



Lokmanya Tilak Jankalyan Shikshan Sanstha's
Lokmanya Tilak College of Engineering
Sector-4, Vikas Nagar, Koparkhairane, Navi Mumbai



(Approved by AICTE, Affiliated to University of Mumbai, & Accredited by NAAC)

DEPARTMENT OF COMPUTER ENGINEERING

**QR code for Innovations by the
Faculty in Teaching and Learning**





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In view of strengthening the teaching-learning process, teachers adopt innovative methods for content delivery. The activities used in the teaching and learning process contribute to the student's overall development.

In the Department of Computer Science and Engineering, much importance is given for incorporating innovative techniques in teaching.

Teaching and learning is not only limited to the use of traditional chalk and blackboard teaching method but faculty also use the modern techniques (i.e. PowerPoint Presentation, audio-visual teaching) .

The goals of innovative practices in the teaching-learning process are to make the students get insight knowledge, skill sets and, in the course, and obtain good grades in the End Semester examinations.

The list of innovative practices followed in teaching-learning processes is listed below:

Sr.no.	Innovations by the Faculty in Teaching and Learning
1	Teaching through ICT enabled Classrooms:
2	Virtual Teaching - Learning through Google Classroom,Gmeet
3	Learning through e-content (ppt ,online notes),YouTube channel,recorded online lectures
4	Learning through Course certification courses like NPTEL,coursera
5	Learning by Industrial Visit
6	Learning by Research Paper (publish in conference,international journal)

7	Teaching Through Group discussions
8	Teaching through Flipping Classroom
9	Learning through Assignments given by the subject teacher.
10	Learning through Project exhibition/competition
11	Learning through Students participating in hackathons /Avishkar (Inter-Collegiate / Institute / Department Research Convention by Mumbai University)
12	Learning through expert lectures, delivered by experienced and technically sound resource persons.



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Innovations by the Faculty in Teaching and Learning

Sr. No	Name of Faculty	Innovation Methods	Type of Activity	Course	Outcome	One page document link after uploading in the folder
2	Dr Sheeba P. S.	Google classroom, YouTube video lecture	ICT, video lecture	Data Structure, Database management System, Data Warehousing & Mining	Google classroom for sharing the study materials, question banks and assignments. Students use Youtube videos for better learning experience in addition to the classroom teaching and as an exam reference material for understanding the topics.	https://www.youtube.com/@sheebaps/playlists
3	Dr. Smita Ambarkar	PeerL Learning	Presentation	Distributed Computing	Google File System	https://docs.google.com/document/d/1ill2HP1n4JLNIfg0KUFd7NrvihlZagdqwl0_f-8Que4/edit
4	Ms. Chitra T. Wasnik	Flip Classroom	Use case study using flip classroom	Social Media Analysis	Students read and gain knowledge about the topic. It also increases communication skills and self learning capability.	https://drive.google.com/file/d/1cSVB5kq5hQGIPGVHvzWZ-xNiZpvLO8DK/view?usp=sharing

		Google Classroom	ICT	Social Media Analysis	Google classroom for sharing the study materials, question banks and assignments.	
5	Mr. Rajendra D. Gawali	SQL Query test	MCQ	Database Management System	Realization of SQL query knowledge	https://drive.google.com/drive/folders/1wJEaQgMzRcB01xlGmxzQPcMbo30_RNhs?usp=drive_link
		Group Discussion	Discussing & Presenting DBMS lab case studies in practical sessions	Database Management System	Subject knowledge, Problem analysis, Communication Skills, and Self Learning	
		Subject theory Quiz	MCQ	Database Management System	Realization of theory subject knowledge	
		Project based Learning	Students have developed course project	Data Warehousing and Mining	To inculcate the critical thinking ability among the students,, Development of self-learning Enhancement of presentation skills, Expansion of subject knowledge	
6	Mr. Sanjay D. Naravadkar	Uploading technical contents on my blog since February 2017.	notes	MP,SPCC,DLCA etc	Better understanding and Realization of subject knowledge	profsanjaynaravadar.blogspot.com
			Google Classroom	DLCA,SPCC	Technical contents of subjects like DLCA, SPCC are uploaded here.	v4x4b7q, ovjgbkl, ibvyk3b
		innovation like making of any tool in software, hardware, course module etc	Diagrams edited in my presentation slides in multiple colours.	DIA	Use of DIA tool for drawing the diagrams/flowcharts	https://docs.google.com/document/d/1Yj_NWwQs-QLNtwx5xKyXKyewsZe8oYJ/edit?usp=

						drive link&oid=114071731444673755896&rt/pof=true&sd=true
7	Mr. Manish R. Umale	Subject related Quiz NPTEL, You tube video lecture	Quiz, Video lecture	TCS , AI	Realization of subject knowledge. Grasping the knowledge from IIT professors	AI:- Lecture 32: Genetic Algorithms TCS:- https://www.youtube.com/watch?v=H-olxWBSJ-o
8	Ms. Sonal A. Bankar	Subject related Quiz	Quiz	ML,CSS	Realization of subject knowledge	https://drive.google.com/file/d/1uOB0mgReMX683Ck_ddNFLJi1a186f1rq/view?usp=drive_link
		Flip Classroom	Students of 4 – 5 each in group is given a topic	ML,CSS	Better understanding and Realization of subject knowledge	
		Group Discussion	Discussing & Presenting the Concepts	ML,CSS	Self Learning good Communication Skills, Problem analysis	
		Experiential Learning	Use of Virtual lab	ML, CSS	providing an effective and efficient way for students to gain hands-on experience in course experimentation and exploration.	
		Project based Learning	Mini projects	ML	To inculcate the critical thinking ability among the students ,Development of self-learning Enhancement of presentation skills Expansion of subject knowledge Teamwork and leadership qualities	
		Case Study Based Learning	recent trends and applications of the course	CSS	improve presentation skills, technical communication and peers	

