

Innovations by the Faculty in Teaching and Learning

Faculty Using ICT tools						
Sr. No.	ICT tools		Faculty Using ICT tools	Subject	Semester	Link
1	Moodle Platform	Semester and section wise Gnomio website	All Faculty members	All Subject	3 rd /4 th /5 th Semester Sec A	https://pbhagat.gnomio.com/index.php
			All Faculty members	All Subject	3 rd /4 th /5 th Semester Sec B	https://namratanagpurkar@gnomio.com/
			All Faculty members	All Subject	5 rd /6 th /7 th Semester Sec A	https://mskhan.gnomio.com/
			All Faculty members	All Subject	5 rd /6 th /7 th Semester Sec B	https://bsbsvpcet.gnomio.com/
			All Faculty members	All Subject	7 th /8 th Semester Sec A	https://pborele@gnomio.com
			All Faculty members	All Subject	7 th /8 th Semester Sec A	https://pnerkar.gnomio.com/index.php
			All Faculty members	All Subject	3 rd Semester Sec B	https://mea2020@gnomio.com
			All Faculty members	All Subject	3 rd Semester Sec B	https://meb2020.gnomio.com
		Departmental Moodle Platform	M.E Faculties	Mechanical Engineering	ME	https://mesvpcet.gnomio.com
		Moodle platform	Mr. T. A. Aneyrao	Machining Process	4 th Semester	https://taneyrao.gnomio.com/index.php

developed by faculty members for their respective subjects	Mrs. N. A. Nagpurkar	IEED	5th Sem	https://mskhan.gnomio.com/ https://nnamrata.gnomio.com/course
		CA-I	5th Sem	https://bsbsvpct.gnomio.com/
		Mechatronics	6th Semester	https://mskhan.gnomio.com/
	Dr.M.Ahemad	Computer integrated manufacturing	8th Semester	https://minhajahemad.gnomio.com/course/view.php?id=3
	Mr P. J. Borle	Machining Process	4th Semester	https://pborele.gnomio.com
	Dr. B. S. Bhaskar	Energy conversion -I	6th Semester	https://bbaskhar.gnomio.com/course/view
	Mr. M. K. Bhadke	Industrial management	8th Semester	https://manisbhadke.gnomio.com/course/view
	Dr. M. A. Hayat	Automation in Production	8th Semester	https://ahayat.gnomio.com/course/view
	Dr. M. A. Hayat	Advanced Manufacturing Techniques	8th Semester	https://ahayat.gnomio.com/course/view
	Dr. M. A. Hayat	Industrial Robotics	7th Semester	https://ahayat.gnomio.com/course/view
	Mrs. S. S. Nighot	Design of Machine Elements	5th Semester	https://sumre.gnomio.com/course
	Mr. A. A. Augustine	Machine Drawing	6th Semester	https://anthonyaugustine.gnomio.com
	Dr. M. P. Kshirsagar	Heat Transfer	5th Semester	http://mkshirsagar.gnomio.com
	Dr. M. P. Kshirsagar	Refrigeration and Airconditioning	8th Semester	http://mkshirsagar.gnomio.com

			Dr. M. P. Kshirsagar	Data Science for Mechanical engineers	All semester (Skilling course)	http://mkshirsagar.gnomio.com
			Mr. A. K. Saxena	Fluid Mechanics	3rd Semester	https://atulsaxena.gnomio.com/index.php
			Mr.P.R.Bhagat	Energy conversion -I	6th Semester	https://pbhagat.gnomio.com/index.php
			Mr.S.N.Kolhar	Operation Research	6th Semester	https://shantanukolharkar.gnomio.com/index.php
			Dr.P.S.Nerkar	Hydraulic Machine	4th Semester	https://pnerkar.gnomio.com/index.php
			Mr.A.D.Khandare	EEIM	6th Semester	https://adityakhandare.gnomio.com/index.php
2	Self Made Videos Uploaded On Youtube By Faculty	50 Videos uploaded	Dr.Amit Bhende	CAD/FEM	7th Semester	https://www.youtube.com/watch?v=tJk0W9FJy2g
					7th Semester	https://www.youtube.com/results?search_query=Amit+bhende
		All units	Mr.P.R.Bhagat	EC-II	7th Semester	https://www.youtube.com/watch?v=IFbPz4zeD00
			Dr.M.Ahemad	Automation in Production on two topics	8th Semester	https://www.youtube.com/watch?v=nusdZI50s8o&t=92s
						https://www.youtube.com/watch?v=dT1i_sN1tJA&t=114s
				CNC Programmin g07 Videos	8th Semester	https://www.youtube.com/channel/UCdWNOuTGsAscr0iHgJ4uxnA
				MMM 05 videos	5th Semester	https://www.youtube.com/watch?v=aNb7P0z8FtI
			Mr. T. A. Aneyrao	Engineering Metallurgy video Assignment submitted by students	3rd Semester	https://www.youtube.com/watch?v=QAmcBxtuPWI&feature=emb_logo
						https://www.youtube.com/watch?v=XuOTfvFDrrY&feature=emb_logo

