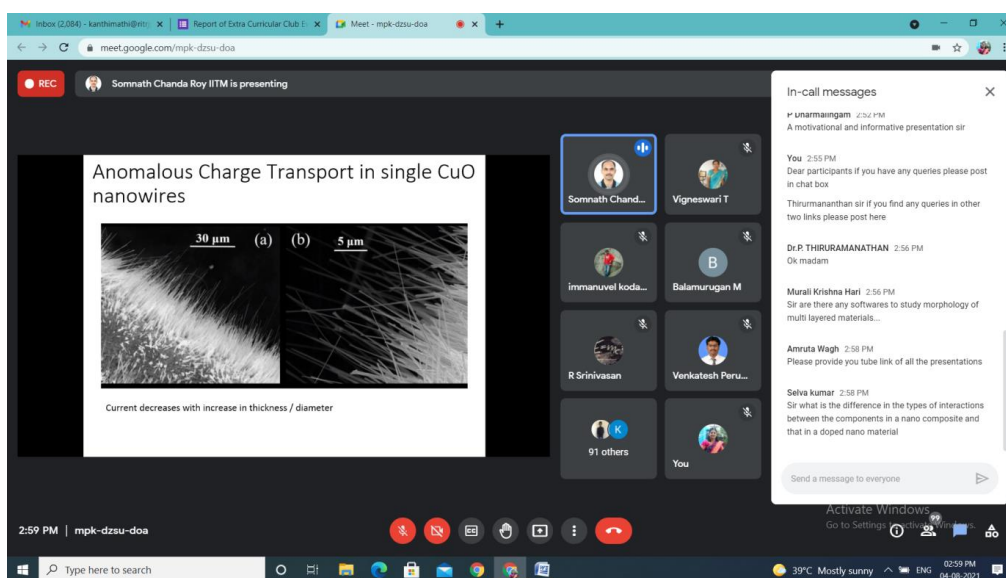
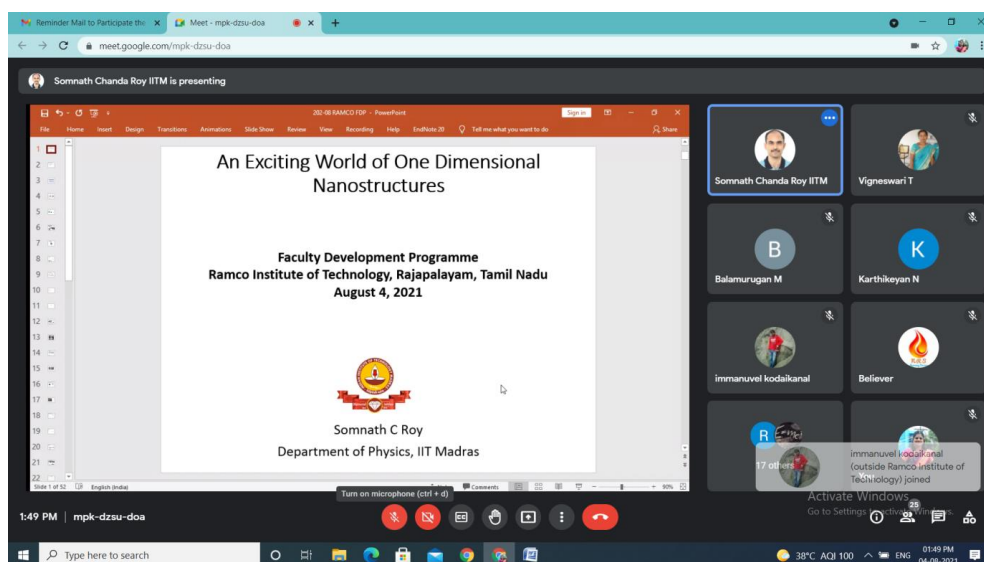
**Resource Person:**

Dr. SomnathChanda Roy,  
Associate Professor, Department of Physics, Indian  
Institute of Technology Chennai

**Moderator :**

Dr.G.Kanthimathi,ASP/Chemistry

Dr. SomnathChanda Roy, Associate Professor, Department of Physics, Indian Institute of Technology Chennai delivered a lecture on the topic “An Exciting World of one dimensional Nano-structures”. He discussed the various methods of synthesis of one dimensional nano structures and its applications. He also discussed the facilities available in his lab and asks them to visit the lab in case of need. He also gave awareness about toxicity of nano materials while handling. In addition he explained the merits and demerits of synthesis of nanomaterials. He patiently answered all the queries asked by the participants. It was really a knowledgeable session.



