



EXCEL ENGINEERING COLLEGE

(Autonomous)

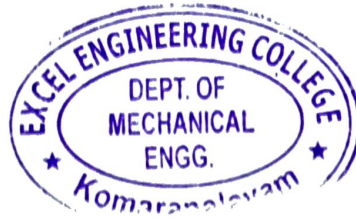
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KOMARAPALAYAM - 637303

ACADEMIC YEAR 2022-23

DEPARTMENT OF MECHANICAL ENGINEERING

2.3.2 Teacher use ICT – enable tools including Online resources for effective teaching

1. Smart Class Room
2. Video Lecturing (May be YouTube)
3. Digital Library
4. CAMU Teaching Plan



N. Nalany

HOD/MECH

Dept. Of Mechanical Engineering
Excel Engineering College
Komarapalayam.





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ACADEMIC YEAR 2022-23

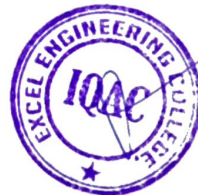
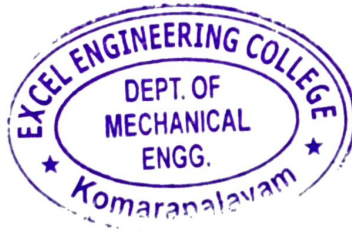
DEPARTMENT OF MECHANICAL ENGINEERING

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems(LMS), E-learning resources etc.

Number of teachers on roll	Number of teachers using ICT (LMS, e-Resources)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	E-resources and techniques used
26	26	Smart Class Room, Hyundai Seminar Hall, Pavayammal Hall	6	1	1. Video Presentation, 2. PPT Presentation

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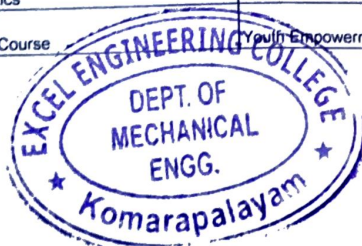
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2.3.2 Teachers use ICT-enabled tools including online resources for effective teaching and learning:

S.No	Name of the faculty	Name of the subject	Topics	ICT tools used
1	Dr N Venkatachalam	Automobile Engineering	Fuel Injection Pump System	PPT / Video / Smart Board
2	Dr K Boopathy	Manufacturing Technology	Blow Moulding Process	PPT / Video / Smart Board
3	Dr R Vinoth	Engineering Thermodynamics	Steam Power Cycle	PPT / Video / Smart Board
4	Mr S S Jayaraman	Manufacturing processess	Pattern - pattern materials	PPT / Video / Smart Board
5	Mr S Nirmalkumar	Design of Machine Elements	Flange Couplings	PPT / Video / Smart Board
6	Mr V Shanthamoorthy	CAD / CAM	Computer Aided Manufacturing	PPT / Video / Smart Board
7	Mr K Yuvaraj	Design of Machine Elements	Bearings	PPT / Video / Smart Board
8	Mr K Yuvaraj (Bhavani)	Dynamics of Machinery	Vector and Force Diagrams	PPT / Video / Smart Board
9	Mr M Srikanth	Thermal Engineering	Laws of Thermodynamics	PPT / Video / Smart Board
10	Mr D Alagesan	Kinematics of Machinery	Velocity and Acceleration	PPT / Video / Smart Board
11	Mr P Praveen	Computer Aided Manufacturing	Computer aided Process Planning	PPT / Video / Smart Board
12	Mr V Karthikeyan	Computer Aided Manufacturing	Computer Integrated Manufacturing	PPT / Video / Smart Board
13	Mr T M Sakthi Muruga	Computer Aided Manufacturing	Group Technology	PPT / Video / Smart Board
14	Mr Sambath Kumar M	Design of Machine Elements	Design of Shaft Couplings	PPT / Video / Smart Board
15	Mr M Nandhakumar	Non Destructive testing	Liquid Penetrant Testing	PPT / Video / Smart Board
16	Mr N Prithviraj	Thermal Engineering	Thermal conductivity of Good and Bad	PPT / Video / Smart Board
17	Mr V Udhayakumar	Engineering Materials & Metallurgy	Fracture and Types of Fracture	PPT / Video / Smart Board
18	Mr S Anandhakumar	Engineering Graphics	Construction of Orthographic Views	PPT / Video / Smart Board
19	Mr M Dineshkumar	Engineering Graphics	Construction of Isometric Views	PPT / Video / Smart Board
20	Mr N Selvakumar	Finite Element Analysis	Introduction of FEA	PPT / Video / Smart Board
21	Mr R Premraj	Alternate Fues of Automobiles	Benefits of Alternate Fuels	PPT / Video / Smart Board
22	Dr E R Sivakumar	Engineering Thermodynamics	Internal Combustion Engines and Comb	PPT / Video / Smart Board
23	Dr M Venkatesan	Heat and Mass Transfer	Conduction heat transfer	PPT / Video / Smart Board
24	Dr N Natarajan	Engineering materials & metallurgy	Heat treatment	PPT / Video / Smart Board
25	Dr. N. Tamilselvan	Robotics	Fundamentals of robotics	PPT / Video / Smart Board
26	Mr P Nithyanand	NCC Course	Youth Empowerment	PPT / Video / Smart Board





