RCOEM

**Shri Ramdeobaba College of
Engineering and Management, Nagpur**

Reflection

Newsletter

IN this issue

Letter From The Editor

The first quarter of the calendar started with new hopes after COVID-19 pandemic. This quarter gives inspiration to start new research projects, consultancies, placement activities.
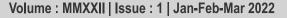
Departments has conducted parent Meet, Alumni Meet, Webinars, Carrier guidance activities guest lectures etc.

The faculty members participated in conferences, STTP's, FDP's and also had their research work published in international journals of repute. CDPC cell did the wonderful job in procuring job offers for our students.

Overall, this quarter saw the college delivering and gearing up for the future.

It is well said by Plato, "Good actions give strength to ourselves and inspire good actions in others".

Happy reading!!!

RCOEM-TATA-CIIIT

1. Compliance to FER of Patents published at RCOEM-TATA-CIIIT:

RCOEM-TATA-CIIIT Faculty In-Charge, Dr. Vishal Shukla and team of faculty & students, had applied for examination of 3 previously published patents.F.E.R. for these patents were received from patent office. The basic questions about inventions, advantages, providing solution to technical problems and advancements compared to cited documents were answered for the following 3 patents.

1. A Pneumatic Sand Rammer with Vibration Isolator (202121022980)
2. A Device for Making Flower Garland (202121022981)
3. A Device for Generating Profile on Pipes, (202121022976)

Also, a research paper on ' FEA of contact between scleral buckle and human eye tissues' contributed by Dr. V. V. Shukla and Pooja Shende is published in scopus indexed journal Asia-Pacific Journal of Science & Technology, vol 27, issue 1.

2. **Certificate distribution of 8 numbers of Two days workshops (16 days) :**

Certificates for 8 numbers of CIIIT training awareness workshops, held by CIIIT for RCOEM students during 5-24 Dec.2021, were distributed at the hands of Principal Dr. R. S. Pande & HoD Mech. Engg. Dr. K N Agrawal on 8th Jan 2022. Mr Harsh Sharma of Final year Mech. Engg., was also felicitated for his contribution in recent consultancy project completed by CIIIT.

3. **Completion of Two weeks' Internship 10-21 Jan on FEA/CAE software FEAST, Patran& Nastran.**

Two weeks' software Internship on FEA/CAE software started from 10th Jan to 21st Jan. In coordination with experts from Tata Technologies Ltd. Mr. Girish, Mr. Harish & Mr. Santosh delivered the contents online, from morning 9 to 11 am and evening 4 to 6 pm. There were 25 registrations, 4 from other colleges like Anjuman CET, KDK College of Engg., Nagpur Institute of Technologies and 21 from RCOEM. As per Covid protocols and guidelines from Government authorities, 2 batches of 13 & 12 were made and they attended the sessions separately in morning & evening batches. Rs 29,000 is received towards registration fees in TBI Accounts.
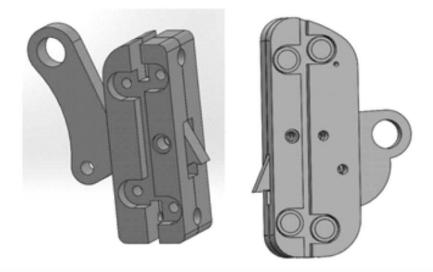
4. **Ongoing Internships and Project updates**

A. **Wind-mill fall arrester**

Two students of Mechanical Engineering sem-VIII have joined for Six months internships at CIIIT. Ojas Maywade & Devesh Taori, are carrying out extension of previously funded RGSTC-TIFAC project (for Rs. 2.81 Lakh) titled "Design & Development of Fall arrester for Tall Ladders" and Bhavesh Verma is doing work of manufacturing of resin-based bamboo boards.

Climbing is a dangerous task for technicians in various areas like construction activities, maintenance of electric poles etc. Safety of the technicians in maintenance of machines has gained importance. Over the decades, falls from a height have caused the most deaths in the construction business, and these incidents are increasing at a faster rate than the number of workers in the industry. It is therefore important that the safety of the workers employed by the wind energy sector for service and maintenance of the windmills is prioritized. The windmill ladders use a guided rail type fall arrester that enables a maintenance worker to safely work at any height on the windmill shaft, or any other building.

B. DEVELOPMENT OF BAMBOO EPOXY COMPOSITE

Research Internship - Bhavesh Verma Project- Himanshu Trivedi, AmishaKaremore

The use of natural fibers in reinforced plastic materials as a composite has had a favorable impact on the development of green composites in our daily lives. One of the most serious issues that has arisen is the deterioration of polymeric composites when exposed to environmental factors such as humidity and temperature. Natural FRP composites are biodegradable, lightweight, and robust. We're testing a bamboo epoxy resin composite with a high resin-to-bamboo-fiber ratio, then comparing the results to man-made fibre composites using various tensile tests.

OBJECTIVES: The main objective is to investigate and analyze the mechanical properties of a composite material using bamboo fiber. To explore the processing feasibility of bamboo fiber composites by different techniques and to study the resulting fiber and composite properties. To carry out a systematic study of the influence of processing parameters on the mechanical properties of bamboo fibers.

6.   Providing Technical support and technical facility for In House 3-D Printing Projects:

3-D printed parts as asked by RCOEM faculty/Ph.D. Research scholars/M. Tech. students / Robocon team etc., were given under In-house project work on 3-D printer.

A.   ROBOCON-ANGLE SUPPORT
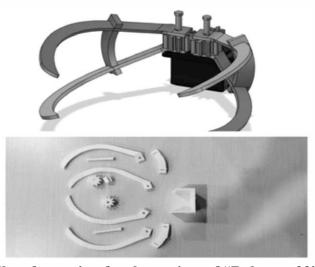
CIIIT supported ROBOCON Team of RCOEM for 3-D printing of Robot parts.Mayank Deshpande & Kunal Singh students from robotics club department guided by prof. A.K. Jha had successfully completed the 3D printing project of angle support for the project of "Robocon 22". PLA was used as printing material. It took about 24 hours to print 272 grams of 2 PLA parts on Ultimaker 3-D printer.

Angle support for the project of "Robocon 22".

B.   BALL PICKING CLAW (ROBOCON'22)

Kunal Singh, a students of Robotics club guided by prof. A.K. Jha had successfully completed the 3D printing project of claw for testing for the project of "Robocon 22". PLA was used as printing material. It took about 7 hours to print 60 grams for 9 PLA parts on Ultimaker 3-D printer.
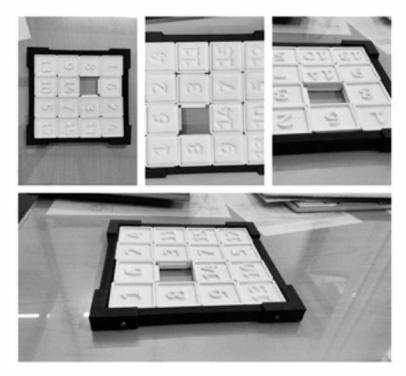
Claw for testing for the project of "Robocon 22".

C. FULLY AUTOMATED 15 PUZZLE SOLVER

Nabeel khan, Nitesh Dani. From CSE department guided by Dr. Ramchand Hablani had successfully completed the 3-D printing of fully automated 15 puzzle solver comprising of 18 parts and weighing 166 gms. It has taken about 17 Hours to print on Ultimaker 3 extended 3-D Printer.

15 puzzle solvers

D. DUAL TURBINE BLADES

CIIIT has provided technical services to 3-D print a couple parts of dual turbine blades, designed by Prof. Ganesh Shetiye, Iindustrial engineering made of ABS, weighing 111 gms
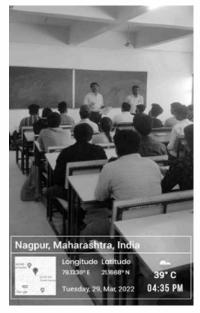
7. NAAC PTV to CIIIT.