## DAY-IV

**Date: 05.08.2021**

**Time:10.00 AM – 11.00 AM**

**Title of the Talk:**

**Solar Energy Assisted Purification of Water using  
Transition Metal Oxide Thin Films**

**Resource Person:**

Dr. C. H. Bhosale,  
Professor in Physics,  
Department of Physics,  
School of Science,  
Sanjay Ghodawat University,  
Atigre, Kolhapur (India)

He started with need of water purification for reuse and other applications. He explains the how to avoid the water pollutions. He also discussed the environment of the earth and water sources hugely affected by the water pollution. In next part of the talk, he explains the available solar energy for different usages. He discussed the  $\text{TiO}_2$  thin film and its properties for various applications. He discussed the fabrication of  $\text{TiO}_2$  thin film spray pyrolysis techniques. He explains the photo catalytic activity of  $\text{TiO}_2$  for water purification.

The screenshot displays a Zoom meeting in progress. The main window shows a PowerPoint slide with the following text:  
**Solar Energy Assisted Purification of Water using Nanocrystalline Stratified Metal Oxide Semiconductor Thin Films**  
by  
**C. H. Bhosale**  
Electrochemical Materials Laboratory,  
Department of Physics,  
Sanjay Ghodawat University,  
Atigre-Kolhapur - 416 118  
e-mail ID : [chbosale@gmail.com](mailto:chbosale@gmail.com)  
Mob. 9860297466  
The meeting interface on the right shows a grid of participants: Chandrakant, Dr.V.SASIREKHA, Srinivasan R, Vigneswari T, Vandana Shinde, srinivasan s, Divya Saravanan, Tarun Patodia, Dr. KAMUDHA, and Dr. Sasi Rekha. The bottom status bar indicates the time is 11:25 AM and the meeting ID is mpk-dzsu-doa.

The screenshot displays a Zoom meeting in progress. The main window shows a photograph of a "9 Cell PEC reactor module under sunlight". The reactor is a white rectangular frame containing nine blue circular cells arranged in a 3x3 grid. The meeting interface on the right shows a grid of participants: Chandrakant, Dr.V.SASIREKHA, Srinivasan R, Vigneswari T, Vandana Shinde, srinivasan s, Divya Saravanan, Tarun Patodia, Dr. KAMUDHA, and Dr. Sasi Rekha. A notification at the bottom left of the meeting window states "Dr. Girish Tiwari has left the meeting". The bottom status bar indicates the time is 11:24 AM and the meeting ID is mpk-dzsu-doa.

**Date: 05.08.2021**

**Time:02.00 PM – 03.00 PM**

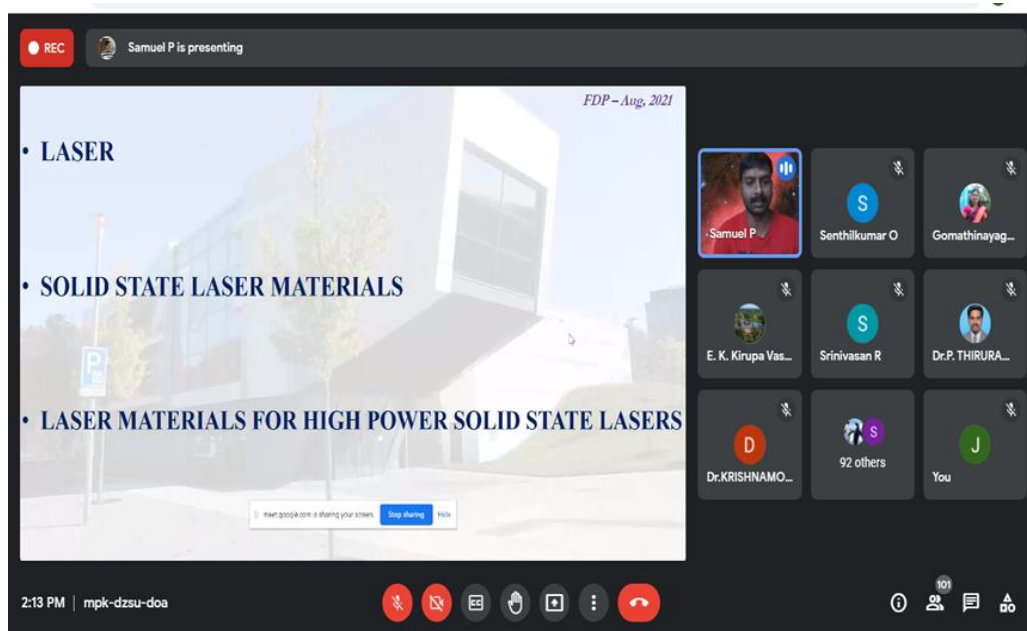
**Title of the Talk:**

**Solid State Laser Materials**

**Resource Person:**

Dr. Samuel Paul David  
Associate Scientist,  
HiLASE Centre,  
Institute of Physics of the Czech  
Academy of Science,  
Czech Republic