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UG B.E MECHANICAL ENGINEERING

2.3.2 List of Faculty Members Using ICT for Teaching

S.No	Name/ Designation	Name of the Subject	ICT Tools Used
1	Dr.N.Natarajan Professor/Head	Engineering materials & metallurgy	<ul style="list-style-type: none"> PPT Videos Lecturing Practical Demonstration https://youtu.be/BJrTZ07bHm4?si=AC7uSGJOcF76vVzU
2	Dr.M.Venkatesan Professor	Heat and Mass Transfer	<ul style="list-style-type: none"> PPT NPTEL Videos Practical Demonstration https://www.youtube.com/watch?v=qa-PQOjS3zA&list=PL5F4F46C1983C6785
3	Dr.N.Venkatachalam Associate Professor	Automobile Engineering	<ul style="list-style-type: none"> PPT NPTEL Videos Animations https://youtu.be/c3CalfdYZYw?si=67RNQIMxDhtZ7ZwI
4	Dr.K.Boopathy Associate Professor	Manufacturing Technology	<ul style="list-style-type: none"> PPT NPTEL Videos Practical Demonstration https://youtu.be/6ISddRRHAhA?si=Uk6wCEdflghTgjtQ
6	Dr.N.Tamilselvan Professor	Robotics	<ul style="list-style-type: none"> PPT NPTEL Videos Demonstration in Laboratory https://www.youtube.com/watch?v=LH8s4XPIW7U
7	Dr.R.Vinoth Professor	Engineering Thermodynamics	<ul style="list-style-type: none"> PPT NPTEL Videos Video lecturing Video presentation https://youtu.be/pMmHdWvN FI?si=ewGZtcuGXpBBsVEo
8	Dr.E.R.Sivakumar Professor	Engineering Thermodynamics	<ul style="list-style-type: none"> PPT NPTEL Videos Practical Demonstration https://youtu.be/pMmHdWvN FI?si=ewGZtcuGXpBBsVEo