The NAAC peer team visited CIIIT on 22nd & 23rd February, 2022. The student committee comprising ofAmishaKaremore, Aman Singh, Jinisha Zoting,Raman Mantri, Om Sharma, Aditya Chaudhari,Kunal Singh, MrunalMohatkar, AnshumanPrajapati, Shantanu kale, SiddhantBinani, Shubhangi Bokde, Himanshu Trivedi, Rishi Agrawal, Shri Tiwari, DipaliGokheand Himanshu Trivedi demonstrated various technical facilities to NAAC Peer Team at CIIIT.

8. Awareness and Branding of CIIIT training courses.

Towards creating awareness about the technical courses being offered by CIIIT, Dr. Vishal Shukla & Dr. G. R Nikhade visited and presented about the available unique skill enhancement programs to the faculty and students of Jhulelal Institute of Technology and Nagpur Institute of Technology. Branding of technical courses available at CIIIT are also being aired through FM channels.

9. Power Back-up and other facilities added to CIIIT infrastructure.

a) CIIIT is now equipped with 30 kVA UPS system

b) Bench grinder & table vice is now available for post processing of VMC jobs

10. Training calendar of CIIIT courses

Training Calendar April-Dec 2022

Month	Date	Training Title
May	03 May 2022	Solid Modelingcatia v6
	5 - 7 May 2022	Machine Learning
	9 - 13 May 2022	Solid Modelingcatia v6
	9 & 10 May 2022	Manufacturing Execution System
	9 - 14 May 2022	VMC & CNC Programming
June	1 June 2022	Industrial Robotics
	6 - 10 June 2022	Industrial Robotics
	6 - 18 June 2022	FEA/CAE (Softwares covered FEAST, PATRAN-NASTRAN, ANSYS)
	1 - 30 June 2022	3-D Printing & 3D scanning (Reverse Engineering)
	1 - 30 June 2022	Mechatronics & Industrial Automation PLC SCADA
July	4 & 5 July 2022	Internet of Things (IoT)
August	1 - 5 Aug 2022	Solid Modelingcatia v6
	1 - 5 Aug 2022	Machine Learning
	22 - 27 Aug 2022	VMC & CNC Programming

Month	Date	Training Title
September	1 - 30 Sept 2022	FEA/CAE (Software's covered FEAST, PATRAN-NASTRAN, ANSYS)
	12 - 16 Sept 2022	Industrial Robotics
October	3 - 22 Oct 2022	3-D Printing & 3D scanning (Reverse Engineering)
	10 - 15 Oct 2022	VMC & CNC Programming
	11 & 12 Oct 2022	Manufacturing Execution System
	17 - 19 Oct 2022	Internet of Things (IoT)
November	7 – 11 Nov 2022	Solid Modelingcatia v6
Nov. & Dec.	1 Nov – 30 Dec 2022	Mechatronics & Industrial Automation PLC SCADA
December	5 - 9 Dec 2022	Industrial Robotics
	12 - 17 Dec 2022	FEA/CAE (Softwares covered FEAST, PATRAN-NASTRAN, ANSYS)
	19 - 31 Dec 2022	3-D Printing & 3D scanning (Reverse Engineering)

Career Development and Placement Cell

S.N.	Date	Events	Package	Status
1	05-Jan-22	Stetig Consulting | Hiring 2021/2022	4.5 LPA	Close Campus
2	06-Jan-22	NTT DATA - 2022 Campus Recruitment Drive	3.8 LPA	Close Campus
3	06-Jan-22	Kratin Software Solutions Pvt. Ltd Internship 2022	5 K	Internship
4	06-Jan-22	Bewakoof Brands Pvt. Ltd Campus hiring 2021 & 2022	6 LPA	Close Campus
5	06-Jan-22	MyCaptain Climber Campus Drive 2021,2022	4.5 LPA	Close Campus
6	07-Jan-22	EY India Exclusive Opportunity Senior Analyst 2022	6.3 LPA	Close Campus
7	10-Jan-22	Bristlecone (Mahindra Group) Campus Hiring 2022	4.25 LPA	Close Campus
8	10-Jan-22	TCS Nagpur Internship only for TCS offered students - 2022	3.5 LPA	Internship
9	11-Jan-22	Info Edge India Limited| Software Developer 2022	14.5 LPA	Close Campus
10	14-Jan-22	Ernst & Young Pool-Campus Drive 2021	4.5 LPA	Pool Campus
11	14-Jan-22	RNTBCI Campus Drive for 2022	4.25 LPA	Close Campus
12	15-Jan-22	Zycus Campus Drive for 2022	5 LPA	Close Campus
13	15-Jan-22	Godrej Agrovet Internship/Hiring Drive of 2022	6.5 LPA	Close Campus
14	16-Jan-22	Sinope Technologies Inc 2022 Batch by Elitmus	1.5 LPA	Test
15	17-Jan-22	InfoCepts Internship Drive for Batch 2020/21/22	12 K	Internship
16	17-Jan-22	Netcracker Campus Hiring-2022	8 LPA	Close Campus
17	18-Jan-22	Adani Group Campus Recruitment Drive of (2022 batch)	6 LPA	Close Campus
18	18-Jan-22	RENAULT NISSAN TECHNOLOGY BUSINESS CENTRE INDIA- GET Role for 2022 Batch	4.25 LPA	Close Campus
19	18-Jan-22	Tiger Analytics - Pool Campus Drive - 2022 Pass Outs	6.5 LPA	Pool Campus
20	18-Jan-22	Tech Mahindra Campus Drive 2021	3.25 LPA	Close Campus
21	18-Jan-22	Amdocs Campus Drive 2019,2020,2021 Passout Batch	4 LPA	Close Campus
22	18-Jan-22	Eaton Off-Campus Drive -2021 Pass-out Batch	6.25 LPA	Off Campus
23	19-Jan-22	Collabera Services Campus Drive for 2023, 2022, 2021 and 2020	3.6 LPA	Close Campus
24	19-Jan-22	ZS Associates (Pune) 2022	8.5 LPA	Close Campus
25	21-Jan-22	MPM Pvt. Ltd Campus drive 2021	3-5 LPA	Close Campus
26	22-Jan-22	Nexturn technologies- Campus Drive 2021,2022	3 LPA	Close Campus
27	22-Jan-22	Job opprtunities in Core Branches & Industrial Application (Prof. Allan Abraham)		Seminar
28	24-Jan-22	ASW Technology Campus Drive 2021	45 K	Close Campus

S.N.	Date	Events	Package	Status
29	24-Jan-22	AARKAY Techno Consultancy Pvt. Ltd. Internship/ Hiring 2021,(2022-5th sem)	3-5 LPA	Close Campus
30	25-Jan-22	Two Months Internship at Eaton Innovation Center 2023 Pass-out	12 K	Internship
31	27-Jan-22	SANKEY BUSINESS SOLUTIONS Campus Drive 2022, 2021, 2020	5 LPA	Close Campus
32	29-Jan-22	Corporate Email Etiquettes (Prof. Allan Abraham)		Seminar
33	31-Jan-22	Simple works Solutions Pvt. Ltd Campus Drive for 2022	4.5 LPA	Close Campus
34	01-Feb-22	NeoSOFT Technologies Pune - 2022, 2021, 2020, 2019	3 LPA	Close Campus
35	01-Feb-22	Mercedes-Benz India Pvt. Ltd. 2022	12 LPA	Close Campus
36	01-Feb-22	Datametica Solutions Pune 2022	6.5 LPA	Close Campus
37	02-Feb-22	ORAIPL Internship Drive (Ozone Research & Applications (India) Pvt. Ltd.) 2022	6 K	Internship
38	03-Feb-22	Tejas Networks 2022 by Elitmus	11 LPA	Close Campus
39	03-Feb-22	Tech Mahindra Campus Hiring 2022	3.25 LPA	Close Campus
40	05-Feb-22	Time Management (Prof. Allan Abraham)		Seminar
41	07-Feb-22	Pentagon Space Pvt Ltd. Campus Drive 2022	3 LPA	Close Campus
42	08-Feb-22	Citiustech Campus Hiring 2022	5.5 LPA	Close Campus
43	08-Feb-22	Neeyamo Campus Hiring for BE-All Branches 2022	3.5 LPA	Close Campus
44	08-Feb-22	Microland Campus Recruitment Drive 2022	3.25 LPA	Close Campus
45	08-Feb-22	Mobileum Campus Recruitment 2022	9 LPA	Close Campus
46	09-Feb-22	Byju's Campus Drive 2022	6 LPA	Close Campus
47	11-Feb-22	Prodapt Solutions 2022	7.5 LPA	Close Campus
48	14-Feb-22	Hexaware for 2021 Batch	3 LPA	Pool Campus
49	15-Feb-22	Climate Connect hiring 2020/2021/2022 batch	3.6 LPA	Close Campus
50	16-Feb-22	ABInBev GCC India 2022,2023	12 LPA	Close Campus
51	16-Feb-22	Hiring Drive with Microsoft India 2021 -2022	28.15 LPA	Close Campus
52	17-Feb-22	ZS Associates (Pune) Tableau Cloud Application Administrator 2022	8.5 LPA	Close Campus
53	17-Feb-22	Raja Software Labs (Pune) 2022	7.25 LPA	Close Campus
54	17-Feb-22	ABM Knowledgeware Ltd. Campus Recruitment Drive 2020/2021/2022	3 LPA	Close Campus