Dr. Samuel Paul David delivered a lecture on the topic “ Solid State Laser Materials”. First he explained about the basic laser concepts and types. Then he explained solid state laser materials its advantages and types of dopant ions. He also discussed the development of laser crystal in glass media, single crystal and ceramics. He explained large aperture single crystal for high power laser and transparent ceramics for high energy laser and mentioned the difference between Nd-YAG single crystal and Nd-YAG transparent ceramics. Finally he explained high energy laser demonstration in HiLASE.



## DAY-V

Date: 06.08.2021

Time:10.00 AM – 11.00 AM

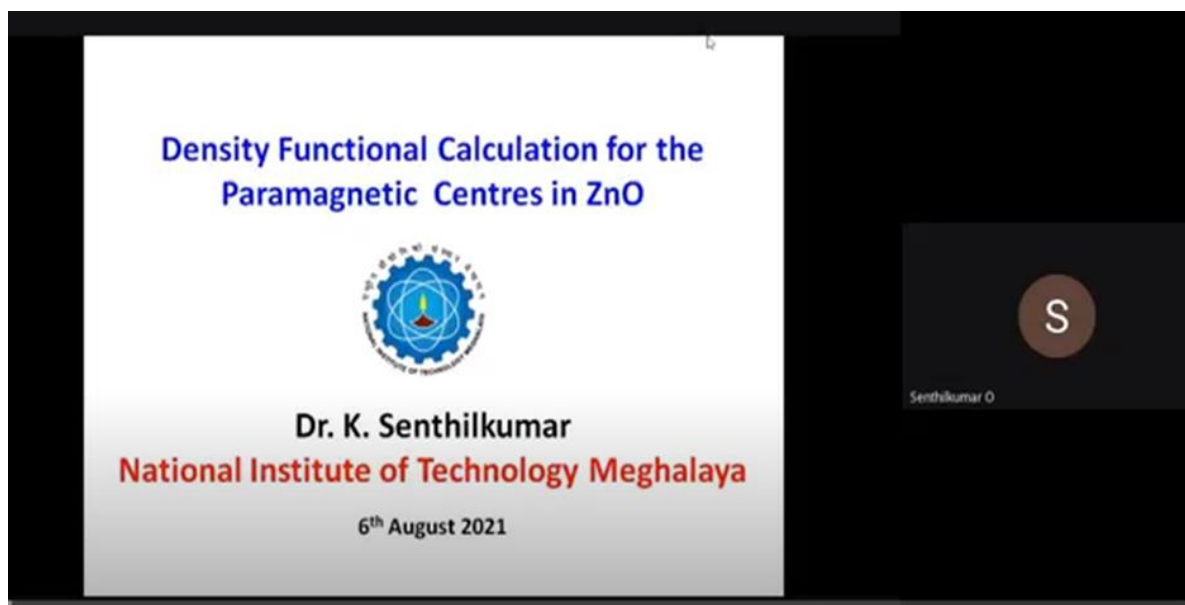
Title of the Talk:

Density Functional calculation for the complex paramagnetic centers in ZnO


Resource Person:

Dr. K. Senthilkumar  
Asst. Professor, Dept. of Physics,  
National Institute of Technology, Meghalaya