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9	Mr.S.S.Jayaraman Assistant professor	Manufacturing processes	<ul style="list-style-type: none"> PPT NPTEL Videos E Journals In Library https://youtu.be/6ISddRRHAhA?si=Uk6wcE DflghTgjtQ
10	Mr.D.Alagesan Assistant professor	Kinematics of Machinery	<ul style="list-style-type: none"> PPT NPTEL Videos Demonstration in Laboratory https://youtu.be/yDEJxYGAoso?si= 8S1rIPX DzjETb9a
11	Mr.P.Nithyanand Assistant professor	NCC Course	<ul style="list-style-type: none"> PPT Video lecturing Role play https://www.youtube.com/live/AlqGa8Owl Nw?si=1qVFICq6YkjbWJx
12	Mr.V.Karthikeyan Assistant professor	Computer Aided Manufacturing	<ul style="list-style-type: none"> PPT NPTEL Videos Video lecturing https://youtu.be/20 K7c65Swg?si=J5Qisn-H JHtB46m
13	Mr.T.M.SakthiMuruga Assistant professor	Computer Aided Manufacturing	<ul style="list-style-type: none"> PPT NPTEL Videos Video lecturing https://youtu.be/20 K7c65Swg?si=J5Qisn-H JHtB46m
14	Mr.M.Sambathkumar Assistant professor	Design of Machine Elements	<ul style="list-style-type: none"> PPT NPTEL Videos https://nptel.ac.in/courses/112105234
15	Mr.M.Nandhakumar Assistant professor	Non Destructive testing	<ul style="list-style-type: none"> PPT NPTEL Videos Demonstration in Laboratory https://youtu.be/5cNWF61Tmj0?si=BIKgeh4 2GMD9YgPW
16	Mr.V.Udhayakumar Assistant professor	Engineering Materials & Metallurgy	<ul style="list-style-type: none"> NPTEL Videos Video lecturing https://youtu.be/BJrTZ07bHm4?si=AC7uSG JOcF76vVzU



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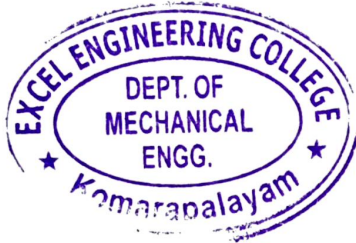
17	Mr.M.Dineshkumar Assistant professor	Engineering Graphics	<ul style="list-style-type: none"> • Animation videos • Video presentation • Video lecturing https://youtu.be/GFulyggB5g0?si=UmW-6WUPlgk1pyYC
18	Mr.N.Selvakumar Assistant professor	Finite Element Analysis	<ul style="list-style-type: none"> • PPT • NPTEL Videos • Demonstration in Laboratory https://youtu.be/LCTp7H6Tb8w?si=Yppw60SPWyJTP4iY
19	Mr.S.Anandhakumar Assistant Professor	Engineering Graphics	<ul style="list-style-type: none"> • PPT • NPTEL Videos • Video presentation https://youtu.be/GFulyggB5g0?si=UmW-6WUPlgk1pyYC
20	Mr.N.Prithviraj Assistant Professor	Thermal Engineering	<ul style="list-style-type: none"> • PPT • NPTEL Videos • Video lecturing https://youtu.be/pXfuKdTtEWE?si=gHydRnyHuQ6cwMc
21	Mr.P.Praveen Assistant Professor	Computer Aided Manufacturing	<ul style="list-style-type: none"> • PPT • NPTEL Videos • Video presentation https://youtu.be/20_K7c65Swg?si=J5Qisn-H_JHtB46m
22	Mr.R.Premraj Assistant Professor	Alternate Fuels of Automobiles	<ul style="list-style-type: none"> • PPT • NPTEL Videos • Video presentation https://youtu.be/iSfl_OtSKxs?si=qjOpEj2WIdOSDdQI
23	Mr.M.Srikanth Assistant Professor	Thermal Engineering	<ul style="list-style-type: none"> • PPT • Video lecturing • Video presentation https://youtu.be/pXfuKdTtEWE?si=gHydRnyHuQ6cwMc
24	Mr.V.Shanthamoorthy Assistant Professor	CAD / CAM	<ul style="list-style-type: none"> • Demonstration in Laboratory • Video presentation https://youtu.be/20_K7c65Swg?si=J5Qisn-H_JHtB46m
25	Mr.K.Yuvaraj (Bhavani) Assistant Professor	Dynamics of Machinery	<ul style="list-style-type: none"> • Demonstration in Laboratory • Video presentation https://youtu.be/p075LPq3Eas?si=KW0yLU



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26	Mr.K.Yuvaraj Assistant Professor	Design of Machine Elements	D0ddOoZ593 • PPT • Video lecturing • Video presentation https://nptel.ac.in/courses/112105234
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N. Natarajan

