Innovations by the Faculty in Teaching and Learning

Innovations Facility

Sr. No.	Name of Innovations Facility	Details	Number of faculty member involved	Utilization	Impact
1.	Faculty Development Program on Teaching Learning process using ICT Tools	Department of IT had organized 03 online Faculty Development Program on **"Teaching Learning Processes Using ICT Tools for Education 4.0"** during May-June 2020. A number of 6172 participants from 29 different states participated in the event. The FDP has focused upon numerous online teaching learning processes and ICT Tools like Big-Blue Button, Google Classroom, Data Studio, Google form, Virtual Lab, Online Compiler, Virtual classroom, Wordpress etc. Video editing tools like – Bandicam, Openshot, Bandicut etc.	All departmental faculty members	In a pandemic situation, all innovative pedagogical tools were useful for interactive teaching.	This FDP has motivated teachers to enhance student engagement through interactive and collaborative learning, thus maximizing learning outcomes. Innovative pedagogical tools to utilize effective teaching practices and develop an ability to enhance student engagement through interactive and collaborative learning.

2.	Moodle based learning.	The faculty got Moodle Gnomio training from IIT Bombay and the Institute-level Faculty Development Program. Faculty have utilized this knowledge to generate their own Gnomio sites for a various courses.	All departmental faculty members	Faculty members are using the Moodle platform to share E-resources and online evaluation of the students.	1.To Build a platform for students and teachers to enable blended learning. 2. To improve the teaching learning process. 3. Analyze real-time progress and Evaluation of each student and recommend corrective actions for better learning.
3.	IIT Bombay Spoken Tutorial based Learning	During their internal valuation, the department has made IIT Bombay Spoken Tutorial mandatory for all semesters. Faculty members provide training on spoken tutorials to registered students and encourage them to participate in the certificate exam.	5-6 Faculty members	1. To provide a learning platform for students. 2.To enhance programming skills. 3. To improve university exam results.	The students programming knowledge is enhanced by the use of a spoken tutorial. This spoken tutorial helps students in improving their programming skills on an open source platform and get certificate in association with IIT Bombay.

4.	MOOCs Based Learning	Department had a practice of motivating students to participate in various MOOC's courses from CourseEra, Edx, Udemy, Udacity and NPTEL related to their semester based courses and emerging technologies. Faculty members are also involved for MOOC courses for upgrading skills.	Few Faculty members as mentors	1.To conduct courses on emerging trends and technologies. 2. To improve placements.	MOOCs have a significant direct impact for skill development as it improves education outcomes and also improves placement in IT sector.
5.	Student Information System - A Counselling and Mentoring Software	Student Information system is the online counselling and Mentoring System. It is a Data driven system for better student's centric analysis. This software is developed and maintained by team of bright students mentioned by faculty members. All demographic, academic, co-curricular, and extracurricular information are filled by students regularly. Students scores are checked using university results, past backlogs, and a questionnaire. The system supports to identify slow , average and fast learners.	02 Faculty mentors and all departmental faculty members for Counselling	1.To provide technical and personal counselling to students. 2.To improve bond between faculty and students. 3.To decide slow, average and fast learners. 4. To provide inputs for improvements in learning.	The counselling and mentoring system has helped to identify slow, average and bright learners and help for their improvement.

6.	Virtual Book Store -Mobile Application	VBS is mobile application useful for all Nagpur University students. The VBS app provides a platform for better learning, as well as question papers and notes. VBS also provide videos lecture, job opening information free notes and university latest questions paper along with its solution.	01 Faculty Member	1.VBS App has been used by all students during the semester for exam preparation. 2. To provide training on mobile App, developments to participating students.	1. More than 60,000 students of RTM Nagpur university benefitted from VBS. 2. 07 students got trained in mobile App development.
7.	Employability Skill Enhancement through specially designed placement support module	This is Google Classroom based module developed and maintained by faculty members of the department to increase the department placement ratio. Training to final year and prefinal year students is provided.	04 Faculty members	1. To provide Aptitude and Technical training to 3rd and 4th year departmental students. 2 To provide support for Personal interview. 3 To provide special inputs by Alumni members. 4. To increase the department placement ratio.	1. Increased bond between faculty, alumni and students. 2. Improved placement of students.