Reflection

S.N.	Date	Events	Package	Status
55	18-Feb-22	Fractal 2022 Women Drive in Engineering	10 LPA	Close Campus
56	19-Feb-22	Aloha Technology Pvt. Ltd. Pune 2022	5 LPA	Close Campus
57	19-Feb-22	Verzeo 2022/2021/2020/2019	4 LPA	Close Campus
58	22-Feb-22	Campus to Corporate Industry Readiness Pre- Final Year (Prof. Allan Abraham)		Seminar
59	25-Feb-22	Tata Advanced Systems Limited Campus Drive 2022	5.5 LPA	Close Campus
60	28-Feb-22	TechVerito Pune Campus Recruitment 2022	6 LPA	Close Campus
61	02-Mar-22	upGrad Campus Drive for the year 2020,2021 & 2022	8 LPA	Close Campus
62	02-Mar-22	OCW, Nagpur campus drive for the year 2021 & 2022		Close Campus
63	03-Mar-22	Preparation for upcoming placements in ECE by Dr. Parag Jawarkar		Seminar
64	04-Mar-22	Preparation for upcoming placements in Civil by Dr. Parag Jawarkar	4.5 LPA	Seminar
65	04-Mar-22	Jindal Aluminum Campus Recruitment Drive for 2022	3.5 LPA	Close Campus
66	04-Mar-22	ThoughtWorks Recruitment Drive (Only Women) -2022	8 LPA	Close Campus
67	04-Mar-22	Trisys IT Services Pvt Ltd Bangalore 2022	4 LPA	Close Campus
68	09-Mar-22	Preparation for upcoming placements in EN & EDT by Dr. Parag Jawarkar		Seminar
69	10-Mar-22	Preparation for upcoming placements in Mech & Indus by Dr. Parag Jawarkar		Seminar
70	11-Mar-22	Know Your Company by Prof. Allan Abraham		Seminar
71	11-Mar-22	Climate Connect hiring 2020/2021/2022 batch	3.2 LPA	Close Campus
72	11-Mar-22	Sterlite Technologies Campus Drive 2022	8 LPA-10 LPA	Close Campus
73	11-Mar-22	TATA TECHNOLOGIES 2022	4.65 LPA	ON Campus
74	11-Mar-22	IndiaMART Campus Drive 2022 Batch	3.3 LPA	Close Campus
75	11-Mar-22	Microland Campus Recruitment Drive 2022	4 LPA	Close Campus
76	12-Mar-22	Datagami Technology services Pvt Ltd 2022	3 LPA	Close Campus
77	12-Mar-22	Tech Mahindra Cerium Systems University Level Pool Campus Drive 2022	3.6 LPA	Close Campus
78	12-Mar-22	Eumentis - IT services firm based in Pune (BE 2022 Hiring)	3.5 LPA	Close Campus
79	12-Mar-22	Indovance: Campus Placement Drive for BE-Civil 2019,2020,2021	3 LPA	Close Campus

S.N.	Date	Events	Package	Status
80	13-Mar-22	Webtech Developers Pvt. Ltd, Pune. BE and MCA Hiring 2022	4 LPA	Close Campus
81	21-Mar-22	ITC Infotech Guwahati Centre Recruitment Program of Fresh Graduates: 2022 Batch	4.25 LPA	Closes Campus
82	21-Mar-22	TCS Digital Hiring for 2022 Batch	6 LPA	Off Campus
83	22-Mar-22	Merkle Sokrati campus drive for 2022 Passout Batch	9.45 LPA	Closes Campus
84	22-Mar-22	Torrent Power Campus Drive 2022	3.25 LPA	Closes Campus
85	23-Mar-22	Kohler Campus Hiring for 2022	4 LPA	Closes Campus
86	23-Mar-22	Federal Bank Campus Recruitment Process 2021-22	9.25 LPA	Closes Campus
87	23-Mar-22	Siemens Internship / Placement Drive 2022	5 LPA	Closes Campus
88	23-Mar-22	TATA TECHNOLOGIES 2022	3.9 LPA	Closes Campus
89	25-Mar-22	Know Your Company - Part II (Prof. Allan Abraham)		Seminar
90	25-Mar-22	AMCAT Presentation for 2023		Training
91	25-Mar-22	Selec Controls Pvt. Ltd 2020,2021,2022 batch	4 LPA	Closes Campus
92	28-Mar-22	Jio Platforms Limited 2022	4 LPA	Closes Campus
93	30-Mar-22	Preparation for upcoming placements in Elect by Dr. Parag Jawarkar		Seminar

Training Course coordinators for Technical Courses offered by RCOEM-TATA-CIIT

Sr. No	Title of the Training course	Name of the course coordinator
1	Machine Learning, Deep Learning	Dr. Ramchand Hablani, Dr.Sweta Jain, Dr Madhuri Tayal
2	Internet of Things	Prof Vipul Lande & Ashlesh Jaiswal Prof Sharmik Admane & Prof Rushiesh Deshmukh
3	Multi-Body Dynamics	Dr. Y M Sonkhaskar & Prof. P B Shiwalkar
4	CFD	Dr. S. S. Joshi, Prof. S. S. Deshmuh, Prof. S. A. Patil
5	FEA/CAE	Dr. G. R. Nikhade & Dr. V. V. Shukla
6	Solid Modeling	Dr. A. K. Jha & Prof. B. C. Bissa
7	MES	Dr. P. S. Deole& Prof. N P Gudadhe
8	Industrial Robotics	Dr. A K Jha &Dr G R Nikhade
9	VMC	Dr. A D Urade& Dr. P. S. Deole
10	3-D Printing & Scanning	Dr. V. V. Shukla
11	Mechatronics & Industrial Automation PLC, SCADA	Prof. P. B Shiwalkar & Dr. S. Balpande, Prof Anjankar

Internship Statistics for 2022

Sr. No	Branch Name	Total No. of Students	Total Enrolled Students (Industry Internship)	No. of Students with Stipend	Highest Stipend
1	CIVIL	139	109	27	20000
2	CSE	146	103	101	80000
3	EE	70	69	31	20000
4	EN	220	140	100	33000
5	EDT	37	21	14	30000
6	ECE	144	96	79	80000
7	IT	71	46	43	50000
8	INDUS	68	49	28	20000
9	ME	79	58	26	24996

