

# ICT TOOLS

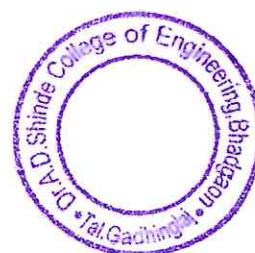
Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process



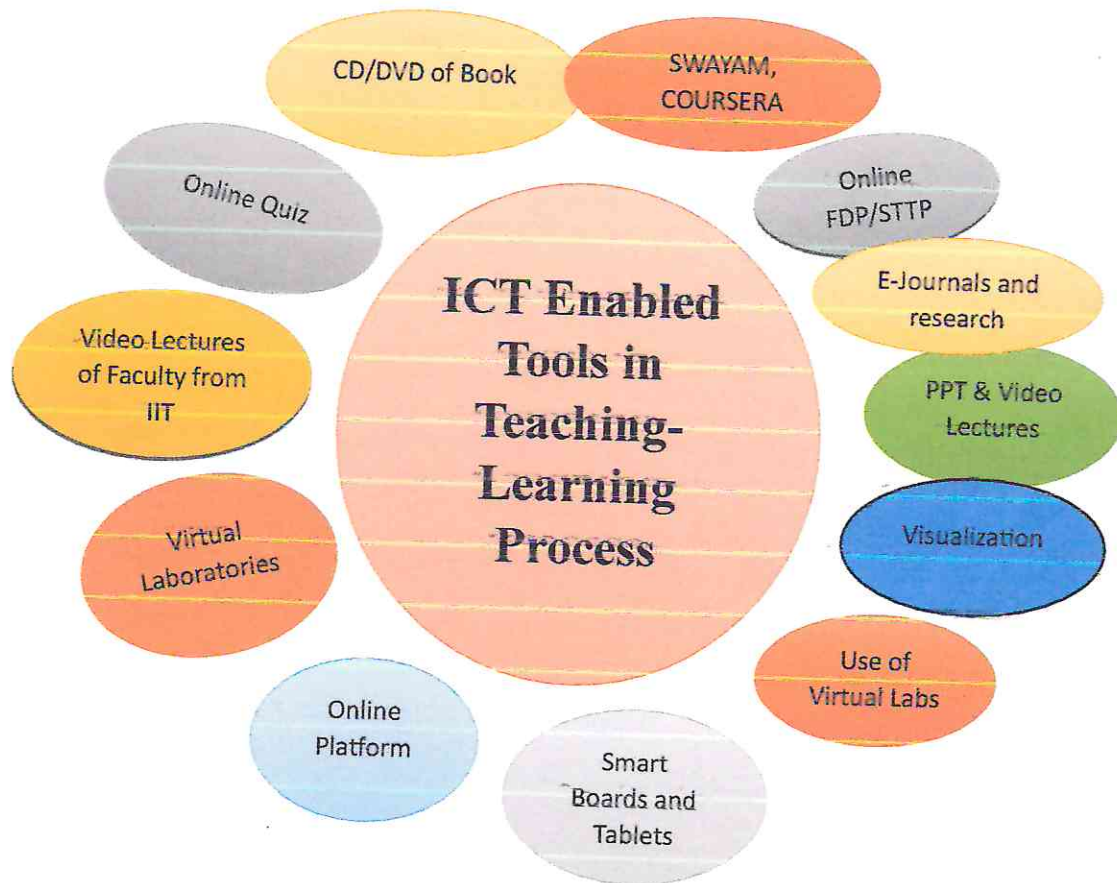
Dinkarrao K. Shinde Smarak Trusts

**Dr. A. D. Shinde College of Engineering, Bhadgaon**

Sr. No.	Name of the Activity	Purpose of Activity
1	Technical Competitions like Tech-manthan, Project Competitions	The purpose for conducting such a competition for sharing their projects ideas with the world
2	Participation in Paper Presentation Competition / Publications / Conferences.	Participation in Conferences helps to exchange knowledge also helps students to gain deeper insights after meeting people and make meaningful connections, and bring back valuable ideas and strategies.
3	Extra and Co-curricular Activities	Co-curricular activities improve the learning experiences of students, help them identify and develop their inner talents like creative & public speaking skills, leadership qualities, etc.
4	Quiz Solving and Group discussion	It encourages active participation, exchange of ideas and boosts confidence of students when they are able to provide the solutions by themselves. It improves their analytical thinking and problem-solving skills to a great extent.



# ICT Enabled Tools in Teaching-Learning Process



# ICT Enabled Tools in Teaching-Learning Process

## Index

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1	Swayam
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7	Smart board
8	Online Platforms
9	Virtual Laboratories
10	Online Quiz
11	CD/DVD of Books
12	Video Lectures of Faculty from IIT



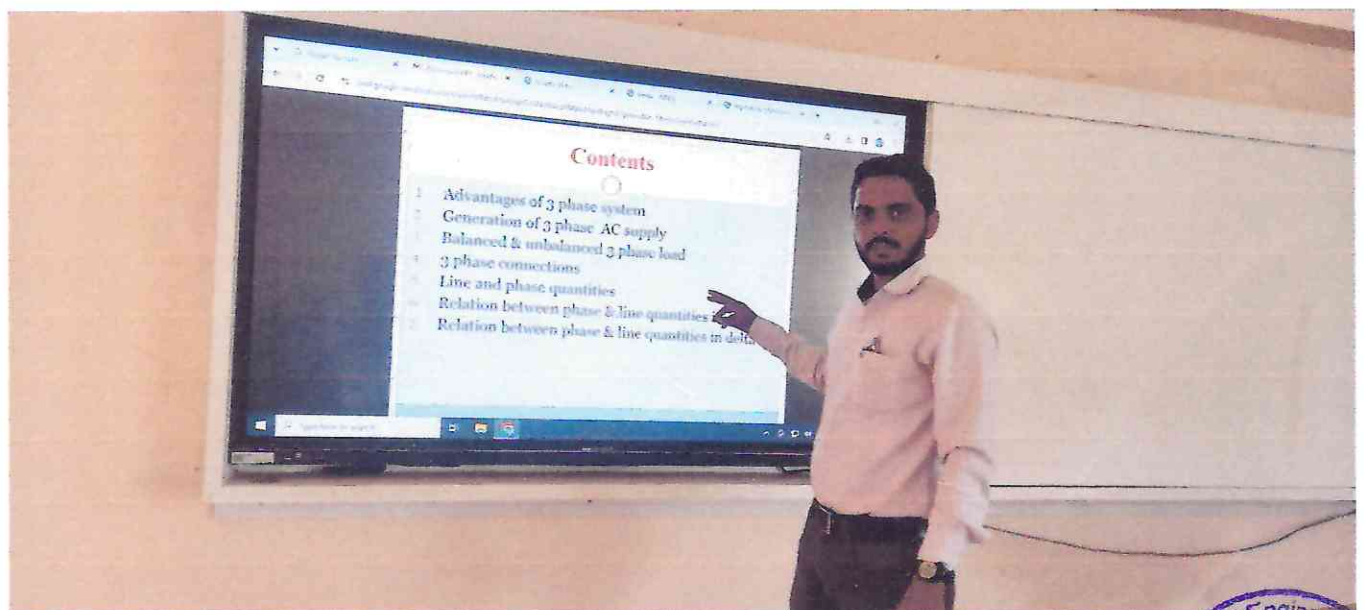
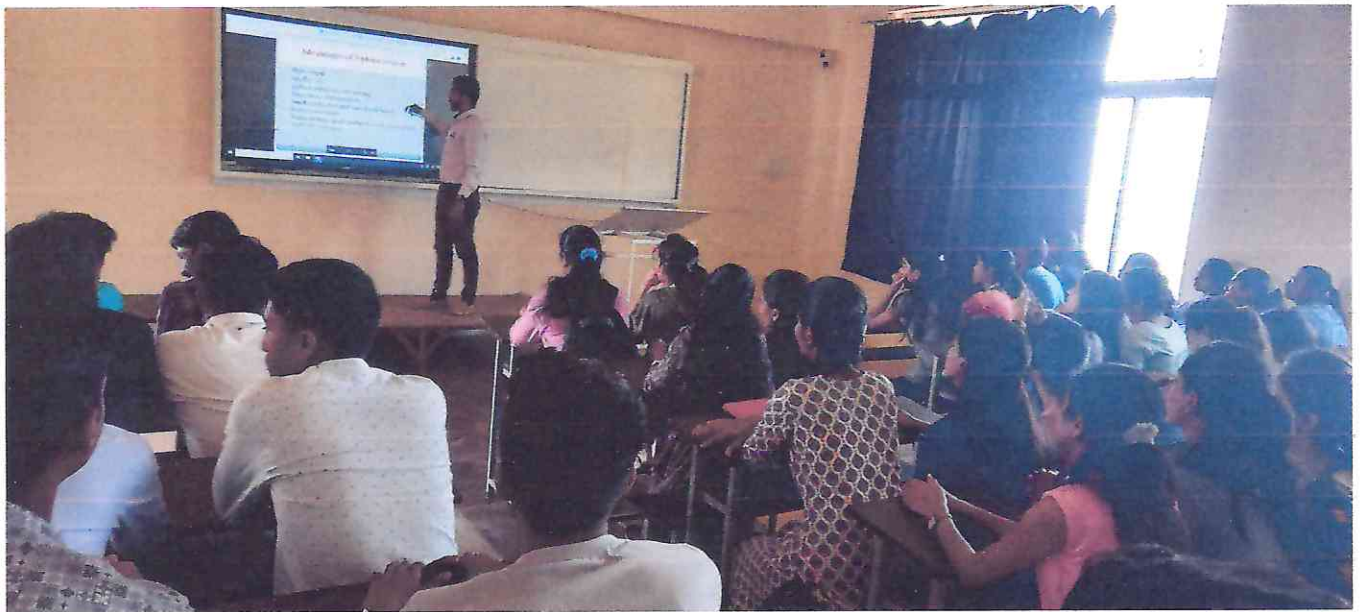
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**Dr. A. D. Shinde College of Engineering, Bhadgaon**