Instruction Delivery

Sr. No.	Name of Innovation Facility	Details	Number of faculty member involved	Utilization	Impact
1.	Training on Cloud Computing and Blockchain	Conduction of online session on Cloud Computing and Blockchain at UGC HRDC, Nagpur, for faculty members across the nation.	01	Resource Expert for National level Institute	1.Knowledge Enhancement.

2. The quality of teaching deliverables has improved.

3. Use of Emerging Technologies.

4. Connect with outside world. |
2.	Expert Talk on various technical subject	Expert sessions on C/C++/Java Programming/ Servlet/ Adv. Java, Python, Online Exam Ethics, etc delivered successfully in various Engineering & Non – Engineering institutes.	01	Resource expert at university affiliated and autonomous institute.	
3.	Wadhwani Foundation Course on Entrepreneurship	Conduction of training of Wadhwani foundation course at institute level for interested students of all branches.	01	Resource Expert for Institute level	
4.	Workshop on Internet of Things	Workshop for Polytechnic students on Internet of Things at Government Polytechnic, Chindwada (MP)	01	Resource Expert for Polytechnic Institute.	

Sr. No.		Details		Utilization	Impact
5.	Seminar on Python	Seminar for Polytechnic students on Python at Government Polytechnic, Khamgaon.(MS)	01	Resource Expert for Polytechnic Institute.	
6.	Training on Java Programming for CDAC course.	Corporate training to students of CDAC course at Soft Polynomials, Nagpur.	01	Resource Expert at Training Institute for professional course	

Details of Industrial Visits and Internship

Sr. No.	Name of Innovation Facility	Details	Number of faculty members involved	Utilization	Impact
1.	Faculty initiated Industrial visit	Faculty members have decided to visit reputed IT industries and institute of repute to increase contact for internship and projects. Few faculty members while visiting Hyderabad, initiated talk with Anusaraka Lab, IIIT Hyderabad,which is an reputed research institute focused on Natural Language Processing and Machine Learning.	All departmental faculty members	On April 23, 2019, our department signed a Memorandum of Understanding (MOUs) for the Applied Grammar Project for Communicator and Language Accessor for English to Marathi and vice versa. The goal of the MOU is- 1.To foster collaboration, provide opportunity for global experience.	1.Students are learning about the latest AI/NLP and ML trends. 2.Students when visiting IIIT-Hyderabad get the opportunity to undergo internship and complete major projects under guidance of IIIT-Hyderabad expertise for a period of 1.5 years. 3. Many students got good placement due to their projects developed at IIIT,

		They were impressed by initiative and it has converted into long term relationship including MOU on Applied Grammar with internships and projects for 3rd and 4th year students.		2.To facilitate advancement of knowledge on the basis of reciprocity, best effort, mutual benefit, and frequent interactions.	Hyderabad.
		Industrial visit to Huawei Telecommunications, Delhi on 31st August 2018.	2-Faculty members	1 Students got exposure to world class data centre of Huawei in Delhi. 2. Faculty and Student members knowledge is improved for Cloud Computing and Mobile Communication courses of final year.	1.All the 54 students have registered and appeared for global certificate competition test based on the syllabus given by cognitel, a group of Huawei in the month of September 2018. 2.Five students have been shortlisted and same were called for the job fair which was on 23rd December 2018. 3. In the job fair, two students got selected in Insight Business Machines Pvt. Ltd.
2.	**Internship**	Industry Internship to reputed IT	All Faculty members		1.90% of students of each batch that undergo Mini

| | | Companies-

All Industries and Institute of Repute were visited and identified by faculty members of the department for better quality internships. | | 1. Quality improvement for internships.

2. To increase Industry connect for department.

3.Industry involvement in the program design and partial delivery of any regular courses for students. | Project and Internship in an industry get the opportunity to undertake Major project in the same company.

2.Students are getting placement opportunities in the company where they completed their project.

3. Industry professionals helped department for GAP identification ans improvements in Teaching-Learning System. |

Interactive Class Room

1. Two Smart classrooms and One ICT based Classroom-

Utilization:

1. To enable teachers to access multimedia content and information that can be used for teaching students more effectively.

2. To teach students in Blended mode for post pandemic period in a innovative way which helps for better understanding for the students.