						https://www.youtube.com/watch?v=JDM83QHcWmo&feature=emb_logo
						https://www.youtube.com/watch?v=XuOTfVFDRRY&feature=emb_logo
						https://www.youtube.com/watch?v=EOzxi2nSoVY&feature=emb_logo
						https://www.youtube.com/watch?v=xEyiNzbNVzE&feature=emb_logo
		Topic 1 Offset Section	Anthony Augustine	Machine Drawing	3rd Semester	https://www.youtube.com/watch?v=0ainz2ZI_2o
		Topic 2 Half Section				https://www.youtube.com/watch?v=t9PdhkA_hHY
		31 Videos		Engineering Graphics	1st Year	https://www.youtube.com/channel/UCwd66yPlhdOvwwcNuOO6u8w
			Dr.V.C. Sontake	More than 150 videos on Heat Transfer, Engineering Thermodynamics and Energy Conversion - III	3rd ,5th and 8th Semester	https://www.youtube.com/channel/UCjbF5VW-6IO6xzP-BmuVlRQ/featured
3	Google Forms		Mr. A. D. Banerjee	E.G-I	1st Semester	https://docs.google.com/forms/d/1OdGZb3sxBGhKya-qwn2oo8zFCIwIJUfpFK3x2hXIKY
4	WordPress Website		Mrs. N. A. Nagpurkar	Mechatronics	6th Semester	www.svpctmechatronics.wordpress.com https://nnagpurkar.wordpress.com

			Mr. T. A. Aneyrao	Engg Metallurgy & Material Science	3rd Semester	https://tusharaneyrao.wordpress.com/
			Dr.M.Ahemad	Automation in Production	5th Semester	https://minhajahemad.wordpress.com/
			Mr. A. A. Augustine	M/c drawing	3rd Semester	https://anthonyaugustine.wordpress.com/
			Mrs. S. S. Nighot	Design of Machine Elements	5th Semester	https://snighot.wordpress.com/
5	E - Resources	E - Resources developed by faculties are available on college Intranet portal for reference purpose. They are being timely updated and reviewed by respective faculty members based on the comments from industry and academia experts .The E - Resources is made available for the students in the college website so that students can access it at their convenience. Individual subjects in the E - Resources consist of unit wise learning material .				Available on intranet portal http://login.svpct.in/eresourcenew.aspx
6	WhatsApp Group	Use of advance communication media and recent apps for circulation of learning materials.WhatsApp Group for every class is made.students and faculty are added in it.Additionally, all the instructional materials prepared by the faculty like PPT's, notes have been made available through this.				semesterwise group available
7	Add on Courses	Under BSBS(Be skilled Be smart) scheme various courses are offered by inhouse faculty members for students Like Computer Aided Design ,CNC programming, Automobile,Mechatronics and Programmable Logic Controller (PLC).				
8	Think Pair Share	implemented in classroom teaching by faculty members	Mr. M. K. Bhadke	Industrial Engg & Entp Development	5th Semester	
			Mr. A. A. Augustine	M/c drawing	3rd Semester	available Offline
			Mr. A. K. Saxena	Fluid Mechanics	3rd Semester	

9	Flip Classroom	implemented in class room teaching by faculty members	Dr.M.Ahemad	Automation in Production	8th Semester	
			Mr. H. G. Nagpure	Mechanical Measurement & Metrology	5th Semester	
			Mrs. S. S. Nighot	Design of Machine Elements	5th Semester	
			Mr. A. D. Khandare	E.G-I	1st Semester	
			Mr. A. K. Saxena	Fluid Mechanics	3rd Semester	
			Mrs. N. A. Nagpurkar	Industrial Engg & Entp Development	5th Semester	
10	Crossword		Mr. T. A. Aneyrao	Engg Metallurgy & Material Science Tutorial	3rd Semester	offline available
			Mr. H. G. Nagpure	Mechanical Measurement & Metrology	5th Semester	offline available
			Mr. A. K. Saxena	Fluid Mechanics	3rd Semester	offline available
11	Virtual Labs		Dr. M. P. Kshirsagar	Heat Transfer	5th Semester	https://vlab.amrita.edu/?sub=1&brch=194&sim=801&cnt=4
			Mr.H.G.Nagpure/Dr.M.Ahemad	MMM	5th Semester	https://sl-coep.vlabs.ac.in/LinearVariableDifferentialTransformer/Aim.html?domain=Electrical%20Engineering&lab=Sensor%20Lab
			Mr.H.G.Nagpure/Dr.M.Ahemad	MMM	5th Semester	https://sl-coep.vlabs.ac.in/Rtd/Aim.html?domain=Electrical%20Engineering&lab=Sensor%20Lab

