

2.3.2. Teachers use ICT enabled tools for effective teaching-learning process.

At ICEM, educators leverage technology to create a dynamic and engaging learning environment that enhances both teaching and learning processes. Here's a closer look at the various tech-driven tools and approaches used:

ICT Integration for Enhanced Learning:

Information and Communication Technology (ICT) empowers teachers to deliver content effectively and interactively. By using multimedia tools like PowerPoint presentations, videos, and online resources, educators present ideas in ways that appeal to different learning styles and improve student understanding.

Wi-Fi Enabled Campus:

The campus-wide Wi-Fi ensures seamless internet connectivity for both teachers and students. This connectivity allows access to the latest information, helping students stay up-to-date with current knowledge and industry trends.

Modern Learning Resources:

The college's Automated Library and Lecture Recording Room enhance the learning experience, providing resources for self-study and reviewing lectures. The library's automation ensures students can easily access digital resources, while recorded lectures enable them to revisit key concepts anytime.

Equipped Computer Labs:

Computer labs with updated software, such as C, C++, Python, R, Java, and Microsoft Office, meet curriculum needs and give students hands-on experience with industry-relevant tools.

Online Learning Platforms and Interactive Tools:

Teachers have adapted to using online platforms like Google Meet, Zoom, and Microsoft Teams, enabling flexibility for remote and hybrid learning. Faculty Development Programs (FDPs) train educators to effectively use these platforms, ensuring smooth online sessions.

Digital Content and e-Resources:

Teachers enhance lecture quality by integrating e-books, educational videos, TED Talks, and YouTube, Edpuzzel, Muddy Points, Menti-meter content into lessons. This multimedia approach fosters critical thinking and allows students to learn from global knowledge sources.

Resource Sharing Through Various Platforms:

Reading materials, short notes, and e-books are shared via Google Classroom, Microsoft Teams, email, the college portal, WhatsApp, OneDrive, Microsoft Notebook and other platforms, giving students easy access to study materials. This multi-platform sharing caters to different preferences, ensuring students have ample resources for their studies.

Through these initiatives, ICEM teachers ensure that technology is optimally used to foster a supportive, resource-rich learning environment that prepares students for the digital age.




Principal
Indira College of Engineering
Management, Parandwadi, Pune



Ref: ICEM/MCA/2022/

Date: 15/07/2023

Department of MCA

Report on ICT Tools used in Academic Year 2022-2023

PowerPoint (PPT) Presentations: PowerPoint presentations continued to be a prevalent tool for both faculty and students in the MCA department. The following aspects were observed:

- a. **Lecture Delivery:** Faculty members extensively employed PPTs to deliver lectures, making use of multimedia elements to enhance engagement and understanding.
- b. **Student Projects and Seminars:** MCA students utilized PPTs to present their projects and seminar topics, showcasing their research, analysis, and problem-solving skills effectively.
- c. **Visual Aids:** PPTs acted as valuable visual aids, assisting both students and faculty in comprehending complex concepts and processes.

• **Google Classroom:** Google Classroom emerged as a powerful virtual learning environment, fostering seamless communication and collaboration between instructors and students. The adoption of Google Classroom witnessed the following highlights:

- a. **Assignment Management:** Faculty members used Google Classroom to distribute assignments, receive submissions, and provide feedback efficiently.
- b. **Announcement and Discussion:** Important announcements and class-related discussions were carried out through the platform, ensuring timely communication.
- c. **Resource Sharing:** Course materials, including lecture slides, reference materials, and supplementary resources, were shared on Google Classroom for easy access.
- d. **Grading and Evaluation:** Google Classroom's integration with Google Suite simplified the grading process, streamlining assessment and evaluation.