Sr. No	Name of activity	Purpose
1	Digital Platform	The main aim of Digital Platforms is to enhance the collaboration between end-users and producers to transact with each other. These platforms enable users to share different information like new products and services and connect the platform's ecosystem







# Analysis of DC Circuits

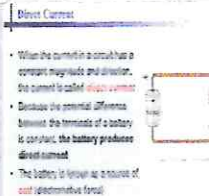
PRESENTED BY,  
**PROF. A. M. DESAI**  
 DEPARTMENT OF ELECTRICAL ENGINEERING  
**DR. A. D. SHINDE COLLEGE OF**  
**ENGINEERING, BBAD GAON.**

## Contents

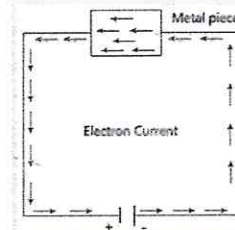
1. Fundamental of DC circuits
2. Concept of EMF
3. Potential difference
4. Current
5. Resistance
6. Ohms Law
7. Kirchhoff's Law
8. Mesh and node analysis
9. Numericals

## Fundamental of magnetic circuit

On a DC circuit, current flows in one direction only. Voltage can remain at a level or change, but it always has the same polarity. The main source of DC is from batteries, photocells, fuel cells, rectifiers and DC generators. The most fundamental equation describing DC circuits is Ohm's Law.

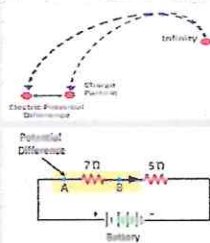


## Concept of EMF



- It is defined as the electrical force that causes to move the electrons in particular direction. It is denoted by  $E$  and its unit is volts.
- $\epsilon = V + Ir$
- $V$  is the voltage of the cell
- $I$  is the current across the circuit
- $r$  is the internal resistance of the cell
- $\epsilon$  is the electromotive force

## Potential difference



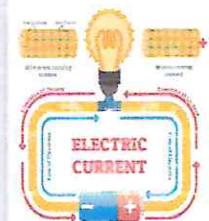
- The difference in potential between two points that represents the work involved or the energy released in the transfer of a unit quantity of electricity from one point to the other. It is denoted by PD and its unit is volts.

## Potential Difference Video

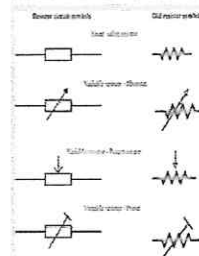
- concept of potential difference

## Current

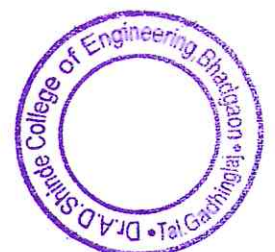
- It is defined as the movement of electrons or flow of electrons in a conducting material. It is denoted by  $I$  and its unit is ampere.



## Resistance



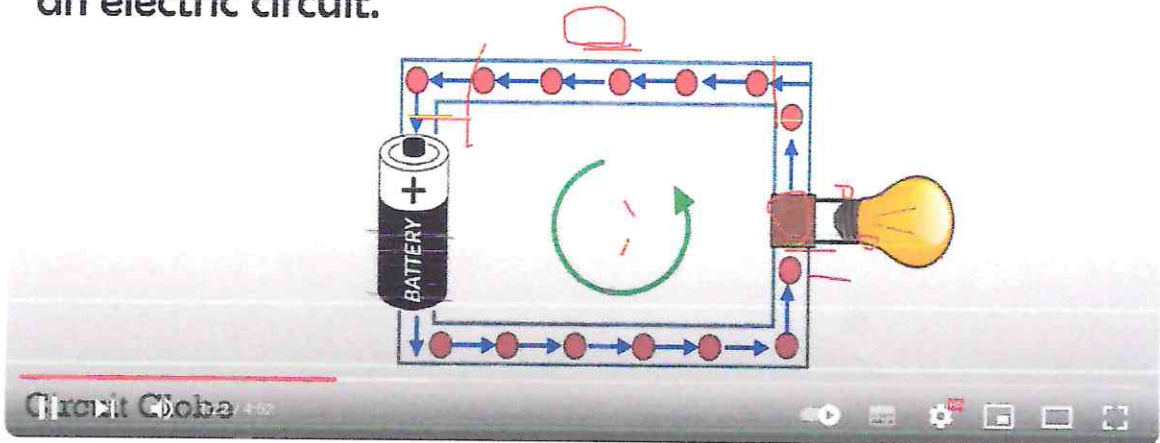
- Resistance is a measure of the opposition to current flow in an electrical circuit. Resistance is measured in ohms, symbolized by the Greek letter omega ( $\Omega$ ). Ohms are named after Georg Simon Ohm (1784-1854), a German physicist who studied the relationship between voltage, current and resistance.





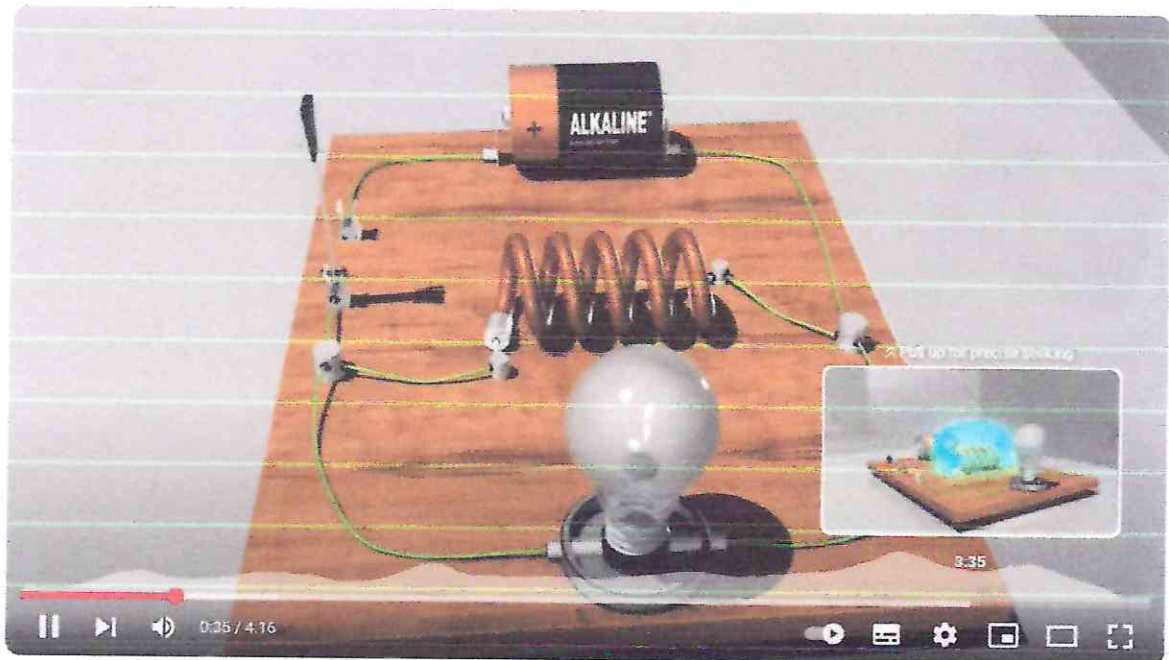
## Electric Current

The electric current is the continuous flow of electrons in an electric circuit.



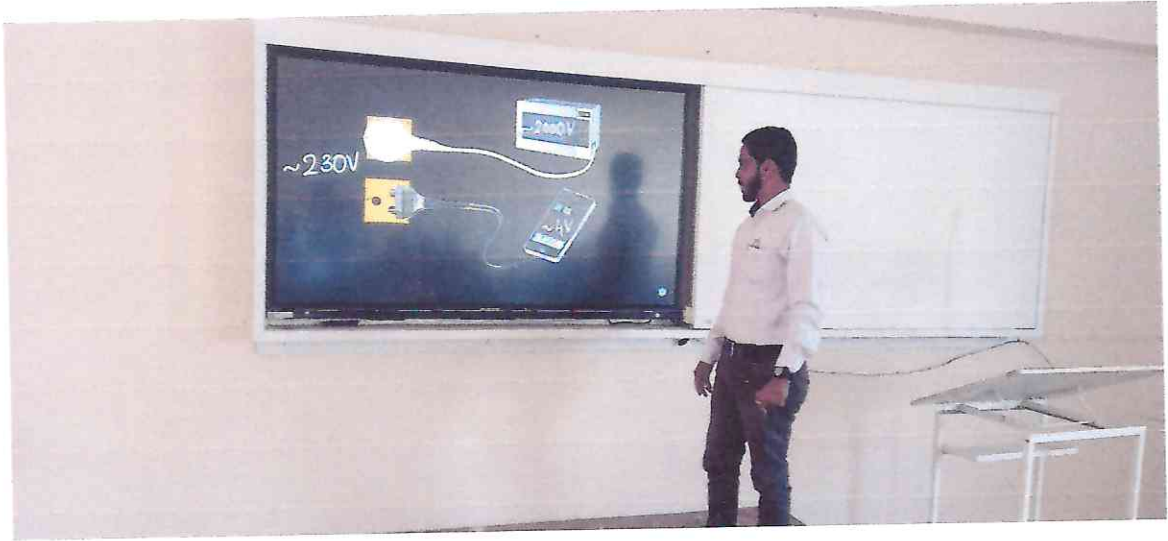
What is Electric Current? Definition & Direction of flow of current