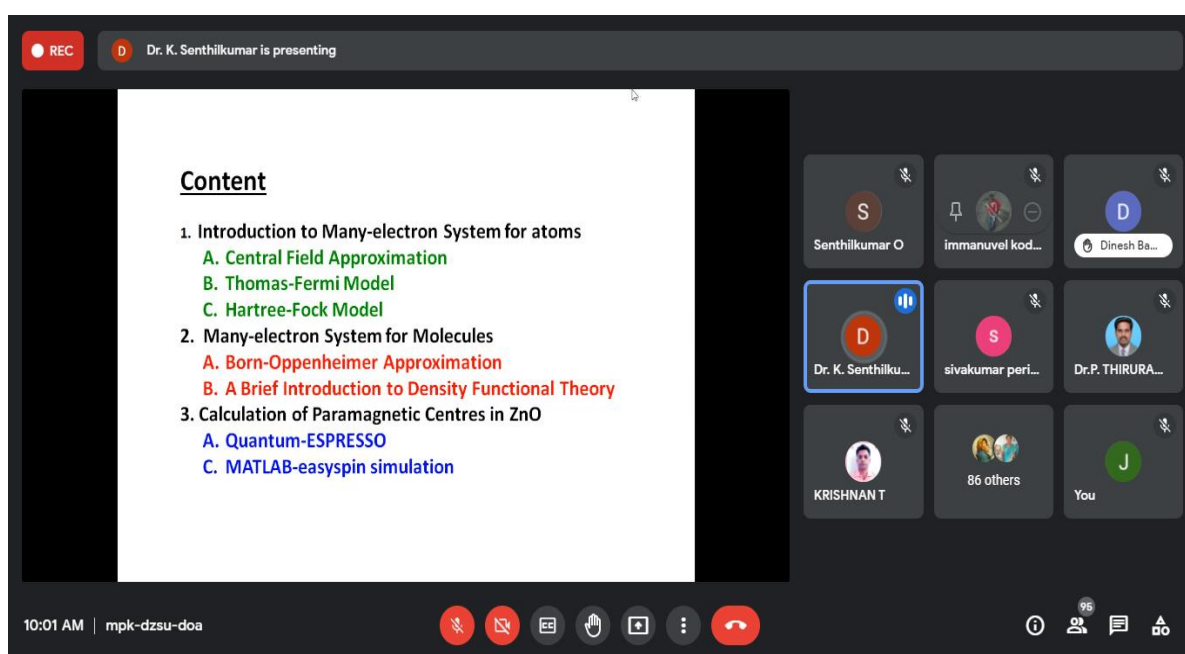
Dr. K. Senthilkumar delivered a lecture on the topic “Density Functional calculation for the complex paramagnetic centers in ZnO”. First he gave the introduction to many electron system for atom. It includes the explanation about the Central field approximation, Thomas-Fermi model and Hartree-Fock model. Then he explained about many electron system for molecules. It includes Born-oppenheimer approximation and brief introduction about Density Functional Theory. Finally he explained about the calculation of paramagnetic centres in ZnO and MATLAB simulations.



Density Functional Calculation for the Paramagnetic Centres in ZnO



Dr. K. Senthilkumar  
National Institute of Technology Meghalaya  
6<sup>th</sup> August 2021



REC Dr. K. Senthilkumar is presenting

Content

1. Introduction to Many-electron System for atoms
  - A. Central Field Approximation
  - B. Thomas-Fermi Model
  - C. Hartree-Fock Model
2. Many-electron System for Molecules
  - A. Born-Oppenheimer Approximation
  - B. A Brief Introduction to Density Functional Theory
3. Calculation of Paramagnetic Centres in ZnO
  - A. Quantum-ESPRESSO
  - C. MATLAB-easyspin simulation