Overall Impact: The integration of PPTs and Google Classroom had several positive impacts on the academic year:

The academic year 2022-23 witnessed the impactful use of ICT tools like PowerPoint presentations and Google Classroom in the MCA department. These tools facilitated effective teaching, learning, and collaboration, while also presenting opportunities for improvement and future development. The department remains committed to leveraging technology to enrich the educational experience and prepare students for the digital age.



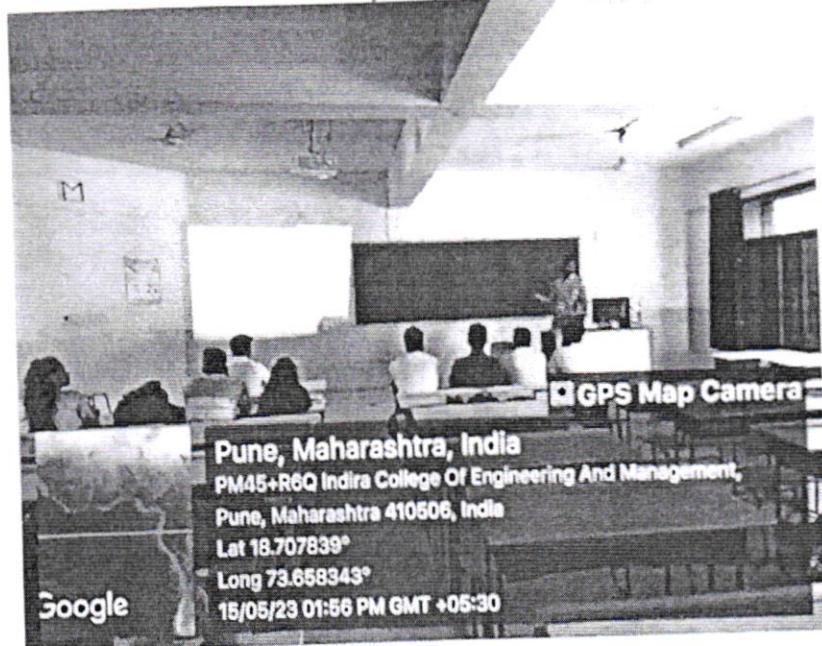


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PPT Used By Subject Teachers



Mr. Bhushan Nikam
Academic Coordinator

Dr. Darshana Desai
HOD (MCA)




Principal
Indira College of Engineering
& Management, Parandwadi, Pune



Ref: ICEM/MCA/2023-2024/ 192

Date: 17/04/2024

Department of MCA

Report on ICT Tools used in Academic Year 2023-2024

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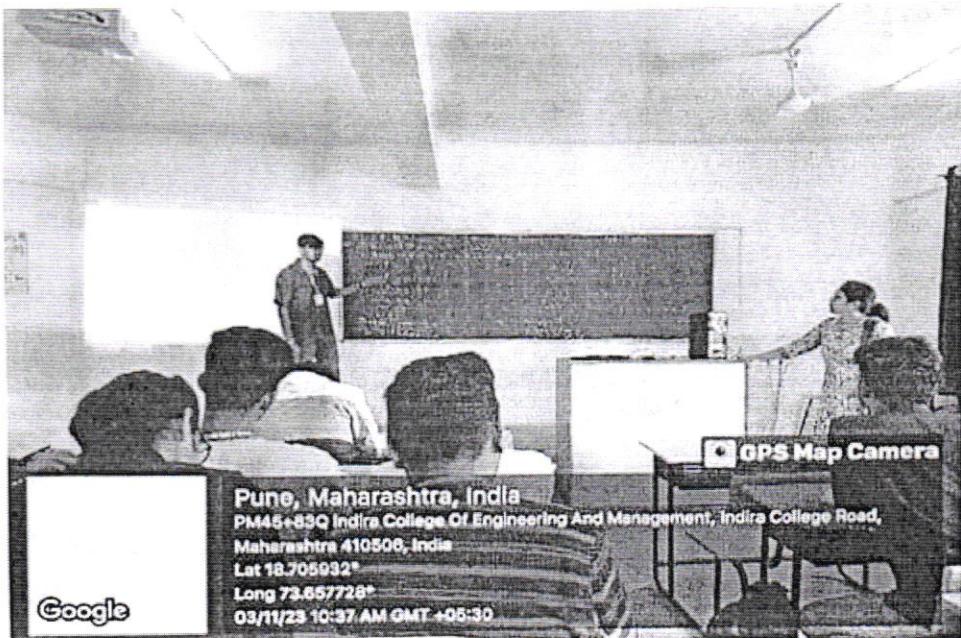