## Video Demonstration during Lecture



How Electromotive Force Works





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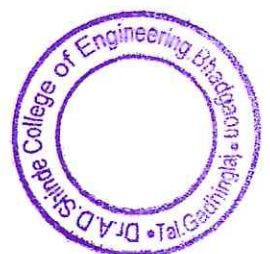
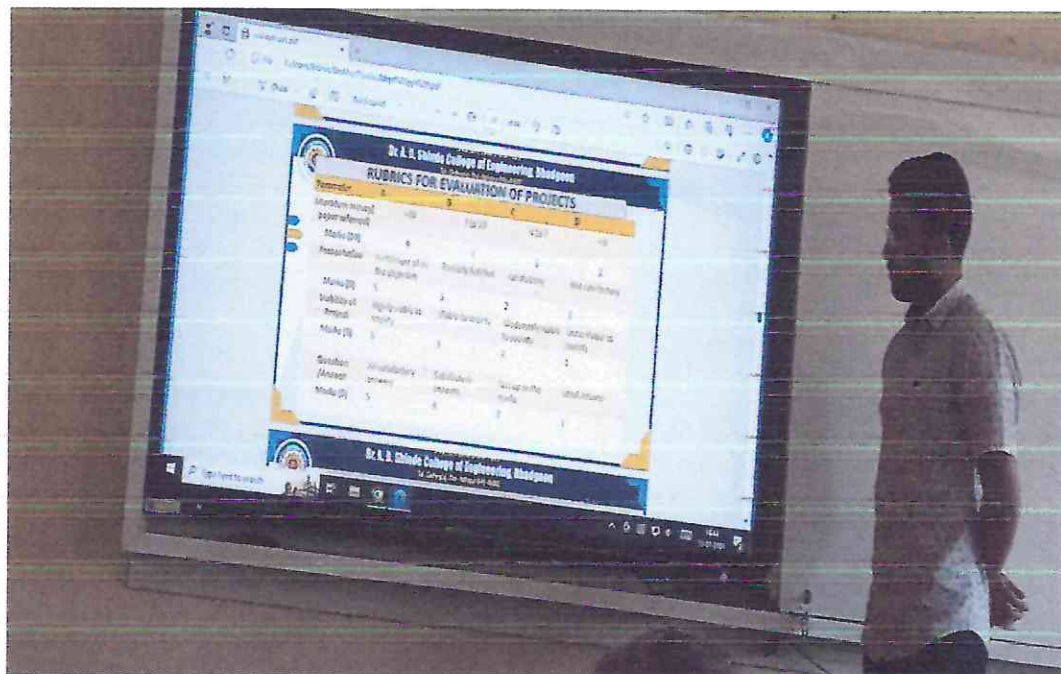
**Dr. A. D. Shinde College of Engineering, Bhadgaon**

Sr. No	Name of activity	Purpose
1	Smart Board	Smart Board approach helps the instructor to adopt innovative content delivery style. It improves student learning, enhances literacy, and boosts attentiveness.
2	LCD Projector	An LCD projector is a type of video projector for displaying video, images or computer data on a screen or other flat surface. It is a modern equivalent of the slide projector or overhead projector.

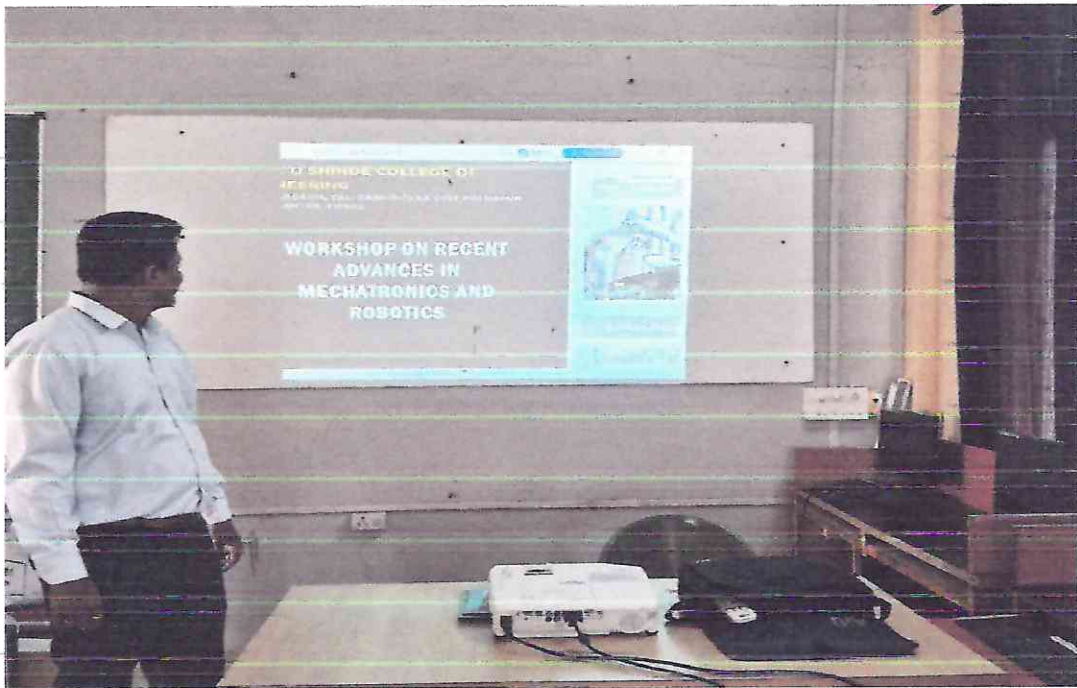




# Smart Board



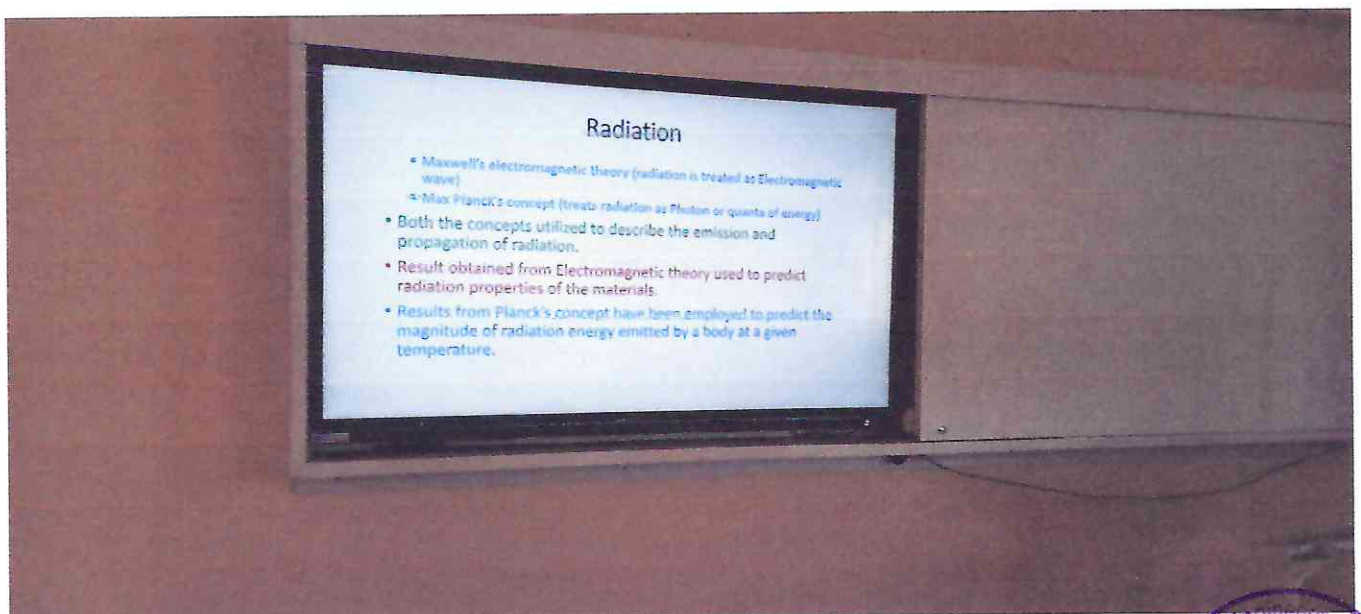
# LCD Projector





**Digital Platform to  
Improve  
Teaching Concepts**

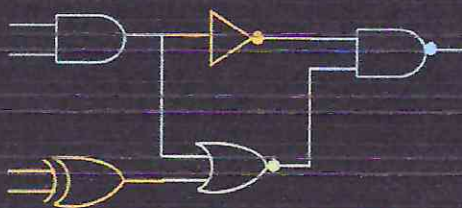




**Average Velocity**  $\bar{v}_{avg} = \frac{\Delta \vec{r}}{\Delta t}$

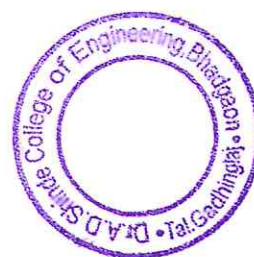
## You Tube Platform

# Digital Circuits




And any logic operation which can be implemented using these logic gates can be expressed using ELECTRONICS