			are presented by students		received knowledge on content beyond	
		Online Digital Material and E-Books	Reference online digital material and E-books.	CSS	Tools are used to clarify the concepts and inculcate self-learning culture.	
9	Ms. Kahkashan Siddavatam	Subject related Quiz	Quiz	Internet Programming	Realization of subject knowledge	https://docs.google.com/document/d/1ioqoGvPJkhe1L_DKHggz-DpGNpkP5UpSJGKbnQi8z9c/edit?usp=sharing
		Flip Classroom	Students of 4 – 5 each in group is given a topic	Applied Data Science	Better understanding and Realization of subject knowledge	
		Group Discussion	Discussing & Presenting the Concepts	Applied Data Science	Self Learning good Communication Skills, Problem analysis	
		Experiential Learning	Experimentation by writing codes in framework.	Internet Programming	Making students to understand the Concepts	
		Project based Learning	Students have created a webpage using various web technologies like HTML,CSS,Php,mysql	Internet Programming	To inculcate the critical thinking ability among the students ,Development of self-learning Enhancement of presentation skills Expansion of subject knowledge	
		Poster presentation	Competition on Poster presentation to nurture young minds out of box innovative ideas.	Design Thinking ,IPR,Entrepreneurship and incubation management	To foster the culture to appreciate,nurture support ,and handholding the students out of box innovative ideas	
10	Ms.Sulbha S. Yadav	Group Discussion	Discussing & Presenting the Concepts	BDA,QA	Problem Analysis, Self Learning, good Communication Skills	https://docs.google.com/document/d/13GXtB6Lz0YKyTutH-NCyY9hXDx12cEoN/edit?usp=sharin

						g&ouid=106170617101444409084&rtpof=true&sd=true
		Project based Learning	Mini projects	BDA	To foster critical thinking abilities among students, we aim to cultivate self-learning, refine presentation skills, broaden subject knowledge, and nurture teamwork and leadership qualities.	
11	Ms. Shital K. Dhamal	Subject Quiz	MCQ Test is conducted after completion of each module	Operating System	Taking multiple-choice tests at the end of each module helps students understand how well they've learned the material, remember it better, see where they need to improve, and get used to the kinds of questions they might find on other tests.	https://drive.google.com/drive/folders/1MDZmtg0v-y65vEAN4I2XiW3_bjVgIAUF?usp=drive_link
		NoteBook Checking	NoteBook checking is done weekly in practical hours.	CG, OS, DSIP	Weekly checks of students' class notebook completion promote accountability, provide timely feedback, encourage organization, foster engagement, facilitate effective communication, and enhance writing practice.	
		Group Discussion	Topic 1 :- Process Scheduling Algorithms	Operating System	Group discussions have different results depending on what they're about. They can help everyone agree, make decisions, solve	

			<p>Topic 2:- Page Replacement Algorithms</p> <p>Topic 3 :- Memory Allocation Techniques</p>		<p>problems, share ideas, and exchange information. These talks also clear up confusion, settle disagreements, and help people learn and get along better. In the end, the goal is to understand each other, decide on actions, and work together better.</p>	
		Group Discussion	<p>Topic 1 :- Problem Solving On Line Drawing Algorithms</p> <p>Topic 2 : -Polygon and Line clipping Algorithms</p> <p>Topic 3 :- Animation</p> <p>Topic 4 :- 2D and 3D Transformations</p> <p>Topic 5:-Principles of Animation</p>	Computer Graphics		
		Flip Classroom	<p>Topic 1 :- Page Replacement Policies</p> <p>Topic 2 : - Least Recently used page replacement algorithm</p> <p>Toic 3 : - Round Robin Scheduling Algorithm</p>	Operating system	<p>In a flipped classroom, students learn about page replacement algorithms and process scheduling on their own from the notes shared in their G classroom. During class, time is used for discussions and problem-solving together, making these topics easier to understand. Students work with each other, which helps them</p>	

					think critically and communicate better about syllabus topics	
		Flip Classroom	<p>Topic 1 :- Principles of Animation</p> <p>Topic 2 :- Principles of Animation in project implementation</p> <p>Topic 3 :- Sutherland Hodgeman Polygon Clipping Algorithm</p> <p>Topic 4 :- Scan line Algorithm</p> <p>Topic 5 - 2D Reflection</p>	Computer Graphics		https://drive.google.com/file/d/1Zz6biO9sAbAuz005_4HNinYC-TVlfu6k/view?usp=sharing
12	Ms. Smita A. Attarde	Group Discussions	<p>Topic 1 :- Knapsack problem</p> <p>Topic 2 :- Longest Common Subsequence</p> <p>Topic 3 :- Quick Sort</p> <p>Topic 4 :- Prims and Kruskals Algorithm</p>	AOA	Problem analysis, Increase in Subject knowledge related to practical point of view, Communication Skills, and Self Learning	https://drive.google.com/drive/folders/1PI-USr5TmqFRt1M4u5cbFbSF9czsYrOy?usp=drive_link
		Group Discussions	<p>Topic 1:- Operations on stack</p> <p>Topic 2:- Linked List insertion and deletion</p>	DS		