Campus Placements Data 2022 till Date:- 13-04-2022							Total Offers					
Branch	Students Enrolled	Students Placed	Percentage %	Min Package (LPA)	Max Package (LPA)	Avg. Package (LPA)	3 to 4.9	5 to 7.9	8 to 11.9	12 to 14.9	15 to 19.9	20+
CIVIL	139	31	22	3.5	6	4.2	29	3	0	0	0	0
Computer Science	146	136	93	3.36	25	6.62	193	150	23	11	11	19
Electrical	70	58	83	3.1	8	4.2	110	12	2	0	0	0
Electronics and Communication	144	132	92	3.1	20	4.5	281	38	8	0	0	4
Electronics Design Technology	37	27	73	3.1	6.5	4.3	37	6	0	0	0	0
Electronics	220	184	84	3.1	8.5	4.3	365	54	6	0	0	0
Industrial	68	41	60	3.36	8	4.2	56	7	1	0	0	0

Campus Placements Data 2022 till Date:- 13-04-2022							Total Offers					
Branch	Students Enrolled	Students Placed	Percentage %	Min Package (LPA)	Max Package (LPA)	Avg. Package (LPA)	3 to 4.9	5 to 7.9	8 to 11.9	12 to 14.9	15 to 19.9	20+
Information Technology	71	69	97	3.36	20	5.4	126	50	11	5	2	2
Mechanical	79	57	72	3.25	8	4.2	90	11	3	0	0	0
MCA	52	14	27	3.5	6.25	4.5	10	4	0	0	0	0
MBA	120	21	18	1.2	11.45	5.36	10	10	1	0	0	0
M.Tech-CSE	14	3	21	3.5	7	4.6	4	1	0	0	0	0
M.Tech-VLSI	6	0	0	0	0	0	0	0	0	0	0	0
M.Tech-HPE	6	0	0	0	0	0	0	0	0	0	0	0
M.Tech-STRUCT	15	0	0	0	0	0	0	0	0	0	0	0
M.Tech-IND	5	0	0	0	0	0	0	0	0	0	0	0
M.Tech-PEPS	8	0	0	0	0	0	0	0	0	0	0	0
Total	1200	773	64	3.08	11.61	4.71	1311	346	55	16	16	25

CDPC-2022 Students' Coordinators

Sr. No.	Name	Branch	Shift	Year
1	LoveshJitendraLulla	CIVIL	1st SHIFT	4th Year
2	SohamMundhada	CSE	1st SHIFT	3rd Year
3	Aditi Mukte	CSE	1st SHIFT	3rd Year
4	Ganesh Thakur	CSE	1st SHIFT	4th Year
5	SejalJibhkate	ECE	1st SHIFT	3rd Year
6	Adhishree Satish Kothiwan	ECE	1st SHIFT	4th Year
7	Anmol PremchandKhetpal	ECE	2nd SHIFT	4th Year
8	Abhishek Agrawal	ECE	1st SHIFT	4th Year
9	Manan Khare	ECE	1st SHIFT	3rd Year
10	SamruddhiParaskar	ECE	1st SHIFT	3rd Year
11	SaachiIyer	EDT	1st SHIFT	3rd Year
12	Neha Nandurkar	EDT	1st SHIFT	3rd Year
13	Sanyam Chandak	EDT	1st SHIFT	4th Year
14	Priyanka Maske	EDT	1st SHIFT	4th Year
15	Himanshu Narendra Gabhane	EE	1st SHIFT	4th Year
16	Ritesh Jaiswal	EE	1st SHIFT	3rd Year
17	Rohan Raj Shrivastav	EE	1st SHIFT	3rd Year

Sr. No.	Name	Branch	Shift	Year
18	Anish Garg	EN	1st SHIFT	3rd Year
19	Sonal Agrawal	EN	1st SHIFT	3rd Year
20	Silky Agrawal	EN	1st SHIFT	3rdYear
21	Anushka Deshmukh	EN	1st SHIFT	4th Year
22	Akanksha Milmile	EN	1st SHIFT	4th Year
23	Leena Tolani	EN	1st SHIFT	3rd Year
24	Rushikesh Patil	EN	1st SHIFT	3rd Year
25	Aanchal Sharma	EN	1st SHIFT	4th Year
26	Mansi Pradip Raghorte	EN	1st SHIFT	4th Year
27	Vaishnavi Sahu	EN	1st SHIFT	4th Year
28	Sanskar Jain	EN	1st SHIFT	3rd Year
29	Ayush Kumar	INDUS	1st SHIFT	3rd Year
30	Aditya Gosewade	INDUS	1st SHIFT	3rd Year
31	Sulbha Rathi	INDUS	1st SHIFT	3rd Year
32	LokeshDwivedi	MECH	1st SHIFT	3rd Year
33	Chinmayaditya Agrawal	MECH	1st SHIFT	3rd Year
34	Yash Miglani	MCA		3rd Year
35	Anjali Sharma	MCA		1st Year
36	Apeksha Tiwari	MCA		1st Year
37	Anushka Tiwari	MCA		1st Year

CDPC 2022 Batch Placement Coordinator –

Reflection

Industrial Visit to Infocepts for 2023 Batch Students Placement Coordinators

Visit to Infocept for Campus Placement 2023

DEPARTMENT OF CIVIL ENGINEERING

Faculty Corner

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Ms. L. R. Gangwani	Groundwater: Making the invisible visible	23.03.2022	Anjuman College of Engineering and Management
2	Anuj Sharma	Speaker	20.03.2022	Regional Training Centre Aurangabad
3	Anuj Sharma	Speaker	15.03.2022	WCOEM, Nagpur

Publications

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
1	Pragya D Harinkhede, Varsha R Harne	Analysis of precast box section of a bridge for different span lengths	IOP Conference Series: Earth and Environmental Science 982 (2022) 012072	01-03-2022	17551 315, 17551 307	doi:10.10 88/1755-1315/982/ 1/012072 Volume 982, 2021	Scopus
2	Nikhil Agrawal, Aakash Sharma, P. B. Kulkarni, P. D. Pachpor	Finite Element Analysis of Beam Section for Lateral-torsional Buckling	Indian Structural Steel Conference	6-8 January	--	--	--
3	Rajendra Khapre, Asim Aziz	Behaviour of Beams with Slender Flanges	Indian Structural Steel Conference	6-8 January	--	--	--
4	Rajendra Khapre, Monika Dhuware	Study on Reduction in Capacity of Hot-Rolled I-Section due to Elevated Temperatures	Indian Structural Steel Conference	6-8 January	--	--	--

STTP/FDP/other Training Attended by Faculty

S.N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
1	Dr. P. P. Dahale	ICT 275: Introduction To Finite Element Method In Engineering	7-18 Feb. 2022	NITTTR Kolkata
2	Dr. A. K. Sharma	Webinar Series Asia Pacific Webinar Series on Safer Road Infrastructure	8-24 Feb. 2022	Global World Safety Facility
3	Dr. A. K. Sharma	International Conclave (Virtual Mode) on "Adoption of Green Construction Practices with Focus on Water Resource"	11-12 Feb 2022	Indian Water Works Association

Departmental Activities

Civil Engg. Dept organized poster making competition on the occasion of World Water Day on 22nd March 2022 for Students of 6th ,7th and 8th standard from various schools of Nagpur. About 42 schools students participated. Maximum 10 student's participation was permitted. Under each class students were awarded 6 prizes as merit 1st, 2nd and 3rd and three consolation prizes. Three consolation prizes were also given to Nagpur Municipal school students. This awareness program was conducted with an aim to learn about how to save water and optimum use of water for sustainable development.

Parents Meet, Alumni Meet and Departmental Installations or Events

Department of Civil Engineering organized NEEV 2022 (National Convention of Civil Engineering Students) under the banner of Civil Engineering Student Association (CESA) from 24th to 26th March 2022. On 24th March, various technical competitions like BUILDCON, ELEVATE, CADWARS, CIVIL CLICKS, SIMCITY and TENDERR FILLING were conducted. More than 150 students from in and around Nagpur participated in these competitions.