## Introduction to Digital Electronics






# Virtual Lab Platform



**Virtual Labs**  
An MoE Govt of India Initiative



**INSTRUCTION**

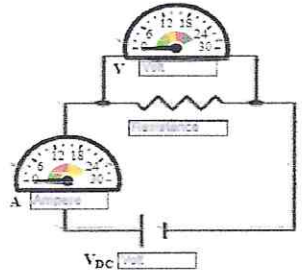
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**EXPERIMENTAL TABLE**

Resistance:  K $\Omega$

Serial No.	Voltage(Volt) V	Current(milliAmpere) mA

**Ohm's Law**




**CONTROLS**

DC Volt:  Volt

Resistance:  Kohms

**GRAPH PLOT**





## Simulation of Polar 3D Printer Machine

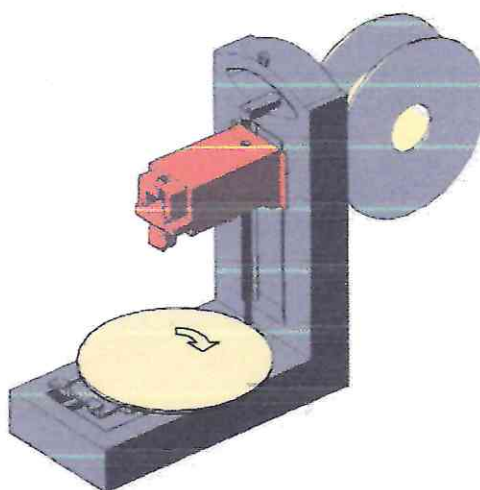
r-axis



y-axis



z-axis



# Online Lectures

4:44 PM 14.2KB/s

4G LTE 43



About this call

People

Information

Activities

In call



Priyanka telvekar (You)  
Meeting host



ajinkya desai



Amit Sarnaik



AVADHUT MHALU...



Jamir Tahasiladar



prasad kumbhar



Prasad Kumthekar



Pritesh Chavan



Sanket Naik



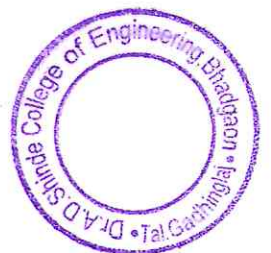
Shivendra Shinde



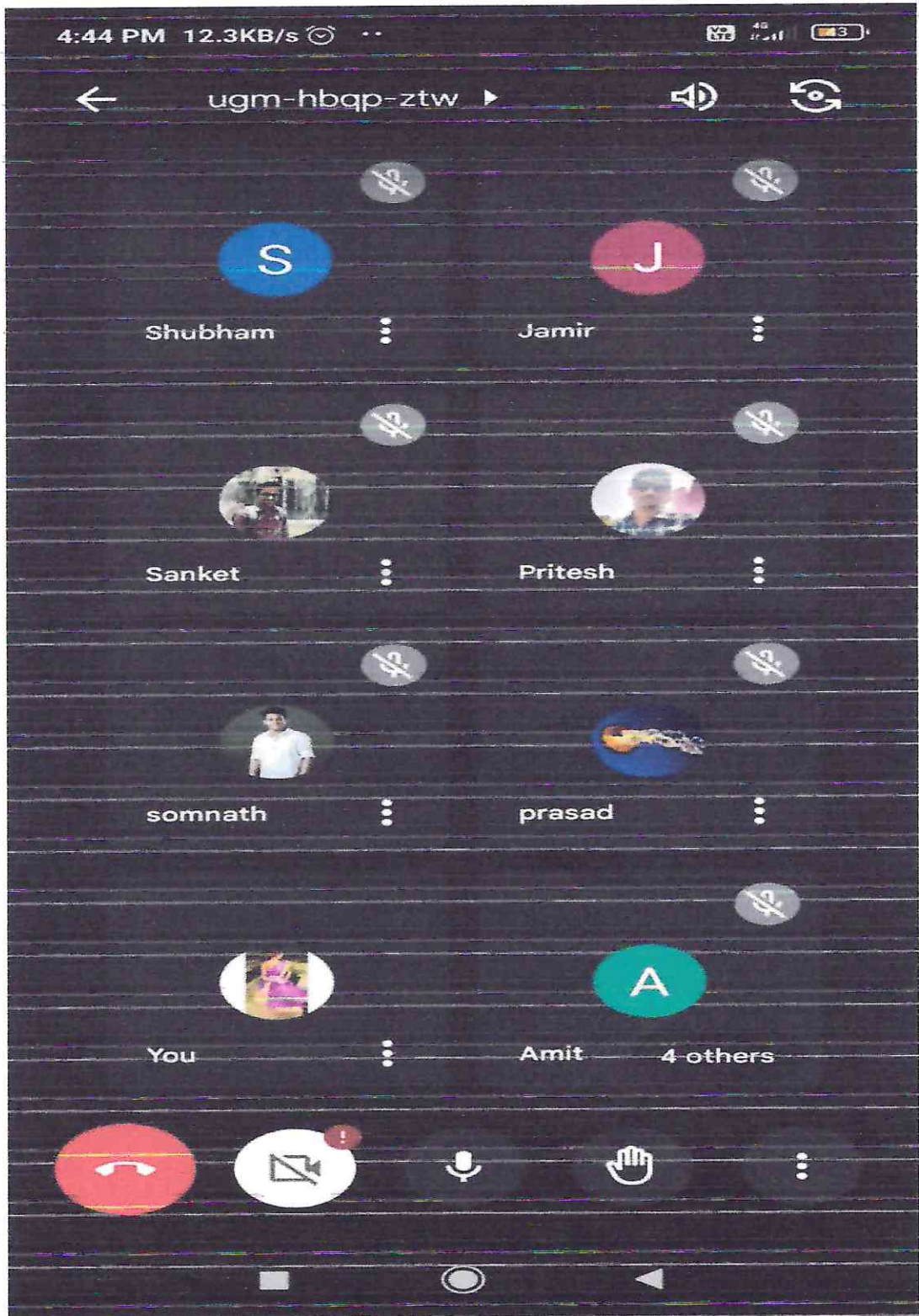
Shubham Kurade



Swapnil Hajare and 1 more have left







# **PPT & Video Lectures**



# **E - Journals**



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**Dr. A. D. Shinde College of Engineering, Bhadgaon**

Sr. No	Name of activity	Purpose
1	E-Journals	An electronic journal is a periodical publication which is published in electronic format, usually on the Internet. Electronic journals have several advantages over traditional printed journals: You can search the contents pages and/or the full text of journals to find articles on a certain subject.





# E - Journal

The screenshot shows the E-Journal dashboard for DR A D SHINDE COLLEGE OF ENGINEERING. The top navigation bar includes the college logo, a home icon, and a user profile icon. The left sidebar contains a 'MAIN' menu with options: Dashboard, Inbox (with a red notification badge), and Manage. The main content area is titled 'IEI Publication' and displays a grid of journal covers and links. The covers are for 'IEI Springer Journal Series A', 'IEI Springer Journal Series B', 'IEI Springer Journal Series C', and 'IEI Springer Journal Series D'. To the right of the covers are links for 'IEI Springer Journal Series E', 'IEI News Monthly Technical Activities', 'IEI Diploma Monthly e-News Letter', and 'IEI e-Journal'.

The screenshot shows the Springer Link page for the 'Journal of The Institution of Engineers (India): Series B'. The page header includes the Springer logo and a 'Log in' button. Below the header, there are links for 'Find a journal', 'Publish with us', 'Track your research', and a search bar. The main content area features a large banner with the journal title 'Journal of The Institution of Engineers (India): Series B' and the subtitle 'Electrical, Electronics & Telecommunication and Computer Engineering'. A 'Publishing model Hybrid' is indicated. A 'Submit your manuscript' button is prominently displayed. At the bottom, there are links for 'Editorial board', 'Aims and scope', and 'Journal updates'. A small circular logo is visible in the bottom right corner.