			Topic 3:- Postfix Evaluation Topic 4:- Binary Search Tree			
		NoteBook Checking	NoteBook checking is done weekly in practical hours.	DS, AOA	Weekly checks of students' class notebook completion promote accountability, provide timely feedback, encourage organization, foster engagement, facilitate effective communication, and enhance writing practice.	
		Flip Classroom	Topic 1:- Classification of Data Structures Topic 2:- Operations on Stack Topic 3:- Queue operations Topic 4:- Trees	DS	Flip classroom increases communication skills, self learning, and increases in depth knowledge of the topic.	
		Flip Classroom	Topic 1:- Asymptotic Notations Topic 2:- Quick Sort Topic 3:- Dijkstra's Algorithm Topic 4:- Longest Common Subsequence	AOA		

13	Ms. Shobha S. Lolge	Interactive Online Platforms:	Google Classroom	Natural Language Processing	Enhanced collaboration among students and instructors.	https://docs.google.com/document/d/1V_iw5y_iQFCDPS096LrQf2jUSOn_z0oHcqpObuE0Jgk/edit?usp=sharing
		Virtual Labs and Simulations	Virtual NLP Labs, Online NLP Simulations	Natural Language Processing	Enhanced practical understanding, Efficient resource utilization	
		Project-Based Learning	NLP Project-Based Learning	Natural Language Processing	Practical experience, Enhanced problem-solving skills	
		Peer Learning and Collaboration	Exploring Word-Level Analysis Techniques in NLP	Natural Language Processing	Enhanced understanding through discussion, Strengthened communication skills	
16	Ms. Rakhi D. Akhare	Course Quiz	Quiz	Applied Data Science	Students are able to apply course knowledge to solve problems	https://docs.google.com/forms/d/1WEbTjTRd_bBTYP8wG_le1VS9CL1AlqT55GSyFPFkCuA/edit
		Project Based Learning	Students implemented mini project in the course	Big Data Analytics	Students able to analyze the problem statement and provide efficient solution	https://drive.google.com/drive/folders/1aDbDVISJVcu2JnVIWGrR1bgYJZRxCx8b
		Group Discussion	Students performed the group discussion on data analytics and data science	Big Data Analytics	Students discussed the various aspects of data analysis and data science.	https://drive.google.com/drive/folders/1P-De3OhjYsVIHYbA6SrbnAwiTJAIL_Kd
17	Ms. Archana M. Naware	Flip Classroom	Students of 2– 4 each in group is given a topic	EM	Students read and gain knowledge about the topic before the topic is being taught in the	https://drive.google.com/file/d/1fPsuqhxM-KqPeo6AdQcHOlxP67

					classroom.	NHfP-z/view?usp=drive_link
		Surprise MCQ Test in Class	Students solve MCQ test papers. Time given was 15 min. Answer Sheets were evaluated.	Software Engineering	The students come to know their depth of basic subject knowledge so that they can prepare themselves for upcoming exams.	https://drive.google.com/file/d/182f34yFm-zUzG_SAUvrDu9ttKalMJR5/view?usp=drive_link
		Flip Classroom	Topic presentation by student	CSS	This activity encourage students to do self study. It helps to develop stage courage. By preparing the topic students read and gain knowledge about the topic in depth.	https://drive.google.com/file/d/1stffZOEgtyATd-U7Y1MksWSoz612056/view?usp=drive_link
		Online MCQ Test	Students attempted the online mcq test . the test papers were evaluated online.	OS	The students came to know their depth of basic subject knowledge so that they can prepare themselves for upcoming exams	https://drive.google.com/file/d/1-TCudJp96q4wPtZsnOYyvheE35LxtCBf/view?usp=drive_link
	Datta Deshmukh	Flip Classroom	Group of two students is given a topic	EM	Students read and gain knowledge about the topic before the topic is being taught in the classroom	https://drive.google.com/file/d/1SP_iAbO-KwnmJSiPQfwde7MpYmDQfSAO/view?usp=drive_link
18	Ms. Pranjali V. Gurnule	Project based Learning	Students have developed course project	Machine learning	To inculcate the critical thinking ability among the students,, Development of self-learning	

					Enhancement of presentation skills, Expansion of subject knowledge	
		Subject Quiz	MCQ Test is conducted	Machine Learning	Taking multiple-choice tests helps students understand how well they've learned the material, remember it and get used to such kind of questions.	ML-innovat...
		Flip Classroom	Adhoc Wireless Network	Mobile Computing	Flip classroom increases communication skills, self learning, and increases in depth knowledge of the topic.	https://drive.google.com/file/d/159MzVeP4vxlylSk8C_CcnY84ryZSmfSZ/view?usp=sharing
19	Ms. Shirin H. Matwankar	Subject related Quiz	Quiz	OOP with Java, NLP,DS	Realization of subject knowledge	https://docs.google.com/document/d/11KqNTH7IYPOnkf7GASKYrPHZmRPVx6D-rVYTUhlfnw/edit?usp=sharing
		Teaching and Learning through Virtual Teaching	Learning through Google Classroom	OOP with Java, NLP,DS,Python Programming, SPCC,CCL,IoT,AOA,ASSDF,	Students can benefit with the notes provided on time. Students can understand the concepts in a better way.	
		Learning through e-content	ppt ,online notes,recorded online lectures	DS,AOA,ASSDF,NLP,OOP with Java, IoT	Course related e- content is uploaded in their Classroom and developed videos based on syllabus for students and uploaded on shared drive link	
		Case Study Based Learning	Recent trends and applications of the course are presented by students	IoT	improve presentation skills, technical communication and peers received knowledge on content beyond	
		NPTEL videos	Videos of NPTEL are	OOP with Java	Educational content that can benefit students at	