10:01 AM | mpk-dzsu-doa

Date: 06.08.2021

Time: 02.00 PM – 03.00 PM

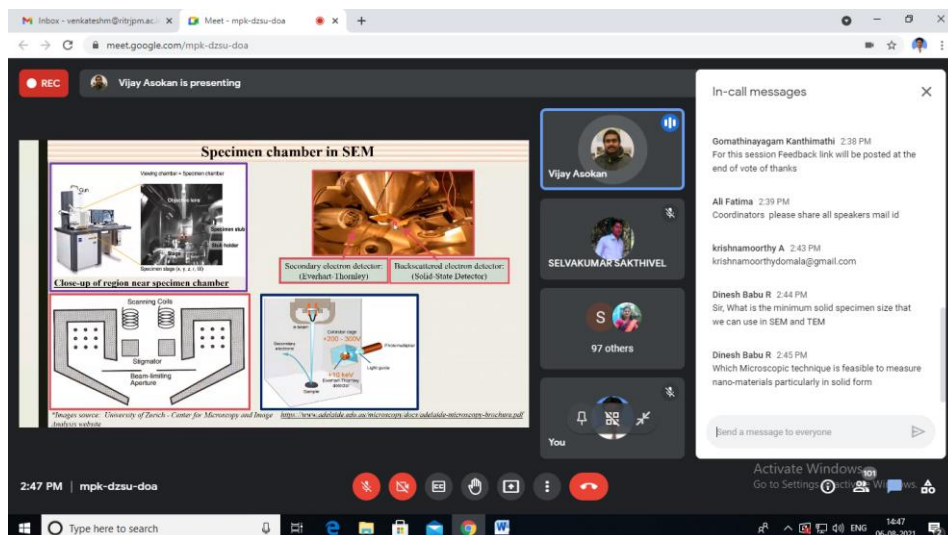
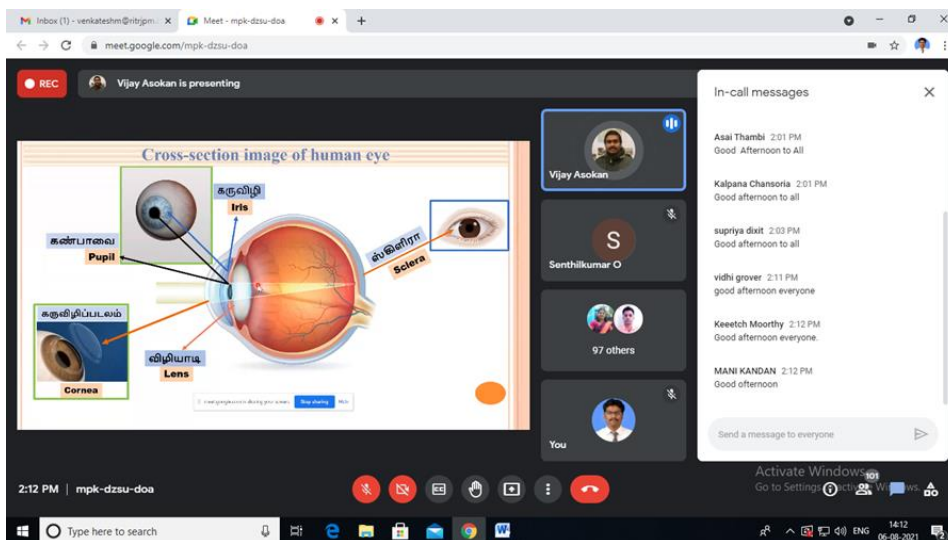
Title of the Talk:

Scanning Electron Microscopy

Resource Person:

Dr. Vijayshankar Asokan  
Post-Doctoral Fellow,  
Chemistry and Chemical Engineering,  
Chalmers University of Technology,  
Gothenburg, Sweden

He discussed about the basic principles and instrumentation on scanning electron microscopy to study the structure, morphology, chemical quantification, etc., To understand from the basics, he correlated the working of SEM is similar to the functioning of human eye. To understand what is happening with SEM, he explained the origin of optical microscopy, Leeuwenhoek's microscope, compound microscope, so that the image of the sample can be magnified and correlated with SEM images. He also explained about the schematic ray diagram of a compound projection microscope used as the basics for a light microscope or a transmission electron microscope and then he discussed about the thermionic emission (CRT and electron gun), deflection plates, anode, different electron sources, detectors and other components. Electron matter interactions (secondary electrons, back scattered electrons), image formation using SEM, SE and BSE electron images etc., He finally ended his speech by mentioning about the applications of SEM in solar cells and perovskite materials study.





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**One-day Research Webinar on "Drafting Impactful Research Articles,  
Project Proposals & Patents"**

**Session: I**

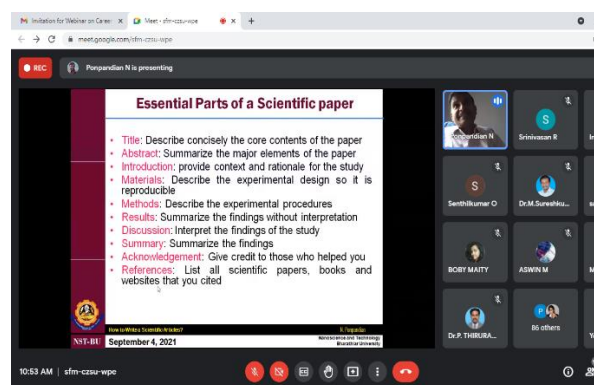
**Date: 04.09.2021**

**Time: 10.00 AM – 11.45 AM**

**Title of the Talk: Ensuring acceptance of your next research article**

**Resource Person:** Dr. N.Ponpandian,  
Professor & Head,  
Department of Nano Science & Technology,  
Bharathiyar University,  
Coimbatore

Dr. N. Ponpandian delivered a lecture on the topic "Ensuring acceptance of your next research article". First, he explained the origin of scientific writing, IMRAD format, definition of scientific paper and language corrections. Then, he discussed the essential parts of writing scientific paper which includes title, abstract, introduction, materials, methods, results, discussion, summary, acknowledgement and references. Finally, he explained about In-text-citations and rules for writing research papers and thesis.