ICT Tools

Virtual Lab

Academic Year	Faculty Using ICT tools	Subject	Semester	Details	Link	PO	PSO
2020-21	Prof. Shabana Pathan	Computer Graphics	5th sem IT	Practicals on Transform Ations by virtul labs ,IIIT Hyderabad	http://cse18-iiith.vlabs.ac.in/List%20of%20experiments.html?domain=Computer%20Science	PO1,PO2 ,PO5, PO7,PO1 2	PSO 1
	Prof. Priti Golar	Digital Image Processing	8th sem IT	Numericals on Virtual Lab	http://cse19-iiith.vlabs.ac.in/List%20of%20experiments.html?domain=Computer%20Science	PO1,PO3, PO5, PO7,PO12	PSO1
	Prof. Pooja Walke	Artificial Intelligence	7th sem IT	Virtual lab for NLP	http://nlp-iiith.vlabs.ac.in/	PO5,PO7,PO12	PSO1
	Prof. Pooja Walke	Digital Electronics and Fund amental of Micropro cessor	3rd sem IT	Virtual lab for DEFM Practical	https://de-iitr.vlabs.ac.in	PO5,PO7 ,PO12	PSO 1

2019-20	**Prof. Shabana Pathan**	**Computer Graphics**	**5th sem IT**	**practicals on Transformations by virtul labs ,IIIT Hyderabad**	**http://cse18-iiith.vlabs.ac.in/List%20of%20experiments.html?domain=Computer%20Science**	**PO1,PO5 ,PO7,PO12**	**PSO 1**
	Prof. Pooja Walke	**Artificial Intelligence**	**7th sem IT**	**Virtual lab for NLP**	**http://nlp-iiith.vlabs.ac.in/**	**PO5,PO7 ,PO12**	**PSO 1**
	Prof. Neha Singh	**Object Oriented Methodlogy**	**5th sem IT**	**C++ ONLINE TEST**	**https://spoken-tutorial.org**	**PO5,PO7 ,PO12**	**PSO 1**
	Prof. Harshala Shingne	**Software Engineering**	**5th sem IT**	**SE PR Design test cases for programs and cyclomatic complexity**	**vlssit.iitkgp.ernet.in/isad/isad/**	**PO5,PO7 ,PO12**	**PSO 1**
2018-19	**Prof. Shabana Pathan**	**Computer Graphics**	**5th sem IT**	**IIT Bombay, IIIT Hyderabad**	**http://cse18-iiith.vlabs.ac.in/List%20of%20experiments.html?domain=Computer%20Science**	**PO1,PO5 ,PO7,PO12**	**PSO 1**
	Prof. Pooja Walke **Prof. Neha Singh** **Prof. Harshala Shingne**	**Software Engineering**	**5th sem IT**	**SE virtual lab**	**http://vlabs.iitkgp.ernet.in/se/**	**PO5,PO7 ,PO12**	**PSO 1**

Software / Mobile App

Academic Year	Faculty Using ICT tools	Subject	Semester	Details	Link	PO	PSO
2019-20	Prof. Hemlata Sahu	Design & Analysis of Algorithm , Programming Logic & Design Using C	5th sem IT	1. Data Algorithm Visualization 2. Greeks For Greeks	https://www.cs.usfca.edu/~galles/visualization/Floyd.html https://www.geeksforgeeks.org/8-puzzle-problem-using-branch-and-bound/	PO1,PO3 ,PO5, PO7,PO1 2	PSO 1
		Internet Programming	6th sem IT	HTML code play, android studio	html code play, android studio	PO1,PO3 ,PO5, PO7,PO1 2	PSO 1, PSO 2

		Design & Analysis of Algorithm , Programming Logic & Design Using C	5th sem IT	Beyond Syllabus / For curriculum delivery	https://wwww.cs.usfca.edu/~galles/visualization/Floyd.html https://www.geeksforgeeks.org/8-puzzle-problem-using-branch-and-bound/	PO1,PO3 ,PO5, PO7,PO1 2	PSO 1
2018-19	Prof. Manali Patki	System Programming	5th sem IT	For curriculum delivery	play.google.com/store/apps/details?id=in.witsolapur.sysproapp	PO1,PO2 ,PO3,PO 5,PO7,P O12	

Course Website (Moodle)