			shown to students.		various academic levels and stages of their learning journey	
		Expert lecture	Arranged an expert lecture on Parsers in compiler by Dr. Sagar Kulkarni(TCS-Pune)	SPCC	Students can benefit with the knowledge and content provided by an expert. Students can understand the concepts in a better way.	
		Multimedia Learning	Arranged think and share session on topics on course	ASSDF	Better understanding and Realization of subject knowledge	
		Training program	Hands on session was arranged on cdQA (BERT) for Natural Language	NLP	Students can benefit with the knowledge and content provided by an expert.	
		Tool developed	Test result analyser tool	Mini project(2A)	The creation of the Test Result Analyzer Tool represents a significant advancement in the field of test result analysis, providing a specialized tool that is tailored to the unique needs of the Lokmanya Tilak College of Engineering. through the use of advanced algorithms and data analysis techniques, the tool offers a range of features and functionalities that make it easier for staff and students to manage and analyze test results, while also reducing the risk of errors and inaccuracies..	
20	Ms. Shraddha Shrivastava	Flip Classroom	Use case study using flip classroom	Social Media Analysis	Students read and gain knowledge about the topic. It also increases	https://drive.google.com/file/d/1XIV6z_LdJJU_Sy

					communication skills and self learning capability.	L1_RhXL0rRRN1ZXxTk/view?usp=sharing
		Virtual labs by IIT for Practicals	Virtual labs for various practicals were conducted.	Python programming	Students read and gain knowledge about the topic	
		Google Classroom	ICT, video lecture	Social Media Analysis, Python programming	Google classroom for sharing the study materials, question banks and assignments.	
23	Ms. Harshita D. Bhagwat	Group Discussion	Problems solutions found by students and presented by them.	C programming	For better understanding the concepts of functions , array ,structure etc.	https://docs.google.com/document/d/1oZh_UFu-j-YAX6yY4DuCn77ur3KcAhlPw/edit
		Subject related prerequisite Quiz, NPTEL video lecture	Quiz, Video lecture	C programming	Realization of subject knowledge. Grasping the knowledge from other professors	https://youtube.com/playlist?list=PLEAYkSg4uSQ2k6GwNhpqSHodGT8wfvqwu&si=XfujVHFT30WfArXu https://docs.google.com/forms/d/1mt895nkSpVUdS_MsjzSmH56gYBLCkIC_TY8qDfhVM24/edit
24	Lalita Bhosale	Flip Classroom	Think and share session using flip classroom	Environmental Management	Better understanding and Realization of subject knowledge	https://drive.google.com/file/d/1sLHuOiAQhldpESVSAQL7ktVMZ8F8P08/view?usp=sharing

		Group Discussion	Discussing & Presenting the Concepts	Environmental Management	Improve Communication Skills, Listening skills, Decision-making skills	
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Google Classroom code

Sr. No	Name of Faculty	Semester	Subject name	Classroom link
2	Dr Sheeba P. S.	IV	Database Management System	https://classroom.google.com/c/NTqxODQ5MTUzOTMz
		III	Data Structure	https://classroom.google.com/c/NTM3MzgxNzc3MTY3
		V	Data warehousing & Mining	https://classroom.google.com/c/NTM2NzQwODU1MjEz
5	Mr. Rajendra D. Gawali	SE-IV-A (2023-24 Even)	Database Management System	https://classroom.google.com/c/NjQ2NzAyMTE0MDQ5
		TE-V-B (2023-24 Odd)	Data Warehousing & Mining	https://classroom.google.com/c/NjE1ODk0MDY0NTA4
		SE--IV-A (2022-23 Even)	Database Management System	https://classroom.google.com/c/NTgyMTE5ODI2MzY5
6	Mr. Sanjay D. Naravadkar	SE/TE	DIca,SPCC	v4x4b7q, ovjgbkl, ibvyk3b
7	Mr. Manish R. Umale	BE sem VIII 20-21 even	AWN	https://classroom.google.com/c/MjYwOTQ4NjY1Mzg3
		BE sem VIII 21-22 even	AWN	https://classroom.google.com/c/NDUxMjQ0TU10TkY

		TE A div 21-22 TE Sem V	TCS	https://classroom.google.com/c/MzcmMjgxMDkzNDc2
		TE B div 21-22 TE Sem V	TCS	https://classroom.google.com/c/MzcmMjgxMDkzNTA1
		TE A Div 21-22 TE VI sem	AI	https://classroom.google.com/c/NDUxMjUxMDY3NzA3
		TE A Div 22-23 TE VI sem	AI	https://classroom.google.com/c/NTgxNTM1ODk0ODgy
		TE div 22-23 TE VI sem	AI	https://classroom.google.com/c/NDUxMDMyMjYxMTQ5
8	Ms. Sonal A. Bankar	BE(VII) 2022-23 BE(VII) 2023-24	Machine Learning	https://classroom.google.com/c/NDk3MDY4OTI1ODcz?c=c=ljkufur https://classroom.google.com/c/NjE2MjcyNzYwOTcz?cjc=e6mewr
		TE(VI)-2021-22 TE(VI)-2022-23 TE(VI)-2023-24	Cryptography and System Security	https://classroom.google.com/c/NDUxNzA5ODY5MzM4?cjc=tdnajri https://classroom.google.com/c/NTEyMDQ4NTEwNjU3?cjc=dmfjces https://classroom.google.com/c/NjQ3MTkyMzq1NzQ1?cjc=ap2ewny
9	Ms. Kahkashan Siddavatam	TE(V)-A	Internet Programming	https://classroom.google.com/c/MzcmMjMyNzMyNDc3?cjc=23k2by6
		TE(V)-A &B	Internet Programming	https://classroom.google.com/c/NjMzMzY5OTc2OTcy?cjc=g7fqoft
		BE(VIII)-A &B	ADS	https://classroom.google.com/c/NjQ3MzE0MTU4MjQ2?cjc=7yywhcu
10	Ms.Sulbha S. Yadav	BE(VII)-2022-23 BE(VII)-2023-24	BDA	https://classroom.google.com/c/NDk3MDg2OTIxOTAx https://classroom.google.com/c/NTU0NTg1NTY3NDEy