## Session: III

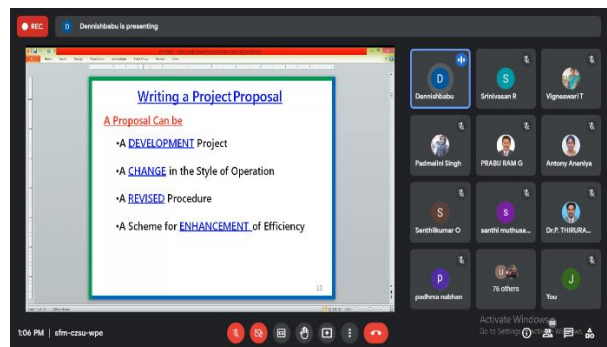
**Date: 04.09.2021**

**Time: 1.00 pm – 01.30 pm**

**Title of the Talk: Ramp-up your Project Proposal**

**Resource Person:** Dr. G. Sahaya Dennish Babu,  
Assistant Professor,  
Department of Physics,  
Chettinad College of Engineering & Technology,  
Karur.

Dr. G. Sahaya Dennish Babu delivered a lecture on the topic “Ramp-up your Project Proposal”. He started his lecture discussing Research and Development which includes the following contents such as Research, Faculty development, Infrastructure development and Technology development. Further, he explained the rubrics for writing the project proposal and discussed how to identify the topic which would be drafted better than the earlier proposals. Finally, he has concluded by presenting the goals and objectives of the submitting project proposal and explained the various reasons for the rejection of the proposal.



## Session: IV

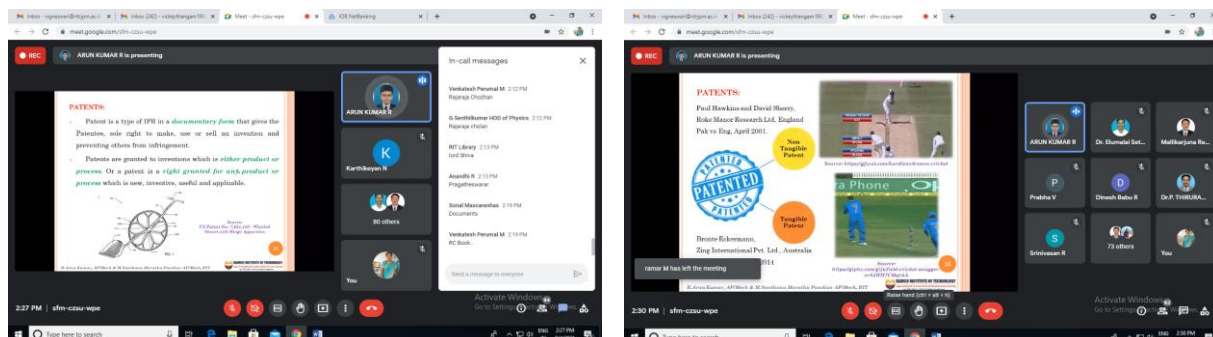
**Date: 04.09.2021**

**Time: 02.00 pm – 3.00 pm**

**Title of the Talk:** Need of Intellectual Property in Academia

**Resource Person:** Mr.A.Arun Kumar  
Assistant Professor  
Department of Mechanical Engineering  
Ramco Institute of Technology  
Rajapalayam

Mr.A.Arun Kumar, Assistant Professor, Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam delivered a lecture entitled “Need of Intellectual Property in Academia”. He discussed, which product goes for patent and not patent. He also explained the brand name of the products and geographical indication. By the end of the session, he answered all the queries asked by the participants. On the whole, this session was very useful for academicians.



**ONE-DAY SYMPOSIUM ON  
ADVANCED MATERIALS FOR SUSTAINABLE FUTURE  
(VIRTUAL MODE)**

**(As a Part of Knowledge sharing Initiative with  
Sri Parasakthi College for Women, Courtallam)**

**(08.01.2022)**

Department of Physics, RIT Research Council and Department of Chemistry of Ramco Institute of Technology, Rajapalayam organised a One-day Symposium on **ADVANCED MATERIALS FOR SUSTAINABLE FUTURE** on 08.01.2022.

**Forenoon Session**

The forenoon session was handled by **Dr.R.Justin Jseyphus, MSc., Ph.D., Associate Professor, Department of Physics, National Institute of Technology, Tiruchirappalli.** The title for this session was “Emerging Applications of Magnetic Materials”.