Academic Year	Faculty Using ICT tools	Subject	Semester	Details	Link	PO	PSO
2020-21	Dr. Manoj Bramhe	Database Management System	5th sem IT	Gnomio site, Moodle	https://mbramhe.gnomio.com/	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
		Computer System Security	7th sem IT		https://mbramhe.gnomio.com/	PO1,PO2,PO3,PO5,PO7,PO12	
	Prof. Shabana Pathan	Ecomm ERP	8th sem IT	Gnomio site, Moodle	https://spathan.gnomio.com	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
		Computer Graphics	5th sem IT		https://spathan.gnomio.com	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
	Prof. Priti Golar	System Programming	5th sem IT	Gnomio site, Moodle	https://golar.gnomio.com	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
		Data Warehousing and Mining	7th sem IT	Gnomio site, Moodle	https://pgolar.gnomio.com	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1

		Theory of Computation	4th sem IT	Gnomio site, Moodle	https://pgolar.gnomio.com	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
		Digital Image Processing	8th sem IT	Gnomio site, Moodle	https://pgolar.gnomio.com	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
	Prof. Hemlata Sahu	Programming Logic & Design Using C	3rd sem IT	Gnomio site, Moodle	https://hemlatasahu.gnomio.com	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
		Design & Analysis of Algorithm	5th sem IT	Gnomio site, Moodle	https://hemlatasahu.gnomio.com	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
		Internet Programming	6th sem IT	Gnomio site, Moodle	https://hemlatasahu.gnomio.com	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
	Prof. Manali Patki	Gaming Architecture and Programming	8th sem IT	Gnomio site, Moodle	https://manalipatki.gnomio.com/	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
	Prof. Pooja Walke	Artificial Intelligence	7th sem IT	Gnomio site, Moodle	https://poojaw.gnomio.com/	PO1,PO2,PO3,PO5,PO7,PO12	
		Distributed Systems	8th sem IT	Gnomio site, Moodle	https://poojaw.gnomio.com/	PO1,PO2,PO3,PO5,PO7,PO12	

	Prof. Neha Singh	**Software Engineering**	**5th sem IT**	**Gnomio site, Moodle**	**https://nsingh.gnomio.com**	**PO1,PO2,PO3,PO5,PO7,PO12**	**PSO 1**
		Object Oriented Methodlogy	**5th sem IT**	**Gnomio site, Moodle**	**https://nsingh.gnomio.com**	**PO1,PO2,PO3,PO5,PO7,PO12**	**PSO 1**
	Prof. Vishal Tiwari	**Ethics in Information Technology**	**3rd sem IT**	**Gnomio site, Moodle**	**https://vtiwarisvpcet.gnomio.com/**	**PO1,PO2,PO3,PO5,PO7,PO12**	**PSO 1**
		Operating Systems	**6th sem IT**	**Gnomio site, Moodle**	**https://vtiwarisvpcet.gnomio.com/**	**PO1,PO2,PO3,PO5,PO7,PO12**	**PSO 1**
		Database Management System	**6th sem IT**	**Gnomio site, Moodle**	**https://vtiwarisvpcet.gnomio.com/**	**PO1,PO2,PO3,PO5,PO7,PO12**	**PSO 2**
	Prof. Praveen Sen	**Algorithms and Data Structures**	**4th Sem IT**	**Gnomio site, Moodle**	**https://psen.gnomio.com**	**PO1,PO2,PO3,PO5,PO7,PO12**	**PSO 1**
		Java Programming	**5th sem IT**	**Gnomio site, Moodle**	**https://psen.gnomio.com**	**PO1,PO2,PO3,PO5,PO7,PO12**	**PSO 1**

Course Website (Other LMS)

Academic Year	Faculty Using ICT tools	Subject	Semester	Details	Link	PO	PSO
2019-20	Prof. Manali Patki	Gaming Architecture and Programming	8th sem IT	Schoology	https://app.schoology.com/course/2306650561/materials?f=177208019	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
		Software Testing and Quality Assurance	7th sem IT	Schoology	https://app.schoology.com/course/2153154704/materials	PO1,PO2,PO3,PO5,PO7,PO12	PSO1
		System Programming	5th sem IT	Schoology	https://app.schoology.com/course/2072701177/materials?f=162081549	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
	Prof. Hemlata Sahu	Design & Analysis of Algorithm	5th sem IT	1. LMS: Schoology	https://www.schoology.com/	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
		Operating system	6th sem IT	1. LMS: Schoology	https://www.schoology.com/	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1