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Broaden Your Knowledge & Horizons through VISION



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COncCour Portal - Online Courses



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 Divyangjan (Persons with Special Needs)  
 Education E-journals  
 Engineering and Technology E-journals  
 Fashion Technology  
 Homeopathy  
 Hotel Management E-journals  
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 Full-Text Medical Books



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Access it



### THESIS/DISSERTATIONS

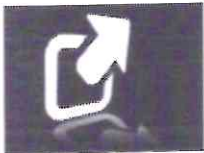
EBSCO Open Dissertations  
 Global Full-text Thesis and Dissertation  
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3.	<a href="#">AIMS Electrical and Electronics Engineering</a>
4.	<a href="#">American Journal of Electrical and Electronic Engineering</a>
5.	<a href="#">Archives of Electrical Engineering</a>
6.	<a href="#">Asian Journal of Electrical and Electronic Engineering</a>
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18.	<a href="#">Bulletin of Materials Science</a>
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21.	<a href="#">Civil and Environmental Engineering Reports</a>
22.	<a href="#">Civil and Environmental Science Journal</a>
23.	<a href="#">Civil Engineering Dimension</a>
24.	<a href="#">Civil Engineering Infrastructures Journal</a>
25.	<a href="#">Civil Engineering Journal</a>
26.	<a href="#">CivilEng</a>
27.	<a href="#">Cleaner Engineering and Technology</a>
28.	<a href="#">Coatings</a>
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34.	<a href="#">Designs</a>
35.	<a href="#">Detritus Journal</a>
36.	<a href="#">Developments in the Built Environment</a>
37.	<a href="#">Electronic Journal of the Faculty of Civil Engineering Osijek</a>
38.	<a href="#">Engineering</a>
39.	<a href="#">Engineering Heritage Journal</a>
40.	<a href="#">Engineering Journal</a>
41.	<a href="#">Engineering Reports</a>
42.	<a href="#">Engineering, Technology &amp; Applied Science Research</a>
43.	<a href="#">eXPRESS Polymer Letters</a>
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53.	<a href="#">Infrastructures</a>





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84.	<a href="#">Journal of Rehabilitation in Civil Engineering</a>
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100.	<a href="#">Open Civil Engineering Journal</a>
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4.	<a href="#">Advances in Human-Computer Interaction</a>
5.	<a href="#">Advances in Internet of Things</a>
6.	<a href="#">Advances in Multimedia</a>
7.	<a href="#">African Journal of Information Systems</a>
8.	<a href="#">AI</a>
9.	<a href="#">Ajis : Australasian Journal of Information Systems</a>
10.	<a href="#">Annals of computer science and information systems</a>
11.	<a href="#">Applied Computational Intelligence and Soft Computing</a>
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13.	<a href="#">Applied Computer Systems</a>
14.	<a href="#">Baltic Journal of Modern Computing</a>
15.	<a href="#">Brain, Broad Research in Artificial Intelligence and Neuroscience</a>
16.	<a href="#">CAAI Transactions on Intelligence Technology</a>
17.	<a href="#">Cognitive Computation and Systems</a>
18.	<a href="#">Communications and Network</a>
19.	<a href="#">Computation</a>
20.	<a href="#">Computational Communication Research</a>
21.	<a href="#">Computational Ecology and Software</a>
22.	<a href="#">Computational Engineering and Physical Modeling</a>
23.	<a href="#">Computational Intelligence and Neuroscience</a>
24.	<a href="#">Computational Social Networks</a>
25.	<a href="#">Computer and Information Science</a>
26.	<a href="#">Computer Science</a>
27.	<a href="#">Computer Science and Information Systems</a>
28.	<a href="#">Computers</a>
29.	<a href="#">Computers and Education Open</a>
30.	<a href="#">Crosstalk : Journal of Defense Software Engineering</a>
31.	<a href="#">Digital Studies</a>
32.	<a href="#">Database : the Journal of Biological Databases and Curation</a>
33.	<a href="#">Digital Culture &amp; Education</a>
34.	<a href="#">Data Science and Engineering</a>
35.	<a href="#">Discover Internet of Things</a>
36.	<a href="#">Discrete and Continuous Models and Applied Computational Science</a>
37.	<a href="#">EAI Endorsed Transactions on Cloud Systems</a>
38.	<a href="#">Egyptian Informatics Journal</a>
39.	<a href="#">e-Informatica Software Engineering Journal</a>
40.	<a href="#">E-learning and Education</a>
41.	<a href="#">Electronic Communications of the EASST</a>
42.	<a href="#">Electronic Proceedings in Theoretical Computer Science</a>
43.	<a href="#">Engineering Letters</a>
44.	<a href="#">EURASIP Journal on Information Security</a>
45.	<a href="#">First Monday</a>
46.	<a href="#">Foundations of Computing and Decision Sciences</a>
47.	<a href="#">Frontiers in Artificial Intelligence</a>
48.	<a href="#">Frontiers in Computer Science</a>
49.	<a href="#">Frontiers in Robotics and AI</a>
50.	<a href="#">Future Internet</a>
51.	<a href="#">Game Studies</a>
52.	<a href="#">GigaByte</a>
53.	<a href="#">Graphics and Visual Computing</a>





54.	<a href="#">Human Technology</a>
55.	<a href="#">IAENG International Journal of Computer Science</a>
56.	<a href="#">IEEE Open Journal of the Computer Society</a>
57.	<a href="#">IET Computers &amp; Digital Techniques</a>
58.	<a href="#">IET Cyber-systems and Robotics</a>
59.	<a href="#">IET Image Processing</a>
60.	<a href="#">IJAIN (International Journal of Advances in Intelligent Informatics)</a>
61.	<a href="#">IJID (International Journal on Informatics for Development)</a>
62.	<a href="#">Indian Journal of Computer Science and Engineering</a>
63.	<a href="#">IJIE (Indonesian Journal of Informatics Education)</a>
64.	<a href="#">Information Technology Journal</a>
65.	<a href="#">Intelligent Control and Automation</a>
66.	<a href="#">Intelligent Information Management</a>
67.	<a href="#">Interdisciplinary Journal of Information, Knowledge, and Management</a>
68.	<a href="#">The International Arab Journal of Information Technology</a>
69.	<a href="#">International Journal of Ad Hoc, Sensor &amp; Ubiquitous Computing</a>
70.	<a href="#">Informatics in Education</a>
71.	<a href="#">International Journal of Advanced Computer Sciences and Applications</a>
72.	<a href="#">International Journal of Artificial Intelligence &amp; Applications</a>
73.	<a href="#">International Journal of Applied Mathematics and Computer Science</a>
74.	<a href="#">International Journal of Communication Networks and Information Security</a>
75.	<a href="#">International Journal of Computer Games Technology</a>
76.	<a href="#">International Journal of Computer Networks &amp; Communications</a>
77.	<a href="#">International Journal of Computer Science &amp; Information Technology</a>
78.	<a href="#">International Journal of Computer Science and Communication</a>
79.	<a href="#">International Journal of Computer Science and Engineering Survey</a>
80.	<a href="#">International Journal of Computer Science and Information Technologies</a>
81.	<a href="#">International Journal of Computer Science and Management Studies</a>
82.	<a href="#">International Journal of Computer Science Issues</a>
83.	<a href="#">International Journal of Computer Science, Engineering and Applications (IJCSEA)</a>
84.	<a href="#">International Journal of Computational Methods and Experimental Measurements</a>
85.	<a href="#">International Journal of Computer Applications Technology and Research</a>
86.	<a href="#">International Journal of Database Management Systems</a>
87.	<a href="#">International Journal of Distributed and Parallel Systems</a>
88.	<a href="#">International Journal of Distributed Sensor Networks</a>
89.	<a href="#">International Journal of Doctoral Studies</a>
90.	<a href="#">International Journal of Education and Development using Information and Communication Technology</a>
91.	<a href="#">International Journal of Future Generation Communication and Networking</a>
92.	<a href="#">International Journal of Hybrid Information Technology</a>
93.	<a href="#">International Journal of Image, Graphics and Signal Processing</a>
94.	<a href="#">International Journal of Computers Communications &amp; Control</a>
95.	<a href="#">International Journal of Information Engineering and Electronic Business</a>
96.	<a href="#">International Journal of Information Technology and Computer Science</a>
97.	<a href="#">International Journal of Intelligent Systems and Applications</a>
98.	<a href="#">International Journal of Managing Information Technology</a>
99.	<a href="#">International Journal of Modern Education and Computer Science</a>
100.	<a href="#">International Journal of Multimedia &amp; Its Applications</a>
101.	<a href="#">International Journal of Network Security</a>
102.	<a href="#">International Journal of Network Security &amp; Its Applications</a>
103.	<a href="#">International Journal of Reconfigurable Computing</a>
104.	<a href="#">International Journal of Signal and Image Processing</a>
105.	<a href="#">International Journal of Simulation : Systems, Science and Technology</a>
106.	<a href="#">International Journal of Web &amp; Semantic Technology</a>
107.	<a href="#">International Journal on Electrical Engineering and Informatics</a>
108.	<a href="#">International Journal of Information Security Science</a>
109.	<a href="#">IoT</a>
110.	<a href="#">ISEL Academic Journal of Electronics, Telecommunications and Computers</a>
111.	<a href="#">Issues in Information Systems</a>