**Dr.R.Justin Jseyphus,** shared on the development of nanometer-scale magnetic materials for biomedical applications, spans the interface between the physical sciences and biology. He also discussed how the applications of these materials are rapidly becoming important in medicine and enable targeted therapies and diagnostics. He also explained that the specific applications add focus to the development of novel magnetic materials and facilitate a deeper understanding of the physical mechanisms behind their function.

**Afternoon Session**

The afternoon session was handled by **Dr. K. Ganesan, Scientific Officer & Asst.Prof. HBNI, Surface and Nanoscience Division, Materials Science Group, IGCAR, Kalpakkam.** The title for this session was "Nanometer Scale Electronic and Mechanical Session Properties of Certain Emerging Materials using Scanning Probe Microscopy." He briefed the importance of Scanning Probe Microscopy (SPM) and also discussed the utilisation of SPM for various research activities. He also explained the strength of the interaction between the tip of the instrument and the surface, producing images, profiles or maps of the surface. He also revealed the effects of atomic interactions and quantum effects on surface friction in the development of materials.

Nearly 250 participants actively participated in this symposium. Among these, more than 150 participants were from Tamilnadu, around 100 participants were from other states like Kerala, Maharashtra, Madhya Pradesh, Andhra Pradesh, Karnataka and Jammu. RIT faculty members also participated in this symposium. E-certificates were issued to all the participants.

Search results - vigneswari@rit... Meet - njh-oxhj-emf

meet.google.com/njh-oxhj-emf?pli=1

REC Justin Joseyphus is presenting

### Past applications using magnetic materials

Washing machine motor

Microwave oven turntable motor

Speakers

Chimney

refrigerator / AC compressor motor

DC motor

10:33 AM | njh-oxhj-emf

People

Justin Joseyphus... Karthikeyan N Srinivasan R

Dr.P. THIRURA... Baalamurugan ... K P RAGHAVEN...

ch 1927 92 others You

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ENG 10:33 AM IN 1/8/2022

Research Progress Review PPT - x Meet - njh-oxhj-emf

meet.google.com/njh-oxhj-emf?pli=1

REC Justin Joseyphus is presenting

### Magnetic nanoparticles in MRI

#### Influence of contrast agents

**T<sub>1</sub>-weighted**  
Water is dark  
Fat is light  
For Anatomical detail  
spin-lattice, or longitudinal relaxation

**T<sub>2</sub>-weighted**  
Water is bright  
Fat is dark  
For cancer imaging  
spin-spin or transverse rela:

- Hydrogen atoms of water in proximity to Gd chelates experience a faster T<sub>1</sub>-relaxation. (Positive contrast agents)
- SPIO (superparamagnetic iron oxide) particles influence T<sub>2</sub> relaxation time (Negative contrast agents)

11:00 AM | njh-oxhj-emf

People

Justin Joseyphus... ch ch 1937 Karthikeyan N

Srinivasan R Dr.P. THIRURA... Baalamurugan ...

Jeyapappa K 92 others You

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ENG 11:00 AM IN 1/8/2022

Google meet link to participate: X Meet - njh-oxhj-empf  
meet.google.com/njh-oxhj-empf

REC Kavya Ganesan is presenting

### Introduction to SPM

Scanning probe microscopes (SPMs) are a family of instruments used for studying surface/bulk properties of materials from atomic to micron scale

A sharp probe is scanned back and forth over the surface. Computer collects the data from the probe what it "feels like" and generate images in 3D view


These images are in real space with atomic resolution

Not only the topography, physical and mechanical properties at nanometer-scale

SPMs allow scientists to 'see' and manipulate individual atoms / NPs

Wide applications in different fields

**STM is the first member of SPM**  
Developed by Gerd Binnig and Heinrich Rohrer at IBM, Zurich in 1981



Gerd Binnig and Heinrich Rohrer

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Google meet link to participate: X Meet - njh-oxhj-empf  
meet.google.com/njh-oxhj-empf

REC Kavya Ganesan is presenting

### SPM Family

- Tip - sample tunnelling current
  - STM
    - Allows to study the surface electronic structure of materials. (Density of states, Workfunction etc)
    - Spin polarized STM (tunnel, MR & spin valve)
    - Compatible with UHV, Low temp., high mag. Field
    - Limited to conducting and semiconducting surfaces only
- Tip - sample inter atomic forces
  - AFM
    - Mechanical force interaction
      - Contact mode
      - Non-contact mode
      - Semi-contact mode (Tapping)
    - Other force interaction
      - Electrostatic force - EFM, KPM
      - Magnetic force - MFM
      - Chemical force - bonding
    - Associated measurements
      - Friction, phase imaging
      - current, capacitance, piezo, surface potential, impedance, elastic modulus etc
- AFM + optical microscopy
  - NSOM
    - Scanning confocal
      - 3D optical imaging at resolution beyond diffraction limit
      - Down to 50 nm possible
      - Also Raman, PL imaging of surface with nanometer-scale resol.