CADWAR Competition

SIM CITY Competition

BUILDCON Competition

ELEVATE Competition

A two day workshop was organized on, "Advanced Construction Techniques and Artificial Intelligence in Civil Engineering" on 25th and 26th March 2022. On the first day, the workshop was inaugurated by Er. Naresh Gurbani (Executive Director at Maharashtra, Metro Rail Corporation Limited.) as the Chief Guest. The programme was graced by Head of the Department Dr. M. S. Kadu, CESA Advisor Prof M. S. Tiwari, CESA faculty Incharge Prof Vaishali Rajurkar and other faculty members of Civil Engineering department. The first lecture after the inauguration was delivered by Er. Arun Kumar, General Manager, Nagpur Metro, AFCONS Infrastructure Limited on the Case Study of Ramjhula, a Rail Over Bridge at Main Railway station. Mr. Subhash Mandhan was the second speaker, he talked on Entrepreneur Opportunities in Civil Engineering he covered many features of the construction Industry and new trends associated with it. The second session started with the lecture by Dr.Dilip Mase, he focused on the Rehabilitation of Structures. The session concluded with a hands-ontraining on Non-Destructive Testing conducted by team of P. T. Mase & Associates, Nagpur.

Inauguration Ceremony

Lecture on Opportunities in Civil Engineering

Hands on Training on NDT

On second day of workshop, 25thMarch the Session started by Mr. Aanand Fiske, Director of Green Planet Social Foundation on Bamboo as a Sustainable Building Material, he focused on the use of bamboo in construction. Next lecture in the first session was delivered by Dr Ramesh Meghranani, Director of Neo Infrastructure consultants, on Pre-Engineered Buildings.In last session Dr.Sarang Paranjpe, Director of imaGIS Engines Solutions Private limited talked on Drone Survey. The session concluded with a Hands-on session on drone surveying, participants took active part in the event. Around 120 students from various colleges of Nagpur attended the Workshop.

Lecture on Bamboo as a Sustainable Material

Lecture on Pre-Engineered Buildings

Departmental Activities
Conference, STTP and Guest Lectures organized in Department

S.N.	Conference/STTP/Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Guest Lecture organized "Enhancing Thinking"	Dr. Sarika Bahadure, Assistant Professor Dept. of Architecture, VNIT, Nagpur	1 hr.	12th Feb. 2022
2	Guest Lecture organized "QA/QC of Pile Foundation using Pile Integrity Tests, Crosshole Sonic Logging Tests & High Strain Dynamic Pile Test"	Sujan P. Kulkarni General Manager (Technical) Geo Dynamics Vadodara, Gujarat,	1 hr.	31st Jan. 2022
3	Slope and deflection of determinate Structures	Dr. P.PravinkumarVenkat Rao, Assist. Prof., Earthquake Engineering Research Centre, IIIT Hydrabad	1 hr.	27-01-22
4	Framed buildings under horizontal loads	Dr. Anshuman Shrivastav, HOD Civil Engineering Department, BITS Pilani	1 hr.	20th Oct., 2022

Students' Corner
Student Achievements

Sr. No.	Name of Student	Event	Achievement	Date
1	Mrudani Deosthali	Anecodete (Plants Your Roots or Fly away) Impressions 2021, An Indian Odyssey COE Pune	1st Prize	17-19th December 2021

Reflection

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Faculty Corner

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Abhijeet R. Raipurkar	Course on "Oracle (PL/SQL)"	24-Feb-2022 & 25-Feb-2022	Regional Training Institute (RTI), Jaipur

STTP/FDP/other Training Attended by Faculty

S. N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
1	Dilipkumar A. Borikar	STTP on Outcome Based Assessment (OBA)	31-01-2022 to 04-02-2023	NITTTR Bhopal
2	Dilipkumar A. Borikar	FDP on Intellectual Property Rights (IPR)	07-03-2022 to 12-03-2023	MKSSS's Cummins COEW, Nagpur in Assocition with NIPAM, India
3	Neha Jitesh Zade	One week online FDP on Deep Learning Using Tensorflow and Keras	28-02-2022 to 5-03-2022	G.H.R.I.E.T Nagpur in association with E & ICT academy, IIT Kanpur
4	Neha Jitesh Zade	STTP on Data Science with Statistical Methods using python	17-01-2022 to 21-01-2022	G. H. R. C. E, Nagpur
5	Neha Tirpude	6-Day Short Term Course on Components of the Research Process in Engineering	20-02-2022 to 25-02-2022	IIIT Nagpur, sponsored by AICTE
6	Wani H. Bisen	5 -Day Short Term Training Programme on Machine Learning with Python	21-02-2022 to 25-02-2022	NITTTR, Kolkata
7	Dr. Shubhangi Neware	FDP on Artificial Intelligence and Blockchain Application for Food Agriculture Sector	24-01-2022 to 28-01-2022	Indian Institute of Plantation Management Bengaluru, (ATAL Academy)
8	Shwetal Raipure	STTP on"Data Science with Statastical Methods using Python(DSSMP 2022)	17-01-2022 to 21-01-2022	G. H. R. C. E, Nagpur
9	Sweta Jain	FDP on Outcome Based Education(OBE)	31-01-2022 to 04-02-2022	NITTTR, Bhopal

| S. N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
10	Rashmi Welekar	FDP on Outcome Based Education(OBE)	31-01-2022 to 04-02-2022	NITTTR, Bhopal
11	Snehal Awachat	STTP on Data Science with Statistical Methods using python	17-01-2022 to 21-01-2022	G. H. R. C. E, Nagpur
12	V. Rathod	FDP on Artificial Intelligence and Blockchain Application for Food Agriculture Sector	24-01-2022 to 28-01-2022	Indian Institute of Plantation Management Bengaluru, (Atal Academy)
13	V. Rathod	FDP on Outcome Based Education	11-01-2022 to 15-01-2022	AICTE, VES Mumbai
14	K. Khurana	FDP on Artificial Intelligence and Blockchain Application for Food Agriculture Sector	24-01-2022 to 28-01-2022	Indian Institute of Plantation Management Bengaluru, (Atal Academy)
15	K. Khurana	FDP on Outcome Based Education	11-01-2022 to 15-01-2022	AICTE, VES Mumbai
16	S. Hira	FDP on Artificial Intelligence and Blockchain Application for Food Agriculture Sector	24-01-2022 to 28-01-2022	Indian Institute of Plantation Management Bengaluru, (Atal Academy)
17	S. Hira	FDP on Outcome Based Education	11-01-2022 to 15-01-2022	AICTE, VES Mumbai
18	S. Rawat	FDP on Outcome Based Education	11-01-2022 to 15-01-2022	AICTE, VES Mumbai
19	Neha Tirpude	FDP on Outcome Based Education	31-01-2022 to 04-02-2022	NITTTR, Bhopal
20	Dr. Shubhangi Neware	FDP on Outcome Based Education	31-01-2022 to 04-02-2022	NITTTR, Bhopal
21	K. Kalyani	FDP on Outcome Based Education	31-01-2022 to 04-02-2022	NITTTR, Bhopal
22	R. Damdoo	FDP on Outcome Based Education	31-01-2022 to 04-02-2022	NITTTR, Bhopal
23	Dilipkumar A. Borikar	FDP on Outcome Based Assessment (OBA)	31-01-2022 to 04-02-2023	NITTTR, Bhopal

Reflection
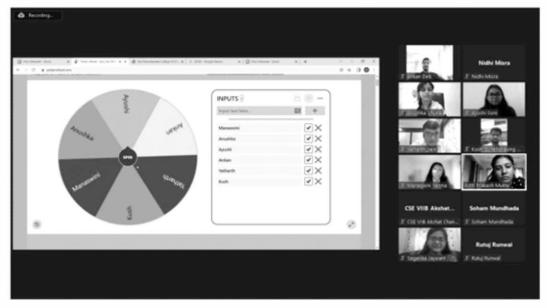
Departmental Activities
Manzar 2022

Compusys, the student body of Department of Computer Science and Engineering, Shri Ramdeobaba College of Engineering and Management, organized MANZAR 2022, the annual cultural event of the Department of Computer Science and Engineering was organised virtually to welcome the second year students in the department. Manzar comprises various extracurricular and cultural competitions which were scheduled in the first week of January 2022. The final event took place on 8th January, 2022 (Saturday). The students participated with great zeal to make the event successful.