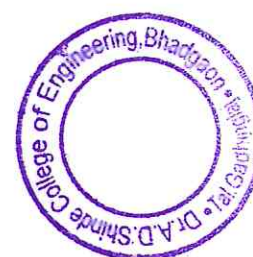




112.	<a href="#">JITeCS (Journal of Information Technology and Computer Science)</a>
113.	<a href="#">JOIV: International Journal on Informatics Visualization</a>
114.	<a href="#">Jordanian Journal of Computers and Information Technology</a>
115.	<a href="#">Journal of Applied Computer Science &amp; Mathematics</a>
116.	<a href="#">Journal of Artificial Intelligence and Data Mining</a>
117.	<a href="#">Journal of Cloud Computing: Advances, Systems and Applications</a>
118.	<a href="#">Journal of Communications Software and Systems</a>
119.	<a href="#">Journal of Computational Geometry</a>
120.	<a href="#">Journal of Computer and Robotics</a>
121.	<a href="#">Journal of Computer Networks and Communications</a>
122.	<a href="#">Journal of Computer Science and Technology</a>
123.	<a href="#">Journal of Computer Systems, Networks, and Communications</a>
124.	<a href="#">Journal of Computing Research and Innovation</a>
125.	<a href="#">Journal of Data and Information Science</a>
126.	<a href="#">Journal of Electrical Systems and Information Technology</a>
127.	<a href="#">Journal of Intelligent Systems</a>
128.	<a href="#">International Journal on Smart Sensing and Intelligent Systems</a>
129.	<a href="#">Journal of Internet Services and Information Security</a>
130.	<a href="#">International Journal on Soft Computing</a>
131.	<a href="#">Journal of Open Source Software</a>
132.	<a href="#">The Journal of Artificial Intelligence Research</a>
133.	<a href="#">Journal of Machine Learning Research</a>
134.	<a href="#">Journal of Software Engineering Research and Development</a>
135.	<a href="#">Journal of Universal Computer Science</a>
136.	<a href="#">Knowledge Engineering and Data Science</a>
137.	<a href="#">Logical Methods in Computer Science</a>
138.	<a href="#">Machine Learning: Science and Technology</a>
139.	<a href="#">Mathematical and Computer Modelling of Dynamical Systems</a>
140.	<a href="#">Journal of Software Engineering and Applications</a>
141.	<a href="#">Journal of Systemics, Cybernetics and Informatics</a>
142.	<a href="#">Journal of Theoretical and Applied Information Technology</a>
143.	<a href="#">Neuromorphic Computing and Engineering</a>
144.	<a href="#">Open Computer Science</a>
145.	<a href="#">PeerJ Computer Science</a>
146.	<a href="#">Proceedings on Privacy Enhancing Technologies</a>
147.	<a href="#">Scientific Phone Apps and Mobile Devices</a>
148.	<a href="#">Scientific Programming</a>
149.	<a href="#">Soft Computing Letters</a>
150.	<a href="#">SoftwareX</a>
151.	<a href="#">South African Computer Journal</a>
152.	<a href="#">Signal &amp; Image Processing</a>
153.	<a href="#">Supercomputing Frontiers and Innovations</a>
154.	<a href="#">Systems, Signs &amp; Actions</a>
155.	<a href="#">Theory and Applications of Mathematics &amp; Computer Science</a>
156.	<a href="#">Transactions on Data Privacy</a>
157.	<a href="#">The International Journal on Advances in ICT for Emerging Regions</a>
158.	<a href="#">Vietnam Journal of Computer Science</a>
159.	<a href="#">Virtual Reality &amp; Intelligent Hardware</a>
160.	<a href="#">Wireless Sensor Network</a>

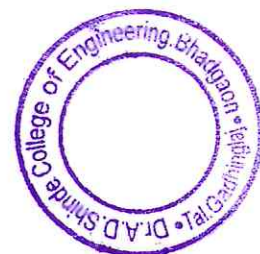
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Sr.No.	Mechanical Engineering
1.	<a href="#">Acta Mechatronica</a>
2.	<a href="#">Advances in Mechanical Engineering</a>
3.	<a href="#">Advances in Tribology</a>
4.	<a href="#">American Journal of Mechanical Engineering</a>
5.	<a href="#">Archive of Mechanical Engineering</a>
6.	<a href="#">Chinese Journal of Mechanical Engineering</a>
7.	<a href="#">Engineering Applications of Computational Fluid Mechanics</a>
8.	<a href="#">Facta Universitatis. Series: Mechanical Engineering</a>
9.	<a href="#">Friction</a>
10.	<a href="#">Frontiers in Mechanical Engineering</a>
11.	<a href="#">International Journal of Automotive and Mechanical Engineering</a>
12.	<a href="#">International Journal of Mechanical and Materials Engineering</a>
13.	<a href="#">International Journal of Mechanical Engineering and Applications</a>
14.	<a href="#">International Journal of Mechanical Engineering and Robotics Research</a>
15.	<a href="#">International Journal of Turbomachinery, Propulsion and Power</a>
16.	<a href="#">IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)</a>
17.	<a href="#">JEMME (Journal of Energy, Mechanical, Material, and Manufacturing Engineering)</a>
18.	<a href="#">Jordan Journal of Mechanical and Industrial Engineering</a>
19.	<a href="#">Journal of Applied Fluid Mechanics</a>
20.	<a href="#">Journal of Computational and Applied Mechanics</a>
21.	<a href="#">Journal of Engineering Mechanics and Machinery</a>
22.	<a href="#">Journal of Low Frequency Noise, Vibration and Active Control</a>
23.	<a href="#">Journal of Mechanical Engineering</a>
24.	<a href="#">Journal of Mechanical Engineering and Sciences</a>
25.	<a href="#">Journal of Mechanical Engineering and Technology</a>
26.	<a href="#">Journal of Mechanical Engineering Research and Developments</a>
27.	<a href="#">Journal of Mechanics</a>
28.	<a href="#">Journal of Mechatronics, Electrical Power, and Vehicular Technology</a>
29.	<a href="#">Journal of Renewable Energy and Mechanics</a>
30.	<a href="#">Journal of Robotics</a>
31.	<a href="#">Journal of the Mechanical Behavior of Materials</a>
32.	<a href="#">Machines</a>
33.	<a href="#">Mechanical Engineering Journal</a>
34.	<a href="#">Mechanical Sciences</a>
35.	<a href="#">Mechanics &amp; Industry</a>
36.	<a href="#">Modern Mechanical Engineering</a>
37.	<a href="#">Periodica Polytechnica Mechanical Engineering</a>
38.	<a href="#">ROBOMECH Journal</a>
39.	<a href="#">Theoretical and Applied Mechanics Letters</a>
40.	<a href="#">Tribology in Industry</a>