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# **Department of Chemistry**



## Department of Chemistry

### Lecture on “Innovation on Chemical Sciences and IPR”

**Date: 13.05.2022**

**Time: 11 am – 1 Pm**

The Department of Chemistry, Sri Parasakthi College, Courtallam in association with The Department of Chemistry, Ramco Institute of Technology, Rajapalayam organized a lecture on “Innovation in Chemical Sciences and IPR” on 13.05.2022. Dr. N. Revathi, Assistant Professor (Sr. Gr) delivered a lecture regarding invention, conversion of invention to innovation, conversion of innovation to Intellectual Property Rights, Filing details of patents, benefits of patents, etc., The faculty members and first, second and third year B. Sc., Chemistry students totally 128 participants from the Department of Chemistry, Sri Parasakthi College, Courtallam attended the lecture. Dr. L. Muthulakshmi, Organizing Secretary, Sri Parasakthi College, Courtallam arranged the event.





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NBA Accredited UG Programs: CSE, EEE, ECE and MECH



# **Department of English**

## lite English Learners Club



Elite English Learners Club has been established by the Department of English of Ramco Institute of Technology for helping students to enhance their Communication Skills. As part of the clubs initiative, extra-curricular activities are regularly conducted for the students to acquire proficiency over language traits and fine-tune their language skills.

### **Academic Year 2021-2022**

#### **Executive Members**

**President** S. Meenaa Bharathi- IV Civil

**Vice President** G.R. Ragul, IV Mech.

**Secretary** K. Sophiasree- III CSE

**Joint Secretary** M. Harini- III CSE

#### **Board of Student Directors:**

- R. Rakavi, II Civil
- V.S Priyadharshini, II Civil
- R. Harsha, II CSE
- G. Lakshmi Priya, II CSE
- G. Dhana Bharathi Lakshmi, II EEE
- B. Jeyapadma, II EEE
- R. Shrinithi, II ECE-B
- S. Suruthi, II ECE-B
- S. Pradeep Durai, II Mechanical

#### **ANCHORIT (SENIOR)**

The club conducted Anchorit (Senior) competition for II, III and IV year students on 28.09.2021 to identify a pool of students who could act as anchors for college events. Totally, 20 students participated. The winners are as follows:

**I PLACE:** S. SURUTHI, II ECE-B  
**II PLACE:** M. HARIHARAN, II ECE-A  
**III PLACE:** R. SHRINITHI, II ECE-B



## **FIRST-YEAR STUDENT INDUCTION PROGRAM**

On behalf of the club various literary events such as Riddles, Who Am I Game, Connexions, Would I Lie Activity, Pictionary, Charades and Tongue Twister were conducted for the newly-admitted I year students. The events were coordinated by the Student Coordinators of various departments.





## **FUNSOME ENGLISH CONTEST**

The contest was conducted on 30 & 31 December 2021, exclusively for I-year students. It had 3 rounds, namely, 'Rap Reckon', 'Word Sword' and 'One to One'. Winners from each round were shortlisted for the next round all the way to the Finals. Totally, 28 students from various branches of I year participated. The winners are as follows:

**I PRIZE:** K.M. ARCHITHA- I CSE & G. MEGHA- I AI&DS

**II PRIZE:** K. ANITHARANI & M. U. HARIDHARSHANA- I CSE

**III PRIZE:** N. NITHISH & S. SRINIVAS- I ECE-B



## CAPTION WRITING CONTEST

As part of the National Science Day Celebration, the Elite English Learners Club conducted a Caption Writing Contest exclusively for I-year students. Students had to give a catchy caption for a picture. The best caption was voted by the RIT faculty members through an online poll. The winners are:

**I PRIZE:** JERITA. D, I AI & DS

**II PRIZE:** YUVARAJ. S, I CIVIL

## INTERDEPARTMENTAL SCRABBLE T20 CHAMPIONSHIP

The championship was conducted for II to IV year students from 21.03.22-05.05.22. Totally, 94 students from various branches participated. After several rounds, K. BHARATH & B. KARTHIK MAHADEV of III MECHANICAL ENGINEERING emerged as the Scrabble Champions-2022.