		TE(VI)-2021-22 TE(VI)-2022-23 TE(VI)-2023-24	QA	https://classroom.google.com/c/NDYyOTI5NzQ3ODk3 https://classroom.google.com/c/NTA5NDc3NTY3MTY2 https://classroom.google.com/c/NjU0MTQwMDC4NTAw https://classroom.google.com/c/NjU0MTM3OTM2Njky
11	Ms. Shital K. Dhamal	SE (IV) - A (2023-24 Even)	Operating System	https://classroom.google.com/c/NjUzMjMwMzcwMTIw?cjc=mukab6f
		SE (IV) - B (2023-24 Even)	Operating System	https://classroom.google.com/c/NjQ2ODE0OTQ1NzAz?cjc=sc57xxv
		SE (III) - A (2023-24 Odd)	Computer Graphics	https://classroom.google.com/c/NTIzMTM5ODY0MTM3?cjc=dhvlxkw
		SE (IV) - A (2022-23 Even)	Operating System	https://classroom.google.com/c/NTgxNTU1NjkwNzE3?cjc=77bihvb
		SE (IV) - B (2022-23 Even)	Operating System	https://classroom.google.com/c/NTgyOTMzMjIzOTg0?cjc=k23sm4a
		SE (III) - A (2022-23 Odd)	Computer Graphics	https://classroom.google.com/c/NDg4NTc3MzU2MUA4?cjc=lq2zj3e
		SE (III) - B (2022-23 Odd)	Computer Graphics	https://classroom.google.com/c/NDg4NTc3MzU1OTMx?cjc=v6jaeng
		SE (IV) - A (2021-22 Even)	Operating System	https://classroom.google.com/c/NDQ2MzkwNzQwODY4?cjc=ytttvdm
		BE (VII) - A (2021-22 Odd)	Digital Signal & Image Processing	https://classroom.google.com/c/MzY3NTA1MDYzODE3?cjc=mrr4e7f
		SE (IV) - A (2020-21 Even)	Operating System	https://classroom.google.com/c/MjU5NTU1NTg5Mzg0?cjc=4s52mdj
		SE (III) - A (2020-21 Odd)	Computer Graphics	https://classroom.google.com/c/MTE3NzYxNzY0NTU4?cjc=qqjs3jl
12	Ms. Smita A. Attarde	SE (IV) - A (2023-24 Even)	Analysis of Algorithms	https://classroom.google.com/c/NjQ2ODE1ODM1MTM2?cjc=4yveexq
		SE (IV) - B (2023-24 Even)	Analysis of Algorithms	https://classroom.google.com/c/NjUzMjM5MzM0ODQz?cjc=sejfcqc

		SE (III) - A (2023-24 Odd)	Data Structures	https://classroom.google.com/c/NjE2MTE0OTQyMTg4?cjc=3kbjaz
		SE (IV) - A (2022-23 Even)	Analysis of Algorithms	https://classroom.google.com/c/NTgyOTIxMjKxNDQ0?cjc=gtaewne
		SE (IV) - B (2022-23 Even)	Analysis of Algorithms	https://classroom.google.com/c/NTExODk4NzAyNjAz?cjc=wgpqkor
		SE (III) - A (2022-23 Odd)	Data Structures	https://classroom.google.com/c/NTI2MDIxNjI2MzIw?cjc=5hinkcq
		SE (III) - B (2022-23 Odd)	Data Structures	https://classroom.google.com/c/NTI2MDIxNDE1MTg2?cjc=x5hheck
		SE (IV) - A (2021-22 Even)	Analysis of Algorithms	https://classroom.google.com/c/NDUxODExMjM5NjQz?cjc=gu2zfaz
		SE (III) - B (2021-22 Odd)	Data Structures	https://classroom.google.com/c/Mzg0MzI2NjcwMTU4?cjc=xyqjdj5
		SE (IV) - B (2020-21 Even)	Analysis of Algorithms	https://classroom.google.com/c/MjYwMTcxMjA0NTk3?hl=en&cjc=puskldn
		TE (V) - A (2020-21 Odd)	Advance Algorithms	https://classroom.google.com/c/MTE3NzYyMDQzMTE4?hl=en&cjc=vtpfunw
		TE (V) - B (2020-21 Odd)	Advance Algorithms	https://classroom.google.com/c/MTE3NzYyMDQzMTE4?hl=en&cjc=p7rtmgf
13	Ms. Shobha S. Lolge	BE A (VIII) 2023-24 EVEN	Social Media Analytics	https://classroom.google.com/c/NjU0MzUyNjE3NTI2?cjc=jtxaz4v
		BE A (VII) 2023-24 ODD	Natural Language Processing	https://classroom.google.com/c/NjE2MjA5NTY4MTI5?cjc=zy63nrj
		BE B (VII) 2023-24 ODD	Natural Language Processing	https://classroom.google.com/c/NTIzMTY3MjY1MjI0?cjc=ws35zkv
		BE A(VIII) 2022-23 EVEN	Social Media Analytics	https://classroom.google.com/c/NTExOTczNTU4ODU1?cjc=ya23eq4
		BE A(VII) 2022-23 ODD	Natural Language Processing	https://classroom.google.com/c/NDk3MDgzNzk2NzUx?cjc=4pxpx4b