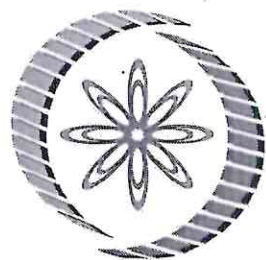
Jan-Apr 2024													ABC ID	Study Year	Timeline
S.no	Name	Course Id	CourseName	College Roll Number	Mobile Number	Gender	City	Profession	Qualification	Degree	Department	ABC ID	Study Year	Timeline	
1	Abhishek Amarsinh Mane	noc24-me13	Mechatronics	2021072799	+91 70573 55400	male	Karvir	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024	
2	Aditya	noc24-ee50	Computer-Aided Design of Electrical Machines	23	+91 90969 98071	male	Karvir	student	diploma	diploma	Electrical Engineering	None	3	Jan-Apr 2024	
3	ROHIT VIJAY SAVYANAVAR	noc24-ce07	Construction Methods And Equipment Management		+91 87678 45728	male	Gadhinglaj	faculty	masters		Civil Engineering	None	None	Jan-Apr 2024	
4	AJIT ASHOK NALANG	noc24-me13	Mechatronics	2021072281	+91 77769 39643	male	Bhudargad	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024	
5	AJIT ASHOK NALANG	noc24-me51	Mechanics of Sheet Metal Forming	2021072281	+91 77769 39643	male	Bhudargad	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024	
6	Akash bhiungade	noc24-me51	Mechanics of Sheet Metal Forming	2021072814	+91 77739 65019	male	Kagal	student	bachelor4yr	btech	Mechanical Engineering	None	None	Jan-Apr 2024	
7	amit madakari	noc24-ce01	Advanced Foundation Engineering		+91 86002 30152	male	Gadhinglaj	faculty	masters		Civil Engineering	None	3	Jan-Apr 2024	
8	ANKUR GODSE	noc24-mg03	Project Management	12021062	+91 87794 94328	male	Thane	student	diploma	be	Civil Engineering	None	1	Jan-Apr 2024	
9	Arpita Sawant	noc24-cs14	Artificial Intelligence: Knowledge Representation And Reasoning	2023027127	+91 96992 49178	female	Chandgad	student	bachelor4yr	btech	Computer Science and Engineering	None	4	Jan-Apr 2024	
10	Awadan Omkar Dashrath	noc24-me68	Cryogenic Hydrogen Technology	2020075885	+91 91725 35016	male	Chandgad	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024	
11	Bhushan Mohan Satardekar	noc24-me13	Mechatronics	2021072047	+91 99210 25071	male	Chandgad	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024	
12	Bhushan Mohan Satardekar	noc24-me14	Modelling And Simulation Of Dynamic Systems	2021072047	+91 99210 25071	male	Chandgad	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024	
13	Onkar babaso kamble	noc24-ee10	Advanced topics in Wireless Communication (Hindi)	2021071485	+91 92262 39277	male	Kagal	student	bachelor4yr	btech	Electrical Engineering	None	None	Jan-Apr 2024	
14	Basavaraj Annappa Angadi	noc24-ee53	Electrical Machines - II		+91 89516 11780	male	Mudhol	faculty	masters		Electrical Engineering	None	4	Jan-Apr 2024	
15	Shailesh Chandrakant chavan	noc24-ce54	Advanced Topics in Science and Technology of Concrete	2021079316	+91 79720 80206	male	Gadhinglaj	student	bachelor4yr	btech	Civil Engineering	None	2	Jan-Apr 2024	
16	Tejaswiti Kishor Desai	noc24-cs58	Discrete Mathematics	2022086134	+91 94051 24244	female	Ajara	student	bachelor4yr	btech	Electronics and Communication Engineering	None	2	Jan-Apr 2024	
17	Tejaswiti Kishor Desai	noc24-ee46	Microprocessors and Microcontrollers	2022086134	+91 94051 24244	female	Ajara	student	bachelor4yr	btech	Electronics and Communication Engineering	None	1	Jan-Apr 2024	
18	Viraj desai	noc24-cs53	Data Science for Engineers	08	+91 72495 37245	male	Chandgad	student	bachelor4yr	btech	Computer Science and Engineering	None	None	Jan-Apr 2024	
19	DIGAMBAR SAMBHAJI KHORATE	noc24-ce09	Earthquake Resistant Design of Foundations		+91 70572 02026	male	Gadhinglaj	faculty	masters		Civil Engineering	None	1	Jan-Apr 2024	
20	Gourav Shankar Bagadi	noc24-me13	Applied Linear Algebra in AI and ML	2023039202	+91 94041 27046	male	Chandgad	student	bachelor4yr	btech	Electrical Engineering	None	4	Jan-Apr 2024	
21	Gundurav Goral	noc24-ee09	A brief introduction of Micro - Sensors	34	+91 90678 22360	male	Chandgad	student	bachelor4yr	btech	Electronics and Communication Engineering	None	None	Jan-Apr 2024	
22	Hemlata Raghunath Patil	noc24-ge11	Biophotonics		+91 91456 48585	female	Gadhinglaj	faculty	masters		Physics	None	2	Jan-Apr 2024	
23	harshavardhan ghatage	noc24-ee10	Advanced topics in Wireless Communication (Hindi)	2022086476	+91 70585 78957	male	Kagal	student	bachelor4yr	btech	Electrical Engineering	None	2	Jan-Apr 2024	
24	harshavardhan ghatage	noc24-ee39	Design Of Power Electronic Converters	2022086476	+91 70585 78957	male	Kagal	student	bachelor4yr	btech	Electrical Engineering	None	2	Jan-Apr 2024	
25	KARAN SUDHAKAR DESAI	noc24-cs42	Problem Solving Through Programming In C	2022078460	+91 80888 28785	male	Gadhinglaj	student	bachelor4yr	btech	Computer Science and Engineering	None	2	Jan-Apr 2024	
26	Ravikiran Rajendra Khairmode	noc24-cs08	An Introduction to Artificial Intelligence	2023077974	+91 81809 11823	male	Hatkanangle	student	bachelor3yr	btech	Computer Science and Engineering	None	None	Jan-Apr 2024	
27	Kishor joshi	noc24-me24	Advanced Robotics		+91 98864 20454	male	Gadhinglaj	faculty	masters		Mechanical Engineering	None	2	Jan-Apr 2024	
28	Ashwini Piraji Dorugade	noc24-cs58	Discrete Mathematics	2022086166	+91 75074 59046	female	Gadhinglaj	student	bachelor4yr	btech	Electronics and Communication Engineering	None	3	Jan-Apr 2024	
29	Shirish Ashok Lohar	noc24-ce54	Advanced Topics in Science and Technology of Concrete	2022087105	+91 74482 68451	male	Kagal	student	diploma	btech	Civil Engineering	None	2	Jan-Apr 2024	
30	Mahadev Shamrav Jadhav	noc24-ee39	Design Of Power Electronic Converters	2023081994	+91 90756 33672	male	Panhala	student	bachelor4yr	btech	Electrical Engineering	None	2	Jan-Apr 2024	
31	Moture Manali Parasharam	noc24-cs11	Advanced Computer Networks	67	+91 91460 77658	female	Gadhinglaj	student	bachelor3yr	btech	Electronics Engineering	None	2	Jan-Apr 2024	
32	Moture Manali Parasharam	noc24-cs19	Computer Networks And Internet Protocol	67	+91 91460 77658	female	Gadhinglaj	student	bachelor3yr	btech	Electronics Engineering	None	2	Jan-Apr 2024	
33	Moture Manali Parasharam	noc24-cs44	Programming in Modern C++	67	+91 91460 77658	female	Gadhinglaj	student	bachelor3yr	btech	Electronics Engineering	None	2	Jan-Apr 2024	
34	Moture Manali Parasharam	noc24-cs58	Discrete Mathematics	67	+91 91460 77658	female	Gadhinglaj	student	bachelor3yr	btech	Electronics Engineering	None	2	Jan-Apr 2024	
35	Moture Manali Parasharam	noc24-ee46	Microprocessors and Microcontrollers	67	+91 91460 77658	female	Gadhinglaj	student	bachelor3yr	btech	Electronics Engineering	None	5	Jan-Apr 2024	
36	mayur parit	noc24-ae11	Aerospace Structural Analysis	2021073820	+91 77950 01109	male	Chikodi	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024	
37	Shejal Vishnu Desai	noc24-ee10	Advanced topics in Wireless Communication (Hindi)	5	+91 75177 53762	female	Gadhinglaj	student	bachelor4yr	btech	Electrical Engineering	None	2	Jan-Apr 2024	
38	Nivedita Rajaram Rhatwal	noc24-cs11	Advanced Computer Networks	2023075980	+91 72196 93416	female	Gadhinglaj	student	bachelor3yr	btech	Computer Science and Engineering	None	4	Jan-Apr 2024	
39	Omkar Dinkar Lokhande	noc24-ee10	Advanced topics in Wireless Communication (Hindi)	26	+91 77759 17664	male	Gadhinglaj	student	bachelor4yr	btech	Electrical Engineering	None	None	Jan-Apr 2024	
40	Shailesh Chandrakant chavan	noc24-cs06	Advanced Computer Architecture		+91 79720 80206	male	Gadhinglaj	faculty	masters		Computer Science and Engineering	None	4	Jan-Apr 2024	
41	Purushottam Gorakh panasare	noc24-cs11	Advanced Computer Networks	22	+91 93097 10015	male	Kadegaon	student	bachelor4yr	btech	Computer Science and Engineering	None	2	Jan-Apr 2024	
42	Parth Vinod Musale	noc24-cs02	Introduction to programming in C	2022078671	+91 74993 24416	male	Kagal	student	bachelor4yr	btech	Computer Science and Engineering	None	2	Jan-Apr 2024	
43	Patil Ankita Anant	noc24-cs58	Discrete Mathematics	2022086026	+91 87674 80971	female	Chandgad	student	bachelor4yr	btech	Electronics and Communication Engineering	None	4	Jan-Apr 2024	
44	Prabhakar Bhaskar Kamble	noc24-me13	Mechatronics	2021072397	+91 86238 51581	male	Kagal	student	bachelor4yr	btech	Mechanical Engineering	None	None	Jan-Apr 2024	
45	Pooja	noc24-ce45	Introduction to Civil Engineering Profession		+91 98500 83107	female	Gadhinglaj	faculty	masters		Civil Engineering	None	2	Jan-Apr 2024	
46	Prachi Shivaji Chothe	noc24-cs08	An Introduction to Artificial Intelligence	2023078228	+91 93223 97276	female	Gadhinglaj	student	bachelor3yr	btech	Computer Science and Engineering	None	4	Jan-Apr 2024	
47	Pradip Pan durang Patil	noc24-me68	Cryogenic Hydrogen Technology	2021072044	+91 82370 04674	male	Gadhinglaj	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024	
48	Prasad vitthal Konduskar	noc24-me13	Mechatronics	34	+91 70832 06908	male	Pune City	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024	
49	Prasad vitthal Konduskar	noc24-me51	Mechanics of Sheet Metal Forming	34	+91 70832 06908	male	Pune City	student	bachelor4yr	btech	Mechanical Engineering	None	2	Jan-Apr 2024	
50	Sakshi Anil Patil	noc24-cs08	An Introduction to Artificial Intelligence	2023077958	+91 93567 73977	female	Gadhinglaj	student	bachelor3yr	btech	Computer Science and Engineering	None	None	Jan-Apr 2024	
51	VINAYAK SHIVGONDA PATIL	noc24-ce08	Development and Applications of Special Concretes		+91 83088 42332	male	Gadhinglaj	faculty	masters		Civil Engineering	None	4	Jan-Apr 2024	
52	nilesh narayan chougale	noc24-ee10	Advanced topics in Wireless Communication (Hindi)	2021073473	+91 91726 81500	male	Bhudargad	student	bachelor4yr	btech	Electrical Engineering	None	4	Jan-Apr 2024	
53	nilesh narayan chougale	noc24-ee39	Design Of Power Electronic Converters	2021073473	+91 91726 81500	male	Bhudargad	student	bachelor4yr	btech	Electrical Engineering	None	4	Jan-Apr 2024	
54	Rajesh Ramesh Savant	noc24-me13	Mechatronics	42	+91 91585 99074	male	Ajara	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024	
55	Rohit Uttam Bhosale	noc24-me13	Mechatronics	2021072316	+91 80808 50272	male	Panhala	student	bachelor4yr	btech	Mechanical Engineering	None	2	Jan-Apr 2024	
56	Rutika Guruprasad kamalakar	noc24-cs13	AI-Constraint Satisfaction	2023078801	+91 73856 53203	female	Karvir	student	bachelor3yr	btech	Computer Science and Engineering	None	2	Jan-Apr 2024	
57	Rutuja chandrakant Padekar	noc24-cs08	An Introduction to Artificial Intelligence	2023083468	+91 72495 18697	female	Kagal	student	bachelor3yr	btech	Computer Science and Engineering	None	4	Jan-Apr 2024	
58	Sachin Dilip Dhobale	noc24-me51	Mechanics of Sheet Metal Forming	2021072336	+91 72049 46949	male	Gadhinglaj	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024	