			Dr. V. C. Sontake	Heat Transfer	5th Semester	https://vlab.amrita.edu/?sub=1&brch=194&sim=801&cnt=4
	Assignment/ tutorials/ Presentations		M.Ahemad	MMM /AIP	5th Sem /8th Sem	
12	Books Published		Dr.A.R.Bhende	Mathematics for Computer Graphics and Game Programming: A Self-Teaching Introduction	Publisher: Mercury Learning & Information	ISBN-13: 978-1683923565
			Dr. Amit R Bhende	Computer Graphics in Mathematical Approaches	New Age International (P) Limited, New Delhi	ISBN 978-93-86286-00-0
			Dr.A.R.Bhende	Computer Graphics -a Mathematical Approach	Saijyoti publications Nagpur	ISBN:9789381432587
			S.V.Deo	Quantitative Aptitude	Allied Publishers pvt.Ltd	ISBN : 9788184248784
13	Project expo	A dedicated project lab is in department displaying various high end projects	Dr.A.R.Bhende	Lab available	8th Semester	
14	Cutting edge Project		Prof. S.N. Kolharkar	Design and analysis of shock and vibration absorption system for		8th Semester

				locomotive coach vestibule fall plate		
			Mrs. N. A. Nagpurkar	Design and Fabrication of X-Y PLOTTER		8th Semester
15	Modification of Previous year Projects	Previous project works are available for reproduction and modification .Few of them are developed further by other scholars(next year students)	S.A.E Club	Design and Development of All Terrain Vehicle and Go-kart for participation in National level competitions	3rd-8th Semester	Available for students for development and future scope. Students works and modify previous projects
			Dr.M.Ahemad	Design modification and Fabrication of peanut shelling machine (previous year project is modified)	8th Semester	
16	SAE,BAJA and GO Kart.	● Students are active members of the professional body of SAE India and e-yantra lab.● The ATV vehicle is fabricated in-house in the Institution for participation in the National contest like BAJA and GO Kart.●Students and faculty take initiative in self-learning, emerging technologies and practical concepts.●Then these faculty and students teach other students by organizing different sessions and workshop wherein participants are assigned different tasks.				https://www.stvincentngp.edu.in/mechanical/#tab-id-10
		Details of Student Achievements				
		Academic Year	Name of the Competition/events	Remark		
		2016-17	AUTO INDIA RACING	Secured 10th position amongst 30 teams		

			CHAMPIONS HIP		
		2017-18	INDIAN KART RACING CHAMPIONS HIP	Acceleration Test : FIRST	
				Endurance Test : FIRST	
				Design evaluation : SECOND	
				Weight test : THIRD	
				Innovation Presentation : THIRD	
				Fuel Economy Test : THIRD	
				Business Plan : FIFTH	
				OVER ALL : FIRST	
				Rs. 1,20,000 Prize	
		2018-19	INDIAN KART RACING CHAMPIONS HIP	National Champion Rs. 1,00,000 Prize	
			BAJA	18th Rank	
		2019-20	Formula Bharat 2020	Participating	
			BAJA SAEINDIA	Over ALL : Ninth out of 170 teams	
		2020-21	Formula Bharat 2020	Over ALL : 21 st Rank out of 67 teams	
			BAJA SAEINDIA 2021	1 st Position in Journey Challenge	
			BAJA SAEINDIA 2021	overall 41st rank out of 200 teams	

			ELECTRIC FORMULA BHARAT 2022.	Preparing	
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Patent Filing

Sr.No	Title of Patent	Session	Name of Investigator(s)	Date of Patent Filling & Application No.	Date of Publication	Status
1	Rubber Suspension System	2016-17	Prof. Homeshwar Nagpure	25/04/2016 201621014360A	08/07/2016	Application Awaiting Examination
2	Electro Mechanical Gear Shifter	2017-18	Prof. Homeshwar Nagpure	21/08/2017 201721029529A	15/09/2017	Application Awaiting Examination
3	ROTAR DISC MOTION UTILISING POWER SOURCE (RDMUPS)	2017-18	Prof. Homeshwar Nagpure	23/04/2018 201821015304 A	25/05/2018	Application published
4	Vibration dumping system for Go-kart	2018-19	Prof.R. N. Chakaraborty	20/05/2019 201921019835A	24/05/2019	Application published
5	Hybrid draft Biomass cook stove	2018-19	Prof.Milind Kshirsagar	29/03/2019 201921012481A	10/05/2019	Application published
6	Scrap trip guiding and collection system for steel rolling plant	2018-19	Prof. G. R. Boob	05/09/2018 '201821033272	06/03/2020	Application published

7	Patent on "System Design for Induction Hardening of Wheels Used in Overhead Cranes"	2020- 21	Dr. Sushant Satputaley	28/06/2021 202121028862	10/07/2021	Application published
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