		Theory of Computation	4th sem IT	Schoology	https://app.schoology.com/course/1937979969/materials	PO1,PO2,PO3,PO5,PO7,PO12	PSO1
	Prof. Manali Patki	Software Testing and Quality Assurance	7th sem IT	Schoology	https://app.schoology.com/assignment/1878801396/assessment_results	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1
		System Programming	5th sem IT	Schoology	https://app.schoology.com/course/1055014948/materials?f=126453268	PO1,PO2,PO3,PO5,PO7,PO12	PSO 1

Spoken Tutorial

Academic Year	Faculty Using ICT tools	Subject	Semester	Details	Link	PO	PSO
2020-21	Prof. Praveen Sen	Java Programming	5th sem IT	To test the knowledge gained in theory and practical of Java	https://www.spokentutorial.com	PO1,PO2,PO3,PO5,PO7, PO12	PSO1
	Prof. Hemlata Sahu	Programming Logic & Design Using C	3rd sem IT	To test the knowledge gained in theory and practical of C Programming	https://www.spokentutorial.com	PO1,PO2,PO3, PO9,PO5,PO7,Po10, PO11, PO12	PSO1
	Prof. Hemlata Sahu	Internet Programming	6th Sem IT	To test the knowledge gained in theory and practical of HTML	https://www.spokentutorial.com	PO1,PO2,PO3, PO5,PO7, PO9, Po10, PO11, PO12	PSO1
2019-20	Prof. Shabana Pathan	Programming Logic & Design Using C	3rd sem IT	PLDC-Spoken tutorial	https://www.spokentutorial.com	PO1,PO2,PO3,PO5,PO7, PO12	PSO1

	Prof. Hemlata Sahu	Internet Programming	6th Sem IT	To test the knowledge gained in theory and practical of HTML	https://www.spokentutorial.com	PO1,PO2,PO3, PO5,PO7,PO9, Po10, PO11, PO12	PSO1
	Prof. Shabana Pathan	Programming Logic & Design Using C	3rd sem IT	PLDC-Spoken tutorial	https://www.spokentutorial.com	PO1,PO2,PO3,PO5,PO7, PO12	PSO1
	Prof. Pooja Walke	PHP and MySQL	Even Semester	To test the knowledge gained in theory and practical of DBMS	https://www.spokentutorial.com	PO1,PO2,PO3, PO5, PO7, PO11, PO12	PSO1
	Prof. Harshala Shingne	Java Programming	5th Sem IT	To test the knowledge gained in theory and practical of Java	https://spoken-tutorial.org	PO1,PO2,PO3,PO5,PO7, PO12	PSO1
2018-19	Prof. Harshala Shingne	Object Oriented Methodlogy	4th Sem IT	Beyond syllabus	https://spoken-tutorial.org	PO1,PO2,PO3,PO5,PO7, PO12	PSO1

Practical Mini Project

Academic Year	Faculty Using ICT tools	Subject	Semester	Details	Link	PO	PSO
2020-21	Prof. Manali Patki	Gaming Architecture &PRogramming	8th sem IT	Miniproject using Unity by students	-	PO5,PO7,PO9,PO12	PSO1
	Prof. Shabana Pathan	Computer Graphics	5th sem IT	Miniproject using Animation by students	-	PO1,PO2,PO3,PO5,PO7, P12	PSO1
2019-20		Gaming Architecture &PRogramming	8th sem IT	Miniproject using Unity by students	-	PO5,PO7,PO9,PO12	PSO1
	Prof. Priti Golar	Data Warehousing and Mining	7th sem IT	For Curriculum	-	PO5,PO7,PO9,PO12	PSO1
	Prof. Pooja Walke						
	Prof. Hemlata Sahu	Programming Logic & Design Using C	3rd sem IT	For Curriculum	-	PO1,PO2,PO3,PO5,PO7, PO12	PSO:1
		ADS, Internet Programming	4th and 6th sem IT		-	PO1,PO2,PO3,PO5,PO7, PO12	PSO:1

	Prof. Manali Patki	**Programming Logic & Design Using C**	**3rd sem IT**	**For Curriculum**	**-**	**PO1,PO2,PO3,PO5,PO7, PO12**	**PSO: 1**
	Prof. Harshala Shingne	**Internet Programming**	**6th sem IT**	**Curriculum**	**-**	**PO1,PO2,PO3,PO5,PO7, PO12**	**PSO: 1**
2018-19	**Prof. Shabana Pathan**	**Computer Graphics**	**5th sem IT**	**Miniproject using Animation by students**	**-**	**PO1,PO2,PO3,PO5,PO7, PO12**	**PSO1**
		Gaming Architecture &PRogramming	**8th sem IT**	**Miniproject using Unity by students**	**-**	**PO1,PO2,PO3,PO5,PO7, PO12**	**PSO1**
	Prof. Hemlata Sahu	**Programming Logic & Design Using C**	**3rd sem IT**	**Curriculum**	**-**	**PO1,PO2,PO3,PO5,PO7, PO12**	**PSO: 1**
		Algorithms and Data Structures	**4th sem IT**	**Curriculum**	**-**	**PO1,PO2,PO3,PO5,PO7, PO12**	**PSO: 1**

Any other (QUIZ, Cross Word etc.)