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PPT, Board Used By Subject Teachers



Mr. Milind Deshpande
Academic Coordinator



Dr. Darshana Desai
HOD (MCA)




Principal
Indira College of Engineering
& Management, Parandwadi, Pune

SHREE CHANAKYA EDUCATION SOCIETY'S

INDIRA COLLEGE OF ENGINEERING AND MANAGEMENT



Approved By AICTE New Delhi, DTE (MS) and Affiliated to Pune University (Id-No. PU/PN/Engg/282/2007)

Department of Computer Engineering

Report on ICT tools usage

Date: 18/4/2024 (A.Y. 2023-24)

"We need technology in every classroom and in every student and teacher's hand, because it is the pen and paper of our time, and it is the lens through which we experience much of our world." - David Warlick

ICT is widely used in our everyday life, and its need is ever-growing in the education sector. Images, audios, videos, presentations, or a combination of these used for teaching constitute ICT in education.

We, at Computer Engineering Department, utilize different ICT tools in teaching learning process. We conduct Theoretical lectures and demonstration of Practical assignments on Projectors by using PowerPoint presentation.

Departmental Files are digitized on One Drive. Student's academic feedback is taken using Google forms. Individual faculties make use of One drive for storing their Course materials which are shared with students.

Important notifications are being shared on official email and whatsapp group for the faster communication to both students and parents.

Prof. Dipali Junankar
Prof. Rupali Adhau
Academic Coordinators


Dr. Vikas Nandgaonkar
I/C HOD



Forms Course Exit Survey (Artificial Intelligence) - saved

Questions Responses 30 Collect responses

Course Exit Survey (Artificial Intelligence)

1. Roll Number *

Enter your answer

2. Name of Student *

Enter your answer

3. Does this course helps you to understand the concept of Artificial Intelligence (Q01) -

Excellent (5)

Very Good (4)

Good (3)