59	Sachin Dilip Dhobale	noc24-me74	Introduction to Solidification Processing	2021072336	+91 72049 46949	male	Gadhinglaj	student	bachelor4yr	btech	Mechanical Engineering	None	-4	Jan-Apr 2024
60	Sahil Shivaji Horemble	noc24-ee10	Advanced topics in Wireless Communication (Hindi)	2023038765	+91 82750 49905	male	Gadhinglaj	student	bachelor4yr	btech	Computer Science and Engineering	None	1	Jan-Apr 2024
61	Sakshi Amar Borgave	noc24-cs14	Artificial Intelligence: Knowledge Representation And R	2022078636	+91 96208 11314	female	Chikodi	student	bachelor4yr	btech	Computer Science and Engineering	None	2	Jan-Apr 2024
62	Samruddhi Sakharan Ingavale	noc24-ee71	Communication Networks	2023077989	+91 76205 37748	female	Karvir	student	bachelor3yr	btech	Electronics and Communication Engineering	None	2	Jan-Apr 2024
63	Sarjao Chandrakant Powar	noc24-ee66	Nonlinear and Adaptive Control		+91 99230 73774	male	Gadhinglaj	faculty	diploma		Electrical Engineering	None	2	Jan-Apr 2024
64	Shailesh Chandrakant Chavan	noc24-ar03	Environmental Impact Assessment		+91 96576 09920	male	Gadhinglaj	faculty	masters		Civil Engineering	None	None	Jan-Apr 2024
65	SHYAMALA TUKARAM BARGE	noc24-ma10	An invitation to Topology		+91 93702 45867	female	Gadhinglaj	faculty	masters		Mathematics	None	None	Jan-Apr 2024
66	Shreenivas	noc24-cs19	Computer Networks And Internet Protocol	8	+91 70387 83461	male	Chandgad	student	bachelor4yr	btech	Computer Science and Engineering	None	None	Jan-Apr 2024
67	Shreya Kiran Ingawale	noc24-ee10	Advanced topics in Wireless Communication (Hindi)	15	+91 83809 14047	female	Gadhinglaj	student	bachelor4yr	btech	Electrical Engineering	None	2	Jan-Apr 2024
68	SHUBHAM JAYWANT DESAI	noc24-cs47	Software Testing	07	+91 83904 25236	male	Chandgad	student	bachelor4yr	btech	Computer Science and Engineering	None	4	Jan-Apr 2024
69	Shubham Satappa Parit	noc24-ee10	Advanced topics in Wireless Communication (Hindi)	2021073466	+91 73870 07854	male	Kagal	student	bachelor4yr	btech	Electrical Engineering	None	1	Jan-Apr 2024
70	Shubham Satappa Parit	noc24-ee39	Design Of Power Electronic Converters	2021073466	+91 73870 07854	male	Kagal	student	bachelor4yr	btech	Electrical Engineering	None	4	Jan-Apr 2024
71	Shweta Siddappa bandi	noc24-cs11	Advanced Computer Networks	2023078997	+91 95798 20911	female	Gadhinglaj	student	bachelor3yr	btech	Computer Science and Engineering	None	2	Jan-Apr 2024
72	SHRIPAD PUNDALIK BAGADI	noc24-ph02	A Brief Course On Superconductivity		+91 99605 44304	male	Gadhinglaj	faculty	masters		Mechanical Engineering	None	None	Jan-Apr 2024
73	Samiksha suhas kolekar	noc24-ee11	Analog Circuits	2023037266	+91 99700 35875	female	Ajara	student	pre_university	btech	Electronics and Communication Engineering	None	1	Jan-Apr 2024
74	Mr. Suraj R. Wadagule	noc24-ce46	Concrete Technology		+91 77190 37091	female	Ajara	student	bachelor4yr	btech	Computer Science and Engineering	None	1	Jan-Apr 2024
75	Neha vishwas desai	noc24-cs14	Artificial Intelligence: Knowledge Representation And R	2023030677	+91 86985 43280	male	Gadhinglaj	student	bachelor4yr	btech	Computer Science and Engineering	None	1	Jan-Apr 2024
76	Tejas Basavant Regade	noc24-cs11	Advanced Computer Networks	2023030287	+91 88559 71370	female	Satara	student	bachelor4yr	btech	Computer Science and Engineering	None	2	Jan-Apr 2024
77	Vaishnavi	noc24-cs14	Artificial Intelligence: Knowledge Representation And R	2022078646	+91 87666 43911	female	Gadhinglaj	student	bachelor4yr	btech	Computer Science and Engineering	5.22271E+11	4	Jan-Apr 2024
78	Varsharani Suresh Chothe	noc24-cs06	Advanced Computer Architecture	2023030065	+91 98815 98388	male	Chandgad	student	bachelor4yr	btech	Electronics and Communication Engineering	None	1	Jan-Apr 2024
79	Vikram Arun Kutre	noc24-cs02	Introduction to programming in C	08	+91 86050 40911	male	Pune City	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024
80	Yogesh Narayan Patil	noc24-me13	Mechatronics	68	+91 86050 40911	male	Pune City	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024
81	Yogesh Narayan Patil	noc24-me51	Mechanics of Sheet Metal Forming	68	+91 86050 40911	male	Pune City	student	bachelor4yr	btech	Mechanical Engineering	None	4	Jan-Apr 2024



*Dr. A. D. Shinde*  
**Librarian**  
 Dr.A.D.Shinde College of Engineering  
 Gadhinglaj (Bhailgaon), Dist. Kolhapur



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**MANALI PARASHARAM MOTURE**  
for successfully completing the course

## Computer Networks and Internet Protocol

with a consolidated score of **53** %

Online Assignments	22.81/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **9310**

**Jan-Apr 2024**

**(12 week course)**

**Prof. Haimanti Banerji**

Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS19S459600728

To verify the certificate



No. of credits recommended: 3 or 4

# **Video Lectures from IIT**





# Video Lectures from IIT

## Introduction to semiconductors

### Course outline

How does an NPTEL online course work?

Basics of semiconductor physics

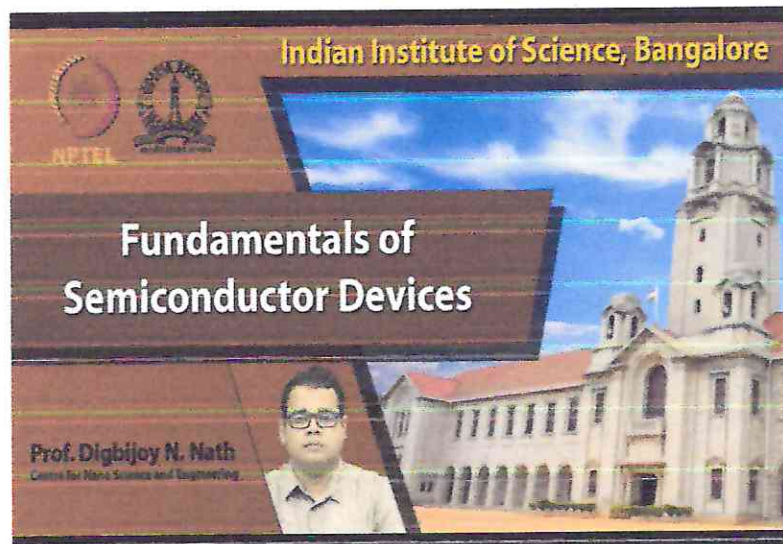
- Introduction to semiconductors
- Introduction to energy bands
- Fundamentals of band structure
- Band structure (contd.) and Fermi-Dirac distribution
- Density of states
- Quiz: Assignment 1

Equilibrium carrier concentration

Carrier transport

p-n junction

Applications of p-n junctions and details of metal-semiconductor junction



Ask a question

## Lecture 01 : PMMC Instrument (M)

### Course outline

How to access the portal

Week 0 : Assignment 0

Week 1

- A general advice
- Lecture 01 : PMMC Instrument (M)
- Lecture 02 : Electrodynamometer Instrument (M)
- Lecture 03 : Demonstration of PMMC and Electrodynamometer Instrument (Ad)
- Lecture 04 : Features of PMMC and Electrodynamometer Instrument (M)
- Lecture 05 : Moving Iron Instruments (M)
- Lecture 06 : Demonstration of Moving Iron Instrument (Ad)
- Lecture 07 : Electrostatic Instrument (M)
- Lecture 08 : Derivation of



# Swayam / NPTEL



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NPTEL » Electric Vehicles - Part 1

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## Intro EV Historical\_Background

### Course outline

How does an NPTEL online course work?

Assignment Zero

Week 1

- Intro EV Historical\_Background
  - Intro EV Benefits of Using Evc
  - Intro EV Overview of types of Evc and its Challenges
  - Intro EV Motor Drive Technologies
  - Intro EV Energy Source Technologies
  - Intro EV Battery Charging Technologies
  - Intro EV vehicle to Grid
  - Quiz: Assignment 1
  - Week 1 Feedback Form
- Week 2



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NPTEL » Fundamentals of Electrical Engineering

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## Lecture No 1: Basic Concepts, Examples

### Course outline

How does an NPTEL online course work?

Week 0

Week 1

- Lecture No 1: Basic Concepts, Examples
  - Lecture No 2: Basic Concepts, Examples (Contd.)
  - Lecture No 3: Basic Concepts, Examples (Contd.)
  - Lecture No 4: Basic Concepts, Examples (Contd.)
  - Lecture No 5: Basic Laws
  - Lecture Material of Week 1
  - Quiz: Week 1 Assignment 1
  - Feedback for Week 1
- Week 2
- Week 3