Academic Year	Faculty Using ICT tools	Subject	Semester	Details	Link	PO	PSO
2020-21	Prof. Shabana Pathan	Computer Graphics	5th sem IT	Quiz using Moodle	https://spathan.gnomio.com	PO1,PO2,PO3	PSO1
	Prof. Priti Golar	Digital Image Processing	8th sem IT	Quiz on Image Transformation using Moodle	https://pgolar.gnomio.com/mod/quiz/view.php?id=209	PO1,PO2,PO3,PO5,PO7, PO12	PSO2
				Quiz on Colour Image Processing using Moodle	https://pgolar.gnomio.com/mod/quiz/view.php?id=212	PO1,PO2,PO3,PO5,PO7, PO12	PSO2
				Quiz on Image Restoration using Moodle	https://pgolar.gnomio.com/mod/quiz/view.php?id=248	PO1,PO2,PO3,PO5,PO7, PO12	PSO2
				Quiz on Imgae Segmentation using Moodle	https://pgolar.gnomio.com/mod/quiz/view.php?id=270	PO1,PO2,PO3,PO5,PO7, PO12	PSO2

		Theory of Computation	**4th Sem IT**	**Quiz on Unit No. 5 using Moodle**	**https://pgolar.gnomio.com/mod/quiz/view.php?id=251**	**PO1,PO2,PO3,PO5,PO7, PO12**	**PSO2**
				Quiz on Unit No. 6 using Moodle	**https://pgolar.gnomio.com/mod/quiz/view.php?id=283**	**PO1,PO2,PO3,PO5,PO7, PO12**	**PSO2**
	Prof. Hemlata Sahu	**Programming Logic & Design Using C**	**3rd sem IT**	**Quiz using Moodle**	**https://hemlatasahu.gnomio.com**	**PO1,PO2,PO3, PO11,PO12**	**PSO1**
	Prof. Hemlata Sahu	**Design & Analysis of Algorithm**	**5th Sem IT**	**Quiz using Moodle**	**https://hemlatasahu.gnomio.com**	**PO1,PO2,PO3, PO11,PO12**	**PSO1**
	Prof. Vishal Tiwari	**Ethics in Information Technology**	**3rd sem IT**	**Quiz using Moodle**	**https://vtiwarisvpcet.gnomio.com/**	**PO1,PO2,PO3, PO11,PO12**	**PSO1**
		Operating Systems	**6th sem IT**	**Quiz using Moodle**	**https://vtiwarisvpcet.gnomio.com/**	**PO1,PO2,PO3, PO11,PO12**	**PSO1**
	Prof. Hemlata Sahu	**Internet Programming**	**6th sem IT**	**Quiz using Moodle**	**https://hemlatasahu.gnomio.com**	**PO1,PO2,PO3, PO11,PO12**	**PSO1**

2019-20	**Prof. Harshala Shingne**	**Data Communication**	**3rd sem IT**	**Crossword plugin of Gnomio site for data communication**	**https://datacommunication.gnomio.com/mod/game/attempt.php**	**PO1,PO2,PO3,PO5,PO7,PO12**	**PSO2**
		Digital Image Processing	**8th sem IT**	**Crossword plugin of Gnomio site for digital image processing concept**	**-**	**PO1,PO2,PO3,PO5,PO7,PO12**	**PSO2**
2018-19		**Data Communication**	**3rd sem IT**	**Created crossword online throughn crosswordlab.com**	**-**	**PO1,PO2,PO3,PO5,PO7,PO12**	**PSO2**
		Object Oriented Methodlogy	**4th Sem IT**	**Created crossword online throughn crosswordlab.com**	**-**	**PO1,PO2,PO3,PO5,PO7,PO12**	**PSO2**
	Prof. Manali Patki	**System Programming**	**5th Sem IT**	**Created crossword online throughn crosswordlab.com**	**-**	**PO1,PO2,PO3,PO5,PO7,PO12**	**PSO2**