		BE A & B(VII) 2022-23 ODD	Information Retrieval	https://classroom.google.com/c/NDk3MDg2NTg3NzA5?cjc=ghjhhzr
		BE A (VIII) 2021-22 EVEN	Natural Language Processing	https://classroom.google.com/c/NDUxNzY5Mjl1Mzg3?cjc=3256zxw
		TE B(V) 2021-22 ODD	Software Engineering	https://classroom.google.com/c/MzCWMTMzMDQ0NzM3?cjc=mozprhg
		BE B(VIII) 2020-21 EVEN	Natural Language Processing	https://classroom.google.com/c/MjYwNDYxMTY2OTA2?cjc=cxmzh3r
		SE B (IV) 2020-21 EVEN	Database Management System	https://classroom.google.com/c/MjYwNDU0MzU3Mzk0?cjc=ndmuvdi
		SE B (III) 2020-21 ODD	Data Structures	https://classroom.google.com/c/MTE3NzY4NzEzNDc5?cjc=ac2aqic
16	Ms. Rakhi D. Akhare	BE(VII)-B 2023-24	Big Data Analytics	https://classroom.google.com/c/NjE2MTEzMzExNzcy
		BE(VIII)-A 2022-23	Applied Data Science	https://classroom.google.com/c/NTgyOTI3NjE1MDk0
		TE(VI)-B 2021-22	Mobile Computing	https://classroom.google.com/c/NDQ0ODA1NzU1Mjc1
19	Ms. Shirin H. Matwankar	SE/III/A (23-24) ODD	Skill base Lab course: Object Oriented Programming with Java	https://classroom.google.com/c/NjE2MjIwMzM4Njc1?cjc=dz36fjo
		SE/III/B (23-24) ODD	Skill base Lab course: Object Oriented Programming with Java	https://classroom.google.com/c/NjE2MjE5ODA3MzI0?cjc=67jpvfd
		SE/IV/B (23-24)EVEN	Skill Base Lab Course: Python Programming	https://classroom.google.com/c/NjUzMjgyNzIwODI0?cjc=3mc66t5
		TE/VI/A (23-24)EVEN	System Programming and Compiler Construction	https://classroom.google.com/c/NjU1MTQyNzQ1Mjcx?cjc=7ftil45

		TE/VI/A&B (23-24)EVEN	Skill base Lab Course: Cloud Computing	https://classroom.google.com/c/NjUzNTYwMDO2MTM0?cjc=455f3na
		BE/VII/B (22-23)ODD	Natural Language Processing	https://classroom.google.com/c/NDk2OTc0NzEwNDgw?cjc=ziucv66
		TE/VI/A&B (22-23)EVEN	Internet of Things	https://classroom.google.com/c/NTEzMjY2MjgzMzc0?cjc=cjlfxs
		SE/IV/B (22-23)EVEN	Skill Base Lab Course: Python Programming	https://classroom.google.com/c/NTEzMjY2NDQwMTk4?cjc=26snlzk
		SE/III/A (21-22)ODD	Data Structure	https://classroom.google.com/c/MzgzOTY2Nzk1OTk1?cjc=z6b4b74
		BE/VII/A & B (21-22)ODD	Advanced System Security and Digital Forensics	https://classroom.google.com/c/MzcwNDgzNDIzODk1?cjc=g5d7k3t
20	Ms. Shraddha Shrivastava	SE IV-A (23-24 Even)	Python	https://classroom.google.com/c/NjUzMjMyOTk2MTAy?cjc=ikkunun
		BE VIII-B (22-23 Even)	Social Media Analytics	https://classroom.google.com/c/NTEyMDAzNDc5MzU3?cjc=lw443nc
21	Ms. Rajnandini Kumawat	TE(VI)-A (2023-24 Even)	Mobile Computing	https://classroom.google.com/c/NjQ2ODE2NTk0NDc5?cjc=yjdx5jk
		TE-HONOURS (2023-24 Even)	Block chain Platform	https://classroom.google.com/c/NjUzMjQzNDg4Njg0?cjc=2ogs4t2
		SE (III) - A (2023-24 Odd)	Computer Graphics	https://classroom.google.com/c/NTU0NTg1ODUzNjcz?cjc=v3uwkwi
		BE (VII) - A (2023-24 Odd)	Information Retrival	https://classroom.google.com/c/NTIzMjI0MjU5NDkw?cjc=tgwa3og
24	Ms.Lalita Bhosale	BE- A&B	Environmental Management	https://classroom.google.com/c/NjQ4Mzg4MjI2MTg1
		BE-HONOURS	Decentralized Finance	https://classroom.google.com/c/NjYyNDg5MzE0NTgx
25		SE (Sem IV) B 2023-24 EVEN	Database Management System	https://classroom.google.com/c/NjQ2OTQwMDAwNDY5?cjc=orgjogo