Eminence

Event Eminence was conducted under Manzar-2022 from 4th Jan to 8th Jan. It intended to crown the students with the best personalities from the CSE department (all 5 sections combined). The event tested the overall personality, decision-making, talents, convincing power, and intelligence of the participants. The first round was a quiz, followed by the personal interview round and the final round of Eminence was conducted in the Finale on 8th January 2022. A total of 60 participants registered for the 1st round, while 23 participants qualified for the personal interview round and finally 6 made their way to the Finale. Yatharth Jain and Ayushi Soni were declared as winners for Mr .Eminence and Ms. Eminence.

The finalists of Eminence introducing themselves

Wolf of Wall Street

This event was based on testing the marketing skills and mindfulness of the participants. The participants were given different objects and they were required to prepare a video that would be an advertisement of the object telling the advantages, the unique selling point of the object. Some examples of the objects were burst firecrackers, banana peel, chocolate wrapper, etc. The participants were given approximately 3 days for the preparation of the video. 44 students participated with their revolutionary ideas and Aaron Rocque, Aarya Mujumdar, Pranjali Joshi and Kunwar Jora bagged the first position. Syed Faraz Hasan, Tilottama Bhutada,

Mohammad Faysal Khan and Manaswini Verma bagged the second position. Janak Deepak Mandavgade, Bhushan Liladhar Wanjari, Darshan Bhojrajan Chandan and Yash Surendra Tekade bagged the third position.

Singing and Dance

A singing and dancing competition was also conducted as a part of cultural events in Manzar. The dance videos of participants were collected through a Google form. There were two types of participation for this event: Solo and Group (duet included). All the dance forms were allowed in this event and also the song selection was as per the participant's choice. The declaration of winners was done on the final day of Manzar where the prize distribution ceremony was held after the final round of Eminence. The top 3 winners for both solo and group were separately declared among all the participants of the event. Aantorika Sur being the winner, Aditi Tiwari, the 1 st runner-up and Anushka Khandelwal the 2nd runner-up for dance solo event, whereas for dance group event the members of winner group were Anjali Kushwaha, Anvi Burde, Janhavi Katre, Mrunal Lad, Riya Shivhare, Rupesh Arora, Shruti Fadnavis, Siddhesh Jawadi, Tanish Agrawal, Vanshita Lalwani, and Vishakha Sharma, the members of 1st runner-up group were Aantorika Sur and Kanak Jaiswal and the 2nd runner-up group members were Akshita Deshmukh and Janhavi Katre. The winners of the Singing competition were announced in the final round of Eminence and prize distribution ceremony of MANZAR'22. The top 3 winners were declared among all the participants of the event. Samiksha Anasane bagged the 1st position, Ayush Zode, the 2nd winner and Yash Sharma bagged the 3rd position in this singing competition. A total participation of around 200 participants was witnessed in this year's MANZAR event.

Monologue

In this event participants had to record their monologue videos, of duration less than 5 minutes. Performances were judged by the Committee on following criteria: acting, script, characterization, stage utilization, adherence to time limits and the code of conduct norms, and overall clarity and impact. Ms. Narayani Singh from Cyber Security won the Monologue competition.

Graphic Designing

Graphic Designing was conducted from 2nd January 2022 to 7th January 2022. Students were given three concepts (topics) and were encouraged to use their graphic designing skills to create their artwork. This event was subdivided into two types of Graphic Designing i.e. Static Designing and Motion Designing. The entries from students for this event were recorded through Google Forms. Ms. Pratiksha Ekbote won the Static designing category and Rahul Ahuja won the Motion Designing Category.

The winning entries of the Graphic designing event
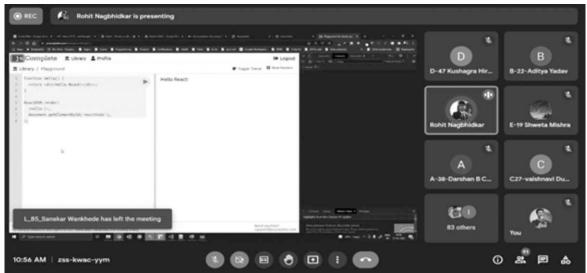
Reflection

Polaris 2022

POLARIS-2K22, a national level technical symposium – was organized by the Computer Science and Engineering Department of Shri Ramdeobaba College of Engineering and Management (RCOEM), Nagpur on 27th January, 2022. The event was inaugurated by the Chief Guest, Mr. Sovan Panda, Ex-CEO, Executive Leadership Coach, Institute of Product Leadership, Bengaluru in the presence of Dr. A. J. Agrawal, Head CSE, Dr. M. B. Chandak, Dean Academics, RCOEM, and all faculty and students of CSE department. The faculty in-charge for the event was Prof. Vasundhara Rathod, and committee consisting of Prof. Heena Agrawal, Prof. NehaTirpude and Prof. M. Motghare.

The event is organized every academic year, continuing the tradition of the Computer Science and Engineering department to encourage the students towards co-curricular activities and provide a platform to showcase their technical skills. It is a national level inter-college technical fest for aspirants from various engineering colleges with very high competitive spirit and with the strong determination to add to their achievements & accomplishments.
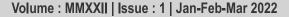
This year the events in Polaris-2K22 were technical workshops and events like coding competition, project exhibition, treasure hunt and a 2-days long application building competition.

Workshop on building portfolio website using react JS

The workshop was organized by Code Chef RCOEM Chapter under the event Polaris 2022 on 27th January 2022 from 10 AM to 3 PM. The event coordination was looked after by Prof. Vasundhara Rathod. The main objective of the event was to help the students create a portfolio website to improve their CV/Resume and to learn the rapidly growing framework REACT. There were 95 students from different colleges of India who enrolled and attended the session. The resource person for the workshop was Mr. Rohit Nagbhidkar, Lead Software Engineer at Aegon Life. The students who attended the workshop had very positive feedback and appreciated the method of teaching and content provided during the workshop. The students built and deployed their portfolio websites after the workshop using React and showcased it over LinkedIn thanking the speaker and Code Chef RCOEM Chapter.

Mr. Rohit Nagbhidkar delivering the workshop on Building and deploying portfolio website using ReactJS

Algorithm Unlock

The ACM chapter conducted Algorithm Unlock which was a coding contest held on 27th January 2022 from 12:00 pm to 2:00 pm under Polaris 2022, event in charge being Prof. Devishree Naidu. It consisted of questions related to competitive programming. It was conducted on Hackerrank. This contest was conducted to test the logical thinking of the candidates. 7 questions were divided in three sections namely easy, medium and hard. The candidates have to write the code in any programming language they are comfortable with. Siddhant Sandeep Jain from Shri Ramdeobaba College of Engineering and Management bagged the first position. Prathamesh Rajendra Rajbhoj from Shri Ramdeobaba College of Engineering and Management bagged the second position.

The competition hosted on HackerRank

Crack-o-Ween

The event was conducted under Polaris, organised by Intel Student Developer Club and held from 23rd January to 25th January 2022. Prof. Praful Pardhi coordinated the event. It was a 2-level competition (Hackathon). Stage 1 required the participants to solve a puzzle based on basic aptitude, coding and other facts and decrypt the password to the zip folder containing the problem Statement. Participants who could not crack the password were eliminated. The second stage required the competitors to build an application or website based on the allotted problem Statement. The evaluation was conducted virtually over Google meet where each team or individual participant demonstrated their work in front of the judges.Utkarsh Singh from Shri Ramdeobaba College of Engineering and Management was the winner. Bhushan Wanjari, Prathamesh Rajbhoj,Rohit Bhojwani,Akshat Surana from Shri Ramdeobaba College of Engineering and Management were the 1st Runner Up whereas Harsheet Chordiya, Pratiksha Ekbote and Kartik Gamot from Shri Ramdeobaba College of Engineering and Management were the 2nd Runner Up.