Webinar

Academic Year	Faculty Using ICT tools	Subject	Semester	Details	Link	PO	PSO
2020-21	Prof. Hemlata Sahu	Design & Analysis of Algorithm	5th sem IT	Dynamic Programming	https://www.techgig.com	PO1,PO2,PO3, PO4,PO5,PO7,PO12	PSO1
2019-20		Internet Programming	6th Sem IT	Asynchronous programming using java script	https://www.techgig.com	PO1,PO2,PO3,PO5,PO7,PO12	PSO1

Self Made You Tube Video

Academic Year	Faculty Using ICT tools	Subject	Semester	Details	Link	PO	PSO
2019-20	Prof. Harshala Shingne	Digital Image Processing	8th Sem IT	Huffman coding	https://www.youtube.com/watch?v=PWj4j98qUx0	PO1,PO2,PO3,PO5,PO7,PO12	PSO1
				Arithmetic Encoding	https://www.youtube.com/watch?v=5tog7dbehKY	PO1,PO2,PO3,PO5,PO7,PO12	PSO1
					https://www.youtube.com/watch?v=-vvgd87antk	PO1,PO2,PO3,PO5,PO7,PO12	PSO1
				Chain Code	https://www.youtube.com/watch?v=q1LYyZb3mjk	PO1,PO2,PO3,PO5,PO7,PO12	PSO1
2018-19	Prof. Priti Golar	Data warehousing and Mining	7th Sem IT	How to create website using Word-Press	https://www.youtube.com/watch?v=Lh3Bgg5pLDA	PO1,PO2,PO3,PO5,PO7,PO12	PSO1
2018-19	Prof. Manali Patki	System Programming	5th sem IT	SP Unit 1 Lecture 1	https://www.youtube.com/watch?v=xzUcG5RNrdk	PO1,PO2,PO3,PO5,PO7,PO12	PSO1

E-Notes

Academic Year	Faculty Using ICT tools	Subject	Semester	Details	Link	PO	PSO
2020-21	Prof. Shabana Pathan	Computer Graphics	5th sem IT	PPTs ,PDF	https://spathan.gnomio.com	PO1,PO2 ,PO12	PSO1
		Ecomm ERP	8th sem IT	PPTs ,PDF	https://spathan.gnomio.com	PO1,PO2 ,PO12	PSO1
	Prof. Priti Golar	Data Warehousing and Mining	7th sem IT	PPTs ,PDF, ebooks	https://pgolar.gnomio.com	PO1,PO2 ,PO3,PO5,PO7,PO12	PSO1
		Digital Image Processing	8th sem IT	PPTs ,PDF, ebooks	https://pgolar.gnomio.com	PO1,PO2 ,PO3,PO5,PO7,PO12	PSO1
	Prof. Hemlata Sahu	Programming Logic & Design Using C	3rd sem IT	PPTs ,PDF, ebooks	https://hemlatasahu.gnomio.com	PO1,PO2 ,PO3, PO11, PO12	PSO1
	Prof. Vishal Tiwari	Ethics in Information Technology	3rd sem IT	PPTs ,PDF, ebooks	https://vtiwarisvpcet.gnomio.com/	PO1,PO2 ,PO3, PO12	PSO1
		Operating Systems	6th sem IT	PPTs ,PDF, ebooks	https://vtiwarisvpcet.gnomio.com/	PO1,PO2 ,PO3	PSO1

Prof. Pooja Walke	Artificial Intelligence	7th sem IT	PPTs ,PDF, ebooks	https://poojaw.gnomio.com/	PO1,PO2 ,PO3, PO11, PO12	PSO1, PSO2
	Distributed System	8th sem IT	PPTs ,PDF, ebooks	https://poojaw.gnomio.com/	PO1,PO2 ,PO3, PO11, PO12	PSO1
Prof. Hemlata Sahu	Design & Analysis of Algorithm	5th sem IT	PPTs ,PDF, ebooks	https://hemlatasahu.gnomio.com	PO1,PO2 ,PO3, PO4, PO12	PSO1
	Internet Programming	6th sem IT	PPTs ,PDF, ebooks	https://hemlatasahu.gnomio.com	PO1,PO2 ,PO12	PSO1