Dr. Chaitrali P. Chaudhari	TE B (B1, B3) Sem VI 2023-24 EVEN	Cloud Computing Lab	https://classroom.google.com/c/NjUzMzEzMzc1MDU5?cjc=ce4smgg
	TE Sem V 2023-24 ODD	Honors Blockchain	https://classroom.google.com/c/NjE50Tc1MTk00Tk1?cjc=osoupza
	TE A Sem V 2023-24 ODD	Computer Network	https://classroom.google.com/c/NjE3MjcyNjk0MzQz?cjc=zs7nws3
	TE B (B1, B2) Sem VI 2022-23 EVEN	Cloud Computing Lab	https://classroom.google.com/c/NTk2MTY5NDEwNDk1?cjc=eg22vp6
	SE B Sem IV 2022-2023 EVEN	Database Management System	https://classroom.google.com/c/NTEyMDQ5MDk2NTEw?cjc=ow4uh4v
	TE A Sem V 2022-2023 ODD	Data Warehousing and Mining	https://classroom.google.com/c/NTM4MDQyNjM5MTc3?cjc=6bbaepy
	TE A Sem VI 2021-22 EVEN	Internet of Things	https://classroom.google.com/c/NDUxNzYyNzQyNzQ3?cjc=dx47o44
	SE B Sem III 2021-2022 ODD	OOPM	https://classroom.google.com/c/Mzk1ODk4NDM2NzM2?cjc=lpqlvip
	BE B Sem VIII 2021-2022 EVEN	Human Machine Interaction	https://classroom.google.com/c/NDUxNzYyNzQyNjQ3?cjc=obzodj7
	BE A-Sem VIII 2020-2021 EVEN	Human Machine Interaction	https://classroom.google.com/c/MjYwNTQxNDM5MDAx?cjc=l4zm67p
	TE-A- Sem V 2021-22 ODD	Computer Network	https://classroom.google.com/c/MzcwMTMzNjczNTQ1?cjc=3rlytrk
	BE-A-Sem VIII 2020-2021 EVEN	Cloud Computing Lab	https://classroom.google.com/c/MzEzNzA3NjM2Mjk4?cjc=h33hapr

Online video Lecture Links and YouTube video Channels

Sr.No	Name of Faculty	Subject	Video Link
1	Dr. Smita Ambarkar	Cryptography and System Security	https://drive.google.com/drive/folders/1Ed61wMq2cWmkqCF9CvJcFjijt6pCRy7Y

2	Dr. Smita Ambarkar	Cyber Security and Law	https://drive.google.com/drive/folders/1Ed61wMq2cWmkqCF9CvJcFjtit6pCRy7Y
3	Dr. Smita Ambarkar	Mobile Communication and Computing	https://drive.google.com/drive/folders/1Ed61wMq2cWmkqCF9CvJcFjtit6pCRy7Y
4	Ms. Rakhi Akhare	NLP	https://drive.google.com/drive/folders/11CnuMfuKhxCdzQBchaRh_-Y5cXojZ8QD
5	Ms. Rakhi Akhare	Big Data Analysis	https://drive.google.com/drive/folders/11CnuMfuKhxCdzQBchaRh_-Y5cXojZ8QD
6	Mr. R. D. Gawali	Soft Engg	https://drive.google.com/drive/folders/1SPCoizloPMfmDvcN4Dn4UKv641NNe12j?usp=sharing
7	Mr. R. D. Gawali	DBMS	https://drive.google.com/drive/folders/1KGT7OFFaCW5rx9EEseZXrly6EZHFtIU-?usp=sharing
8	Ms. Kaikashan S	Machine Learning	https://drive.google.com/file/d/1EEHh-rjIgNZkTWn4-JxwwDgDJeAnR4dW/view?usp=drive_link
9	Dr. Sanjivani Deokar	DWM	https://drive.google.com/file/d/182h2hEjF7n1FcGO7u_sZTByYjLf7OXi/view?ts=6596700c
10	Dr. Sanjivani Deokar	DWM	https://drive.google.com/file/d/1HsjS7g2zRFgAydG2WeiN9FPBBydwtqydr/view?ts=6596738a
11	Prof Sonal Bankar	CSS	https://drive.google.com/drive/folders/1JQUJYQT_GVADKACZ0tFxoHDMey2nZaSH?usp=drive_link
12	Prof Sulbha Yadav	Quantitative Analysis	https://drive.google.com/drive/folders/1DOe19rNqetQAgnzAb9oWk3iME-FIR7U
13	Prof Shirin Matwankar	C Programming	https://drive.google.com/file/d/1liyTrece4p_LqnH8OE1hrrsIhfrYMahH/view?usp=sharing
14	Prof Shirin Matwankar	Advanced System Security and Digital Forensics	https://drive.google.com/file/d/1PmGijF5_V1pGZ9Pu6aPLzxW2Mdt8Irau/view?usp=sharing
15	Ms. Shital K. Dhamal	Operating System	https://drive.google.com/drive/folders/1sIUEHeu4O1f5faAH28-jjnAgj_3B84KT?usp=drive_link
16.	Dr. Chaitrali P. Chaudhari	Human Machine Interaction	https://drive.google.com/drive/u/0/my-drive?q=

			type:video%20parent:0ABMIH5f7g7_bUk9PV_A
	Dr. Chaitrali P. Chaudhari	Computer Network	https://drive.google.com/drive/u/0/my-drive?q=type:video%20parent:0ABMIH5f7g7_bUk9PV_A

Videos available online on YouTube Channel:

Sr. No	Name of Faculty	YouTube link
1	Prof Sanjay Narvardkar	https://www.youtube.com/sanjaynaravadkar8937
2	Shital K Dhamal	www.youtube.com/@shitalkdhamal4178
3	Prof Smita Attarde	https://www.youtube.com/@smitaattarde9335
4	Dr. Sheeba P S	https://www.youtube.com/@sheebaps/playlists