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INDIRA OneDrive

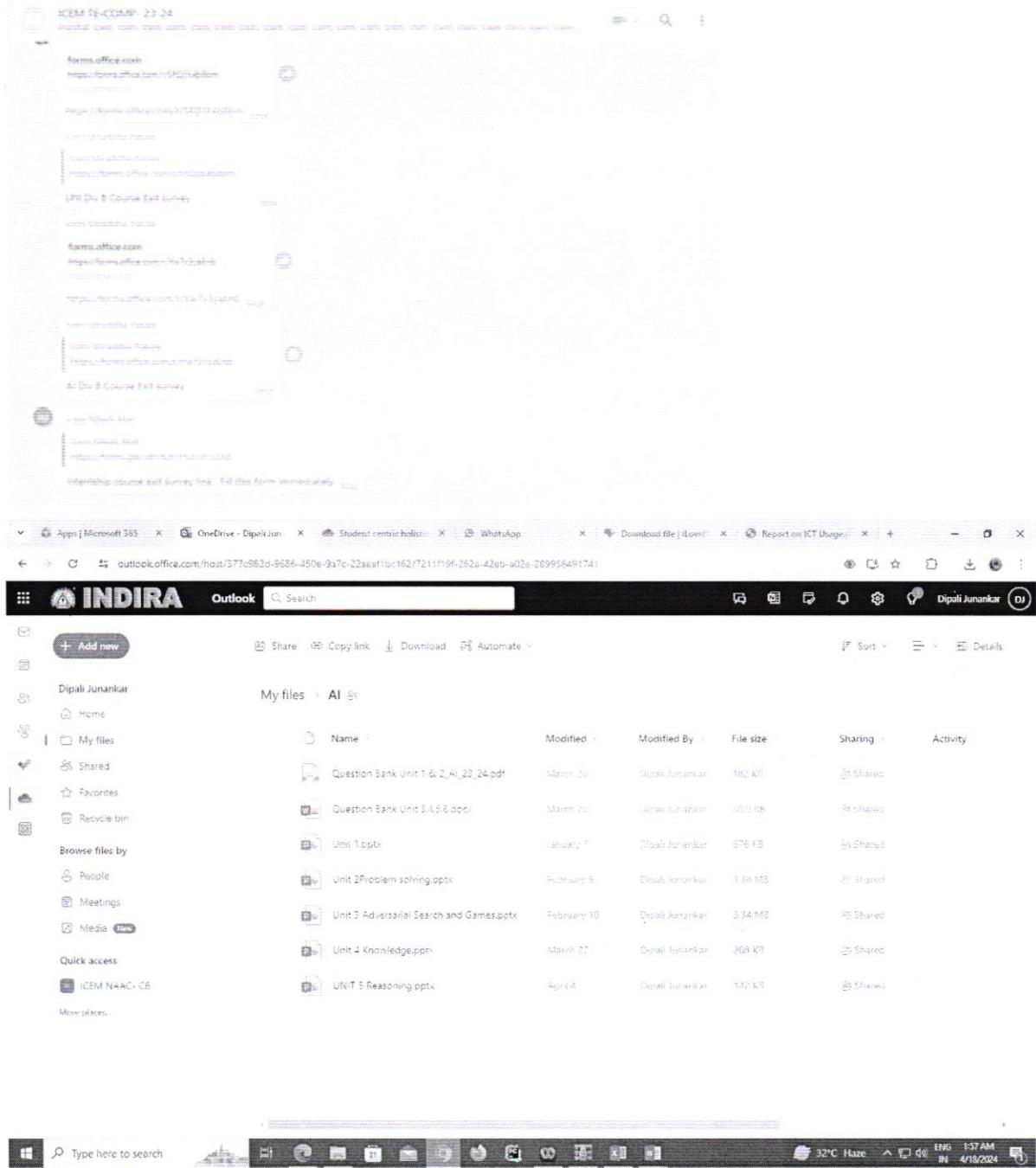
+ New Upload Download

My files > ICEM_Computer_Dept

Name	Modified	Modified By	File size	Sharing	Activity
Academic_Year_23-24	Aug 18, 2023	Dr. Virendra Narogade	14 items	Shared	1 file download by Neel Makwana on Aug 18, 2023
Academics	June 29, 2023	HOD-COMP	17 items	Shared	
Alumni PA Panel	August 21, 2023	Shivkrant Taware	1 item	Shared	
Autonomy	June 29, 2023	HOD-COMP	2 items	Shared	
CO_Extra_Curricular_Activities	June 29, 2023	HOD-COMP	0 items	All Shared	
Department File 20-22	June 29, 2023	HOD-COMP	0 items	Shared	
Exam	June 29, 2023	HOD-COMP	7 items	Shared	
Internship	June 29, 2023	HOD-COMP	2 items	Shared	
IOT SUBSCRIPTION	January 7	Shivkrant Taware	1 item	Shared	
MeM	June 29, 2023	HOD-COMP	0 items	Shared	

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Department of Basic Engineering

Report on ICT tools usage

Date: 12/02/2024

Details:

“Teaching in the Internet age means we must teach tomorrow’s skills today”.
ICT (Information and Communication Technology) refers to efficient management of information with the use of hardware and software.
Can be used to transmit, store, create, share or exchange particular task. It plays a very important role in the way we communicate, learn and live.