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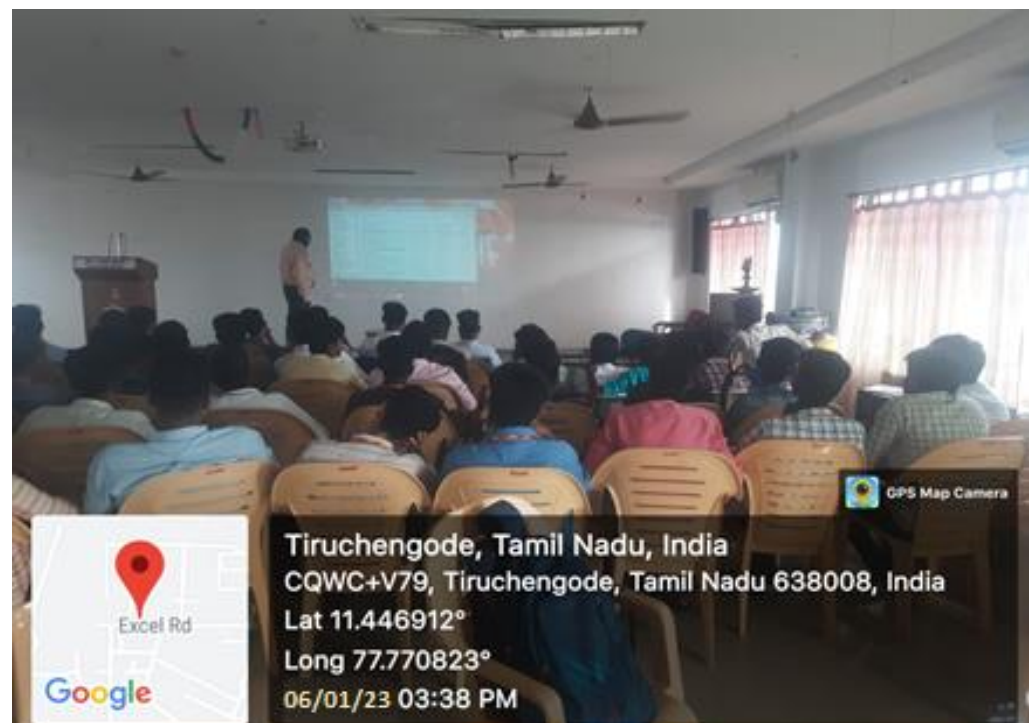
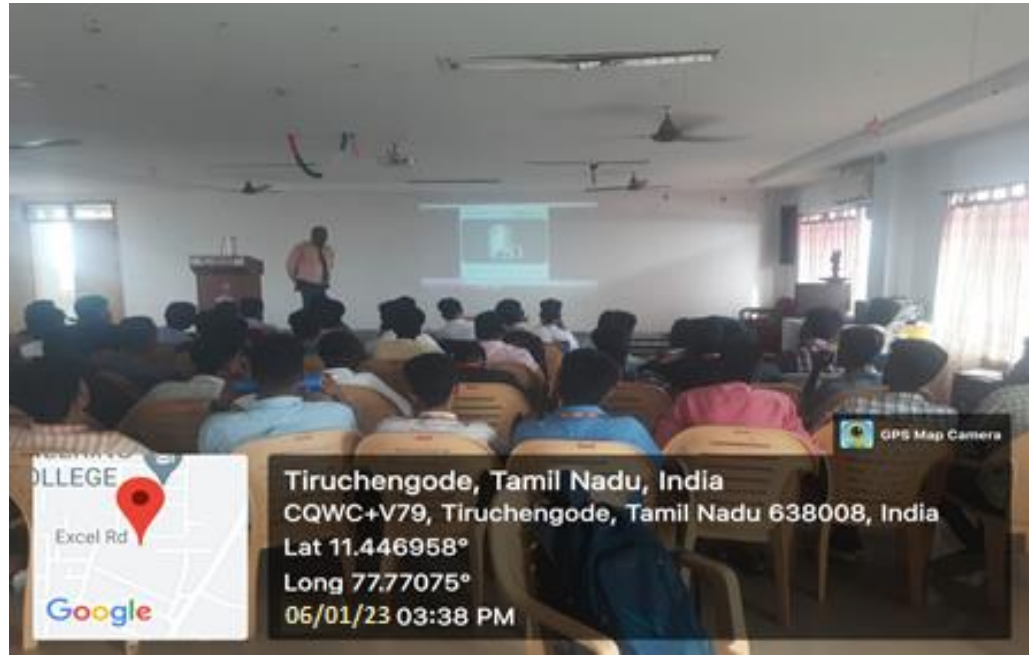
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SMART CLASS ROOM