NPTEL Courses done by faculty

Sr.no	Name of Faculty	Name of the NPTEL Course	Date	AY
1	Ms. Smita A. Attarde	12 weeks course of NPTEL on "Operating System Fundamentals"	Jul - Oct 2023	2023-24
2	Ms. Shital K. Dhamal	12 weeks course of NPTEL on "Operating System Fundamentals"	Jul - Oct 2023	2023-24
3	Ms. Shobha S. Lolge	NPTEL-AICTE Faculty Development Program on "Software Engineering"	July-October 2022	2022-23
4	Ms. Shobha S. Lolge	NPTEL-AICTE Faculty Development Program on "Natural Language Processing"	July-October 2022	2022-23
5	Ms. Shobha S. Lolge	NPTEL-AICTE Faculty Development	Jan-Apr 2023	2022-23

		Program on "Privacy and Security in Online Social Media"		
6	Ms. Shital K. Dhamal	8 week Course and 1/2 week FDP organised by NPTEL - AICTE on Introduction to Big Data Computing	August-21 to October-21	2021-22
7	Ms. Shital K. Dhamal	8 week Course and 1/2 week FDP organised by NPTEL - AICTE on Introduction to Cloud Computing and Distributed System	Jan 2022 to Mar 2022	2021-22
8	Ms. Smita A. Attarde	8 week Course and 1/2 week FDP organised by NPTEL - AICTE on Introduction to Big Data Computing	August-21 to October-21	2021-22
9	Ms. Smita A. Attarde	8 week Course and 1/2 week FDP organised by NPTEL - AICTE on Introduction to Cloud Computing and Distributed System	Jan 2022 to Mar 2022	2021-22
10	Mr. Jayendra S. Jadhav	NPTEL-AICTE Faculty Development Program on "Introduction to programming in C "	Feb to April 22	2021-22
11	Dr. Sanjivani T. Deokar	8 week Course and 1/2 week FDP organised by NPTEL - AICTE on Data Base Management system	Jan to March 2022	2021-22
12	Ms. Shital K. Dhamal	8 week Course and 1/2 week FDP organised by NPTEL - AICTE on Introduction to Soft Computing	Jan 2021 to Mar 2021	2020-21
13	Ms. Shital K. Dhamal	8 week course and 1/2 week FDP organised by NPTEL - AICTE on Introduction to Research	Sep 2020 to Nov 2020	2020-21
14	Ms. Shital K. Dhamal	8 week course and 1/2 week FDP organized by NPTEL - AICTE on Machine Learning	Sep 2020 to Nov 2020	2020-21
15	Ms. Smita A. Attarde	8 week Course and 1/2 week FDP organised by NPTEL - AICTE on Introduction to Soft Computing	Jan 2021 to Mar 2021	2020-21
16	Ms. Smita A. Attarde	8 week course and 1/2 week FDP organised by NPTEL - AICTE on Introduction to Research	Sep 2020 to Nov 2020	2020-21
17	Ms. Smita A. Attarde	8 week course and 1/2 week FDP organised by NPTEL - AICTE on Machine Learning	Sep 2020 to Nov 2020	2020-21
18	Ms. Smita A. Attarde	8 week course and 1/2 week FDP organised by NPTEL - AICTE on Machine Learning	Feb 2020 to April 2020	2019-20

19	Ms. Sulbha S. Yadav	Online course on “Deep Learning-Part1” – 12 Weeks by NPTEL	2-02-2020 To 22-04-2020	2019-20
20	Ms. Sulbha S. Yadav	Online course on “Python For Data Science” – 12 Weeks by NPTEL	1-1-2020 to 28-04-2020	2019-20
21	Dr. Chaitrali Chaudhari	Business Analytics and Data Mining Modelling Using R - Part -II	July-August 2022	2022-23

NPTEL Courses done by Students

Sr.no	Name of Students	Name of the NPTEL Course
1	Gupta Lakshya Umesh Geeta	Programming in JAVA, NPTEL/Computer
2	Rajas Mahajan	Database Management system, NPTEL/Computer
3	Pranav Tiwari	Data Analytics with Python, NPTEL/Computer
4	Pooja Bhagat	Database Management system, NPTEL/Computer
5	Pooja Bhagat	Joy of Computing with Python, NPTEL/Computer
6	Debangshu Saha	Python for Data Science, NPTEL/Computer
7	Ankit Singh	Python Foundation Certification, Infosys Springboard
8	Vishwas Singh	Bigdata Computing, NPTEL/Computer
9	Khan Ramzan	Deep Learning, NPTEL/Computer
10	Jayesh Maurya	Artificial Intelligence Boot Camp, Microsoft Learn Program

11	Vaama Nikam	Azure Fundamentals, Microsoft Learn Program
12	Poorvita Chandwadkar	Programming Using Python NPTEL/Computer Database Management System NPTEL/Computer
13	Pranav Tiwari	Python for Data science
14	Anisha Shinde	Programming Using JAVA NPTEL/Computer
15	Sarvesh Mantri	Programming Using JAVA NPTEL/Computer
16	Rahul Mahanty	Programming Using JAVA NPTEL/Computer
17	Vignesh Vaishnav	Programming DATS and Algorithms NPTEL/Computer
18	Abhinav Mishra	Python for Data science
19	Shivangi Gautam	Programming DATS and Algorithms NPTEL/Computer
20	Amit Giri	Programming DATS and Algorithms NPTEL/Computer
21	Sachin Jha	Introduction to Machine Learning
22	Deepak Gourd	Introduction to Machine Learning
23	Nicky Shah	Introduction to Machine Learning
24	Karan Chaudhari	Introduction to Machine Learning