We at Basic Engineering Department use MS teams for conducting lectures, giving assignments, evaluation, conducting quiz, attendance, share the study material and create teams for different divisions.

Use one drive for multiple accessing of the data shared on cloud and perform the collaborative tasks, storing the recordings of the lectures.

Whiteboard is used as a digital canvas for sharing the content.

We also have created YouTube channel in which we have shared the practical recordings, numerical solving methods, explanation for difficult topics, so that the students can view the videos as per their convenience.

Many of us use power point presentations for delivering the lectures, share the links for NPTEL videos, links for e-books, MCQs solving methods.

At the beginning we also use Zoom for conduction of bridge course, as the students mail ID of Microsoft Outlook are being created after the confirmation of admission. Once the students get the mail ID we gradually shift to MS teams and train the students and make them familiar with all the tools available in MS teams.

Parent Teachers Meet are also conducted on Zoom, as the parents do not have the MS mail ID.

Google classroom is also used for sharing the content, google forms for conducting exams and evaluating and posting the results, attendance marking, and getting feedbacks from students.





Cameras have been installed in each classroom for virtual view of black board teaching.

Important notifications are being shared on Telegram Channel for the faster communication both to students and parents.

Links:

Coursera Links:

Sr. No.	Name of course	Course link
1	AutoCAD for Design and Drafting Exam	https://www.coursera.org/learn/autodesk-autocad-design-drafting
2	3D CAD Fundamental	https://www.coursera.org/learn/3d-cad-fundamental
3	Autodesk CAD/CAM/CAE	https://www.coursera.org/specializations/autodesk-cad-cam-cae-mechanical-engineering
4	CAD and Digital Manufacturing	https://www.coursera.org/specializations/cad-design-digital-manufacturing

Journal Articles:

Sr. No.	Technical article Link
1	http://www.cimt.org.uk/journal/sinanolkun.pdf
2	https://www.sciencedirect.com/science/article/abs/pii/0734189X90901118
3.	https://www.jstor.org/stable/pdf/jeductechsoci.9.3.149.pdf?seq=1
4.	https://www.jstor.org/stable/3106007?seq=1
5.	https://www.tandfonline.com/doi/abs/10.1080/22054952.2010.11464037

e-Book Links:

Sr. No.	Name	e-Book Link
1	A Textbook of Engineering Physics By M N Avadhanulu	https://books.google.co.in/books?id=lTUNWORcDG&lpg=PP1&pg=PA50#v=onepage&q&f=false
2	Engineering Physics	https://www.researchgate.net/publication/324190021_A_TEXTBOOK_OF_ENGINEERING_PHYSICS/link/5d3915a4a6fdcc370a5d7dc3/download





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Photographs for Assignment Evaluation on MS Teams

The screenshot shows a Microsoft Teams interface with a list of assignments. On the left, there's a thumbnail for a document titled 'FE 1 AND FE 2 (ENGINEERING...)'. The main list shows four assignments under the 'Assigned' section:

- Engineering Mathematics II Assignment number 3
Due: 16 April 2020 23:59
- Engineering Mathematics II Assignment no. 4
Due: 26 April 2020 23:59
- Engineering Mathematics II Assignment number 5
Due: 21 April 2020 23:59

On the right, there are four student names with status indicators: 'Sonal shah' (Turned in), 'Ranjeet shah' (Turned in), 'Shaleen shah' (Turned in), and 'Hrushi shah' (Turned in). Each student has a small profile picture and a 'View' link.

YouTube Channel Created by FE Faculties:

The three screenshots show YouTube channel pages:

- Dr. Avinash Bansode**: Shows a video titled 'Unit 5 Applications of Magnetic Materials 1' uploaded 2 days ago with 0 views.
- Dhiraj Bhagwat**: Shows a channel with 20 subscribers and 7 videos. A video thumbnail for 'Solved Numerical on Delta Connection' is visible.
- Pratima Uplaonkar**: Shows a channel with 9 subscribers and 1 video. A video thumbnail for 'Solved Numerical on Delta Connection' is visible.