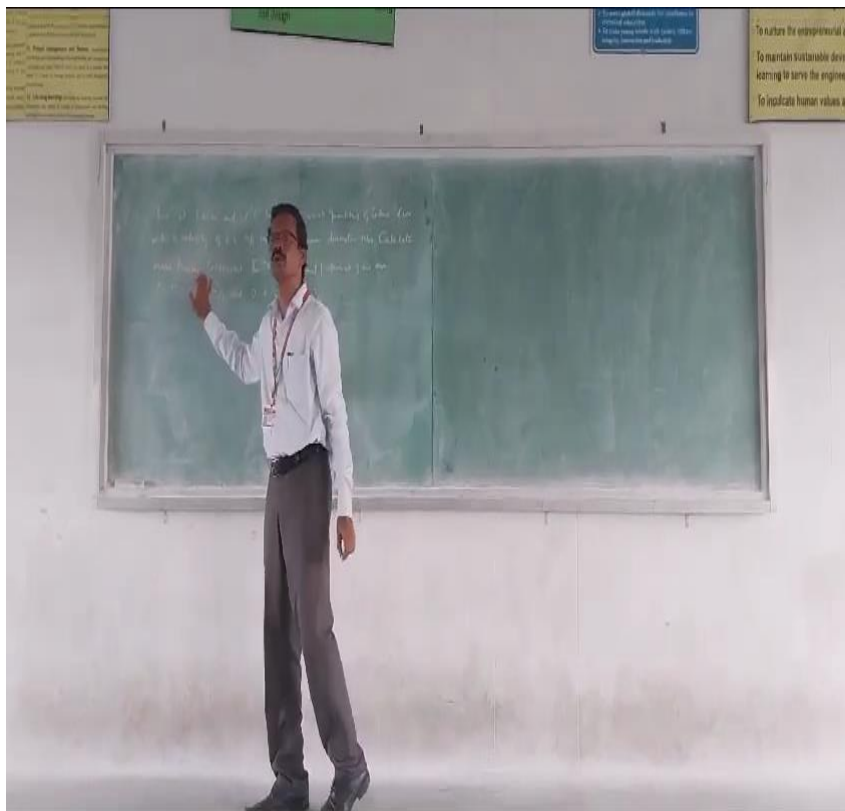
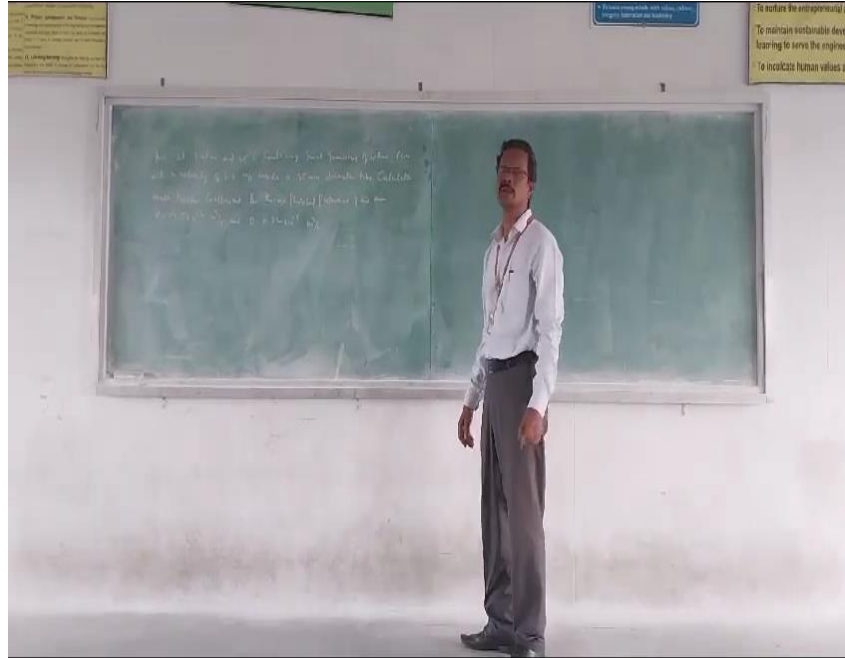