Code and Win

The Computer Society of India (CSI), RCOEM Student chapter organized the event Code and Win, Project competition under POLARIS on 27th January, 2022 to provide students an opportunity to present and showcase their ideas, innovations and programming skills. Participants were required to make a team of 2-5 members. Various teams from different colleges and branches registered for the event. Mrunal Paunikar,

Pushkar Kamble, Purva Jawanjal, Pranay Shende, Nishant Bongade from SVPCET bagged the first position.Amit Mondal, Arkaj Tiwari from Shri Ramdeobaba College of Engineering and Management bagged the second position. Faculty In-charge for CSI chapter was Prof. Shweta Jain.

The Project competition conducted by CSI chapter

The Marvellous Hunt

The Marvellous Hunt, was held on 27th January, 2:00 PM to 4:00 PM, an online treasure hunt. The event was conducted under POLARIS-2022. It consisted of solving unique combinations of riddles, crosswords, social media tasks, coding activities and much more by the participating teams. A total of 185 teams (450 students) from about 32 colleges across the nation participated in the event. All the questions to acquire the treasure were technical questions leading to questions for the next level. Chirag Lalwani, Anmol Mishra, Anushka Khandelwal from Shri Ramdeobaba College of Engineering and Management bagged the first position.Himesh Ganwani, Aditya Bopche, Devesh Wadhwani from Shri Ramdeobaba College of Engineering and Management bagged the second position and Akshat Surana, Khushi Shroff, Harsha Hargunani from Shri Ramdeobaba College of Engineering and Management bagged the third position. Faculty In-charge for Google DSC is Prof. Khushboo Khurana.

Reflection

HACKATH ON for SIH 2022 at RCOEM, Nagpur

Smart India Hackathon 2022 (SIH 2022) is the fifth edition of the World's Largest Open Innovation Model. It brings together the central government organization, various state departments, NGOs and industry to propose the problems. The students from technical institutions across the nation participate in the national extravaganza by submitting their ideas as a prospective solution to these problems.

The Computer Science and Engineering Department of Shri Ramdeobaba College of Engineering and Management, Nagpur (RCOEM) conducted an Internal Hackathon on March 24th , 2022 [Thursday] for nominating the teams for Smart India Hackathon 2022 [SIH-2022]. Dr. Rajesh Pande, Principal was the Nodal Centre Coordinator for Smart India Hackathon. Dr. Avinash J. Agrawal, HOD CSE was Coordinator for the Internal Hackathon and Prof. Dilipkumar Borikar, Assistant Professor, CSE was the SPOC for SIH-2022. Internal Hackathon was an open-house event to select the best 15 teams of students from the engineering and technology streams of RCOEM for finalizing 10 teams under "shortlisted" and 05 teams under "waitlisted" category.
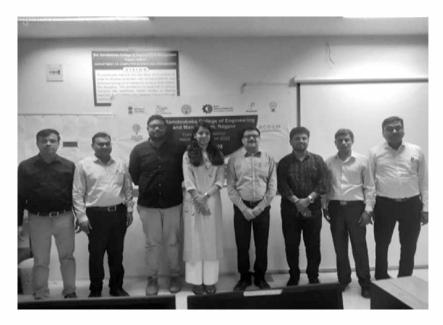
In all 35 student teams were registered who proposed their solution idea for 49 different problem statements. Over 200 students comprising 67 female students participated for the evaluation. All registered teams for the Internal Hackathon went through a 2-Stage process of evaluation. Stage-1, (Judgment Round-1) was conducted to identify the best 20 ideas. In Stage-2 (Judgment Round-2) the Round-1 entries were evaluated to nominate the 15 teams for SIH-2022. The jury panels were composed of industry experts from reputed software majors, namely - Persistent Systems Pvt. Ltd., Infocepts Ltd., HCL Technologies, Salesforce, SG Analytics, Tech Mahindra and SSG Embedded Solutions were invited to evaluate the idea submissions.

All the finalized teams were registered on the SIH portal. Of the 10 shortlisted teams, 02 teams were for the "Hardware" domain, whereas all 05 waitlisted teams were for the "Software" domain. The Grand Finale of SIH 2022 is tentatively scheduled in the second/third week of July 2022.

Students from various teams participating for Judgement Round-2 for Software Problems

**Judges for Round-2: (From Left to Right) S. S. Aote, P. R.Pardhi,
Mr. Swapnil Sontake (Judge) Ms. Nikita Tibdiwwal (Judge), Dr. A. J. Agrawal (Coordinator),
Mr. Pranjal Dani (Judge), D. A. Borikar (SPoC), A. R. Raipurkar.**

**Felicitation of Judges: Dr. A. J. Agrawal felicitating the Judge,
Mr. Ajay Lohkare, Persistent Systems (on the left).**

Android Study Jam by Google DSC

The Android Study Jam programme was organized by the Google DSC Club. It provided a platform for group learning for the students. It provided learning to build Android apps in the Kotlin programming language, using the curriculum provided by Google.

The main objective of the event was to learn, practice, and develop real-world mobile applications using concepts like Live Data, View Model, Data Binding, Room Database, etc. The program has a course Android Basics in Kotlin compiled by Industry Experts from Google, which consists of 6 units and 16 pathways where you will learn the topics related to android development using self-paced labs including quizzes at the end to test your learning on the particular topic. 4 Live sessions of duration 90 mins each were taken by the event facilitator to help students understand the topics mentioned in the course.

The national level programme was organized in four phases starting from 29 November 2021 to 4 Jan 2022, followed by intra-college app building competition. A total of 162 Students participated in the programme including 61 students from RCOEM. Suraj Vasudeo Verma (Event Facilitator), Tejas Sudhir Tapas (GDSC Lead) and the entire GDSC team worked hard to organize the online event.
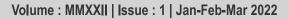
Conference, STTP and Guest Lectures organized in Department

S.No.	Guest Lecture Organised	Speaker (with Affiliation)	Duration	Date
1	MultiScale Methods for Spatial Data Analysis	Jaya Nair, Associate Professor, IIIT Bangalore	1:30 Hour	01/09/2021
2	Rest API design and Implementation	Mr. Gaurav Bhorkar, Lead Developer at Ericsson, Finland.	1 Hour	29/01/2022
3	Career Opportunities in Cyber Security	Mr. Mayur Pathak, Leader, Cyber Security Solutions Sales, India South Asia	1:30 Hour	10/01/2022
4	Role of Data Scientist at Microsoft	Anant Agrawal, Data Scientist, Microsoft	1 Hour	16/01/2022
5	Emerging Opportunities in Data Science	Dr. Avisek Lahiri, research Software Engineer, Google	1 Hour	21/01/2022
6	Quality Assurance in Large Implementations and Startups	Mr. Anindya Singh Obi, Founder, NIITI	1 Hour	11/02/2022

Students' Corner

Toppers List (Combined list of two shifts)

Sr. No.	V Semester	VII Semester
1	Romil Prashant Mahajan (10.00)	Rishabh Parmanand Rathi(10.00)
2	Nidhi Misra (10.00)	Atul Ratnakar Thakre(9.96)
3	Sandesh Thakurdas Sachdev (9.99)	Monica Mukeshkumar Dholwani(9.95)

Student Achievements
Summary (Sports/ Co-curricular)

Sr. No.	Name of Student	Semester	Event	Achievement	Date
1	Raman Narendra Khatod	III Sem (S-I) CSE	Debate Competition Organised by JCI Nagpur Central on the occasion National Youth Day	Winner (1st position)	15/01/2022
2	Narayani Singh	III Sem (Cyber Security)	Inter Collegiate Debate Competition, Ushaben College, Lakdganj	3rd Position, Rs. 500/-	13/01/2022
3	Tarrun Jaiswal	VI Sem (Shift-2)	Competition: National War Memorial And My Govt	Winner (1st position)	1/3/2022 to 6/3/2022
4	Darshan Jawandhiya	VI SEM CSE, Shift-1	Lokmat Mahamarathon 2022	Ranked 71	27/3/2022

Summary (Technical)