Google Classroom and Google sheets:

The screenshots show a Google Classroom interface for an online quiz:

- Quiz Links:** Several links are listed, including '20-21A & B division', 'BEEC division', 'BEE 19-20', 'Div A 19-20', '18-19 Sem 2-PG-BEE', '18-19-SEM 1-FE-KP-B...', and '18-19 Sem 1-FE-PG-B...'. There is also a link for 'ICEM-MECH-FE'.
- Quiz Form:** A form titled 'Online Quiz on "Basic Electrical Engineering"' is shown. It includes fields for 'Email' (with placeholder 'Email or phone'), 'Full Name' (with placeholder 'Enter answer here'), and a note about the quiz being a closed-form quiz.

Bisaud
Academic Coordinator
Mrs. Pratima Gaikwad



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HOD
Dr. Kiran Devade

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BN
Principal

Indira College of Engineering & Management
Parandwadi Pune-410506

Mechanical Engineering Department

ICT tool Usage (AY 23-24)

Department	Sem	Class(Pattern)	Name of Subject	ICT tool Used	ICT Resource Link	ICT Resource Link
Mechanical	I	SE(2019)	Engineering Materials and Metallurgy	Video & PPT	https://classroom.google.com/c/NTIzMjI0NzE0NTUw/p/NjM1OTc1Mjc1MTA5/details	https://classroom.google.com/c/NTIzMjI0NzE0NTUw/p/NTIzMjI0NzMzMDAz/details
Mechanical	I	SE(2019)	Electrical and Electronics Engineering	PPT & Video	https://indiraicemac-my.sharepoint.com/:f/g/personal/rupali_salanke_indiraicem_ac_in/Ej25ssKGczlEvgzFOGZRzFEB2-	https://indiraicemac-my.sharepoint.com/:f/g/personal/rupali_salunke_indiraicem_ac_in/EmVw09RqdcFCi0StqYcQ-hMBDrBSRhNdj3q5kifo0B3uhA?e=JB55uc
Mechanical	I	SE(2019)	Solid Modelling and Drafting	PPT & NPTEL Video	https://archive.nptel.ac.in/courses/112/102/12102101/	https://www.a4u.co.in/siddheshwarshirbhate#Solid%20Modeling%20and%20Drafting
Mechanical	I	SE(2019)	Engineering Thermodynamics	Chalk Board & PPT	https://archive.nptel.ac.in/courses/112/10/6/112106310/	https://my.sharepoint.com/:f/g/personal/ashwini_admane_indiraicem_ac_in/EppC1OQV7WRljQNov14WTMB7mvejrasQiBHz2zyHZfBcA?e=JUddA
Mechanical	I	SE(2019)	Solid Mechanics	Chalk Board & PPT	https://nptel.ac.in/courses/112/102/112102284/	https://archive.nptel.ac.in/courses/112/102/112102284/
Mechanical	I	TE(2019)	Numerical and statistical Methods	Chalk Board & PPT	https://www.a4u.co.in/maheshbhong#UG%20NSM	https://www.a4u.co.in/maheshbhong#UG%20NSM
Mechanical	I	TE(2019)	Mechatronics	PPT & Video	https://www.tinkercad.com/dashboard?type=all&collection=lessons	https://archive.nptel.ac.in/courses/112/107/112107298/
Mechanical	I	TE(2019)	Design of Machine Elements	PPT	https://nptel.ac.in/courses/111107105	https://archive.nptel.ac.in/courses/112/101/112101097/
Mechanical	I	TE(2019)	Heat and Mass Transfer	PPT	https://archive.nptel.ac.in/courses/112/10/8/112108149/	https://www.vlab.co.in/
Mechanical	I	BE(2019)	HVAC	PPT NPTEL video	https://archive.nptel.ac.in/courses/112/10/5/112105129/	https://classroom.google.com/u/1/c/NTM4OTI2OTI1NjQ1
Mechanical	I	BE(2019)	Turbomachinery	PPT & Video	https://www.a4u.co.in/hemantdarokar#BE%20Turbomachinery	https://nptel.ac.in/courses/112105182
Mechanical	I	BE(2019)	Dynamics of Machinery	PPT and video	https://classroom.google.com/c/Mzg2NTk0NTA0Nzk2	https://archive.nptel.ac.in/courses/112/101/112101096/