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VIDEO LECTURING





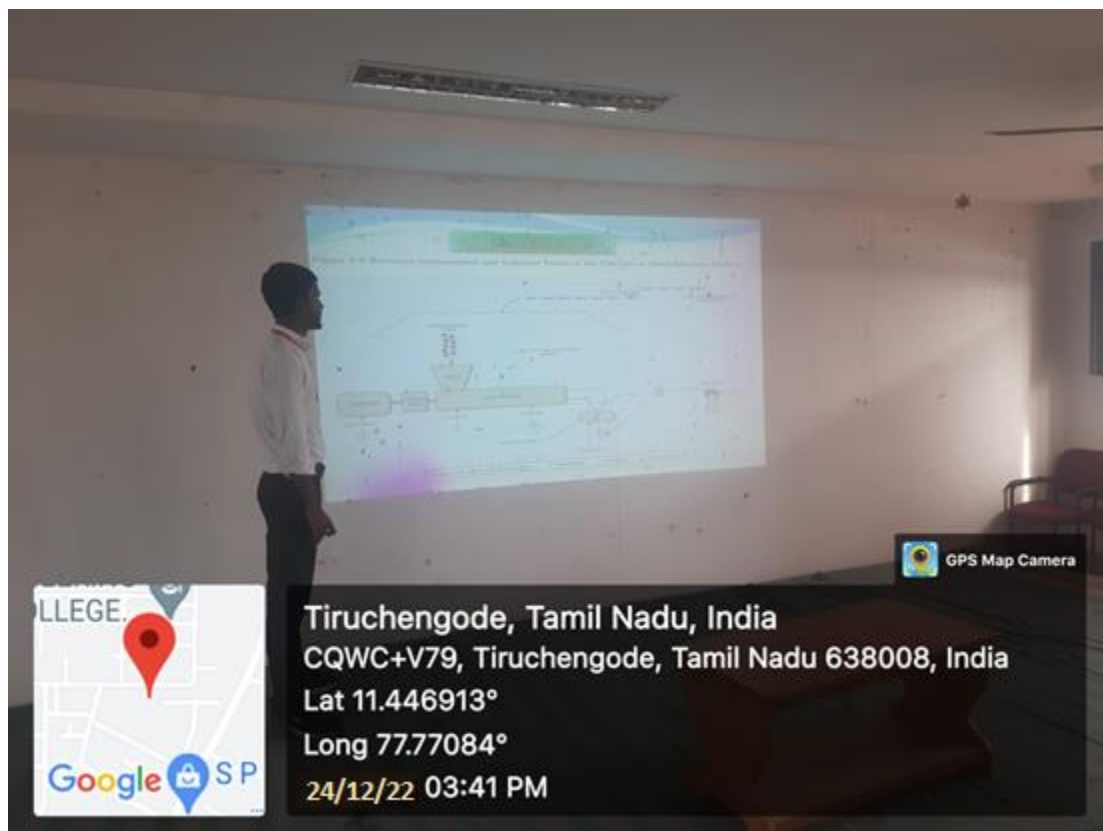
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PAPER PRESENTATION

Objective: A presentation is a means of communication which can be adapted to various speaking situations, such as talking to a group, addressing a meeting or briefing a team. To be effective, step-by-step preparation and the method and means of presenting the information should be carefully considered. This program will not only exhibit student's technical skill along with managerial ability which is need for the growth of one's own professional and personal ability.