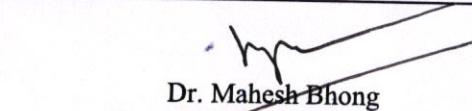

Head of Department
 (HOD(Mechanical))
 Indira College of Engineering and Management
 Parandwadi, Pune 410 506

Mechanical Engineering Department

ICT tool Usage (AY 23-24)

Department	Sem	Class(Pattern)	Name of Subject	ICT tool Used	ICT Resource Link	ICT Resource Link
Mechanical	II	SE(2019)	Kinematics of Machinery	PPT, Animated Videos	https://www.a4u.co.in/ashwinigaikwad#SE-Kinematics%20of%20Machines	
Mechanical	II	SE(2019)	Fluid Mechanics	PPT, Animations Youtube	https://nptel.ac.in/courses/112104118	https://www.a4u.co.in/ashwinigaikwad#SE-Kinematics%20of%20Machines
Mechanical	II	SE(2019)	Engineering Mathematics - III	PPT & NPTEL Videos	https://archive.nptel.ac.in/courses/111/108/11108081/	https://archive.nptel.ac.in/courses/111/104/111104032/
Mechanical	II	SE(2019)	Manufacturing Process	PPT and Video	https://archive.nptel.ac.in/courses/112/107/12107144/	https://archive.nptel.ac.in/courses/112/107/112107144/
Mechanical	II	TE(2019)	Design of Transmission System	PPT & Video	https://nptel.ac.in/courses/111107105	https://archive.nptel.ac.in/courses/112/101/112101097/
Mechanical	II	TE(2019)	Artificial Intelligence and Machine Learning	PPT & NPTEL Videos	https://www.a4u.co.in/maheshbhong#UG%20AIML	https://www.a4u.co.in/maheshbhong#UG%20AIML
Mechanical	II	TE(2019)	Surafce Engineering	PPT & NPTEL Videos	https://classroom.google.com/c/NjAxNTcwODUzMzM5/p/Njc4MjQyOTY4OTE2/details	https://classroom.google.com/c/NjAxNTcwODUzMzM5/p/NjY2NDQ0MTEwNzI2/details
Mechanical	II	BE MECH	Energy Engineering	PPT, Animated Videos,	https://classroom.google.com/u/1/c/NjE3ODM3Mzl1NDc2	https://nptel.ac.in/courses/103103206
Mechanical	II	BE MECH	Electric & Hybrid Vehicle	PPT, Animated Videos, W	https://onlinecourses.nptel.ac.in/noc24_ee30/preview	https://classroom.google.com/u/3/c/NjQ2OTQyMjcwMDMw
Mechanical	II	BE MECH	Energy Audit and Mangement	PPT, Animated Videos, W	https://nptel.ac.in/courses/108106022	https://indiraicemac-my.sharepoint.com/:r/personal/ashwini_admane_indiraicem_ac_in/Documents/Energy%20Audit?csf=1&web=1&e=TlkqJs
Mechanical	II	BE MECH	Computer Intergrated Manufacturing	PPT & Video	https://www.a4u.co.in/hemantdarokar#BE%20Computer%20Integrated%20Manufacturing	https://nptel.ac.in/courses/112104289




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