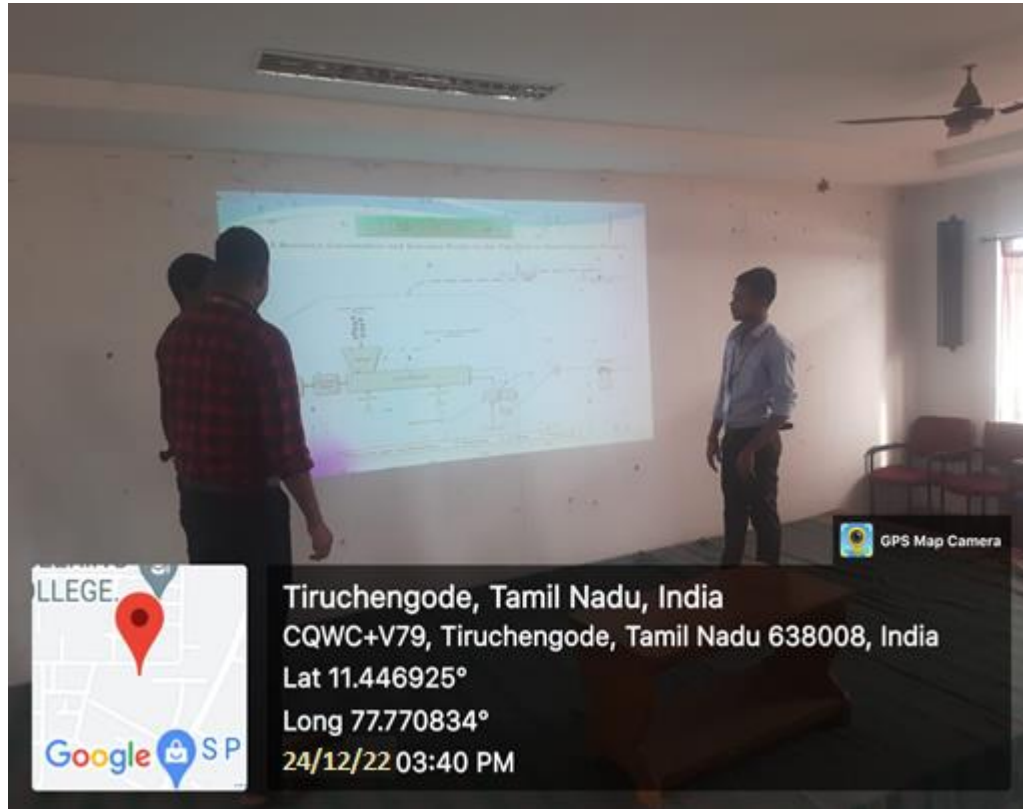
Students Presenting On Recent Advancements on EV



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Faculties Accessing Students Performance

Outcomes:-

1. Plan their presentation by gathering relevant information, determining audience needs, and defining presentation purpose
2. Organize the presentation using the concepts of ordering and determining the central, main and supporting ideas; Develop the introduction and conclusion of the presentation
3. Identify the benefits and uses of visual aids
4. Apply the various media choices for displaying data and enhancing the presentation
5. Use effective verbal and non-verbal techniques when making a presentation
6. Reduce their stress when making a presentation
7. Effectively field questions and elicit feedback from the audience
8. Gain feedback from peers and the trainer that will identify strengths and areas for improvement



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DESIGN

Objective: To improve students in the emerging areas of design by imparting recent technologies and advanced software's that are adapted in industries and research purpose with the help of advanced training facilities and expertise faculties to meet the global needs of society and industries.



Students Getting Trained In Auto CAD, CATIA and SOLIDWORKS



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DIGITAL LIBRARY



Digital Library Resources:

1. Quick Access
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3. Unlimited Collection of Books & E-Resources
4. Simplified & Automated Library Management