- Abbas Husain (VIII Semester, Shift 1) received AIR 2075 in Gate-2022 Exam.
- Snehal Nirajkumar Mopkar (VI Semester, Shift 2) secured rank 7720 (score 73) in National Engineering Olympiad 5.0 conducted on 22/12/2022

Sr. No.	Name of Student	Semester	Event	Achievement	Date
1	Chirag Pradeep Lalwani	III Sem (Data Science)	Competition: Codechef January long 2022 -II Division 3	Global rank 8	14/1/2022 to 17/1/2022

Hackathon Winners

1. **Winners of Hack The Game [Event at Technical festival CEPHE-2022, IIT Goa]**

Team of two- Madhav Jha (III Semester CSE AIML) and Anjali Kushwaha (III Semester CSE Data Science) won the 1st position in the event Hack The Game, organized by IIT Goa during the Annual technical fest CEPHE-2022 held in January 2022. Goal of the event was to learn and use OpenCV python library and demonstrate in the hackathon. Aim of the Hackathon was to take any game of choice and use OpenCV as primary library and any other required to "hack" as in to achieve a great score that would be not possible via manual human gameplay. The team (thisDot) hacked the game atari breakout by google and achieved a high score of 2444.
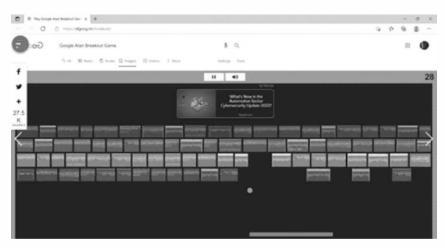
Anjali Khushwaha

MadhavJha

Snapshot of the game developed (available on the link: https://elgoog.im/breakout)

Certifications

1. Microsoft Certification

Raghav Sanjay Maheshwari of VIII SEM CSE (Shift-1) completed Microsoft Certified Azure AI Fundamentals certification on 10th March 2022.

Raghav Maheshwari

Coding Competition Accomplishments

● Hevesh Lakhwani, Sujal Agrawal, Yash Patel, and Yash Thakre [all from VI Semester] secured 1st Rank in Nagpur, All India Rank 47 and World Rank 443 in Hash Code 2022, Google's Coding Competition as a team participation.

● Sujal Agrawal, Hevesh Lakhwani, Yash Thakre, Yash Patel [all from VI Semester], secured a Global Rank of 216 in Reply code challenge-2022 as a team participation.

● Henay Lakhwani, Om Jodhpurkar, and Antara Andulkar are 3rd in shortlisted top ten participants for the Website Design Competition organized by Bureau of Police Research and Developement in March 2022.

● Saurabh Sheshrao Khandagale of VIII Sem CSE (Shift-2) scored 761/1000 in Relevel by Unacademy as a Backend Developer.

DEPARTMENT OF ELECTRICAL ENGINEERING

Faculty Corner
Publications

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
1	Alok Ranjan, Dr. Sanjay Bodkhe	Energy Management Strategy for Hybrid Energy Storage Systems in Electric Vehicle –A Review	International Journal of Electrical and Electronics Engineering & Tele-communications	March 2022	2319-2518	10.18178/ IJEETC. 11.2.88-101, Vol 11, No 02	Scopus
2	Dr. Prachi Salodkar, Shraddha Meshram, Shouvik Dey	Review of Hydrogen Fuel Cell as an emergent field in green technology	International Conference on Power, Control and computing technologies ICPC2T	1st March to 3rd March 2022	--	--	Conference
3	Shraddha Meshram, Shouvik Dey, Dr. Prachi Salodkar	Simulation of static PEM fuel cell Model to Aggrandize use of Renewable Energy	International Conference on Innovation in Engineering, Science and Management (ICIESM-2022)	28th Feb. 2022 to 1st March 2022	--	--	Conference
4	Gunwanti Shende, Dr. Sonali Rangari, Prof. Manisha Gaikwad	Modelling of Five Phase BLDC Motor in D-Q Reference Frame with PID Controller	International Conference on Innovation in Engineering, Science and Management (ICIESM-2022)	28th Feb. 2022 to 1st March 2022	--	--	Conference

STTP/FDP/Other Training Attended by Faculty

S. N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
1	Prof. (Ms.) M. B. Gaikwad	ATAL FDP on "Electric Charging Station for Vehicles"	21/02/2022 to 25/02/2022	Government Engineering College, Trissur
2	Dr. G. N. Goyal	One week STTP on "Outcome Based Assessment"	31/01/2022 - 04/02/2022	NITTTR Bhopal

Research Grants Received by Faculty

S. N.	Name of Principal Investigator, Co- Investigator and Research Scholar	Project Title	Funding Agency	Total Sanctioned Amount (Rs)
1	Dr. S. B. Bodkhe Dr. G. N. Goyal Alok Ranjan	Investigation, development and verification of energy management strategies for hybrid energy storage system in an electric vehicle drive.	AICTE-Research Promotion Scheme (RPS)	25.00 lakhs
2	Dr. M. V. Palandurkar Dr. V. A. Huchche	Design of PV System Integrated with Grid Tied Inverter for Indian Grid and Operating Environmental Condition	RGSTC-RTMNU	2.0 lakhs

Departmental Activities
Industrial Visit:

Visit to Khaparkheda thermal Power Station

Students of B.E.(EE) Sem-VI along with faculty members visited Khaparkeda Thermal Power plant on 24th March 2022. This visit was conducted to support the theoretical knowledge gained by the students through the course 'Power Station Practice' which is being studied by them as a part of curriculum. During this visit, the students got exposure to Coal Handling Plant, Water Treatment Plant, Cooling tower, Condensers, Electrostatic Precipitators (ESP), Pulverizing Mills, Air Preheaters, Furnaces and ID & FD fans, Boiler and Boiler accessories, Turbine and Turbine Accessories, Generator and Generator accessories, Unit Transformer and Station Transformer with their cooling systems, Water Treatment Plant and the Main Control Station. Students also witnessed the robust built of the chimney and the ash handling plant.

The visit was organized by Prof. R. G. Deshbratar and was accompanied by Dr. S. D. Naik, Dr. Manjusha Palandurkar and Prof. Manisha Gaikwad. Around 60 students joined the same. The Chief Engineer of KTPS, Shri Raju Ghuge and other officers Shri Dahane and Shri Shinde extended theircooperation to make the visit very informative to the students.

Glimpses of visit to Khaparkheda Thermal Power Station

Parent-Teacher Meet and Events

Event 1: QRIOSITY 1.0, A NATIONAL LEVEL BUSSINESS QUIZ

The Department of Electrical Engineering, RCOEM organized a novel National Level Business Quiz "QRIOSITY 1.0" under the aegis of Electrical Engineering Students' Association (EESA) on 14th February 2022. Total 516 participants registered for the event and the participation was from institutes including IIMs, IITs, NITs and reputed universities. The registrations were started from 27thDecember, 2021 on Dare2Compete platform. The event was sponsored by "The Beautiful Mind Clinic".

The preliminary round took place on 7thand 8th of February 2022.Eleven participants qualified directly to the semi-final round. A wildcard round was conducted through Google Meet on 9thFebruary 2022 of which top 3 moved to the semifinals. The semifinals and finals took place on 14thFebruary 2022 on Google Meet platform. Both the rounds were streamed live on the EESA RCOEM YouTubechannel (https://www.youtube.com/channel/UCQ52Nnm6QUvCll50TO6zn7Q). The top 3 winners were declared and were felicitated by Dr. S.B Bodkhe, Head of Department. The winners were PratyushGoyal (IIM Bangalore), Lucky Kaul (IIM Ahmedabad) and Zaman Khan (University of Hyderabad). The student coordinators for the event were Ms. Sharddha Meshram and Mr. Shovik Dey (Final Year Students). With the hard work and coordination of all the 24 volunteers, the event was successfully conducted. Dr. G.N.Goyal was the faculty coordinator for the event.

Team of QRIOSITY 1.0 with Faculty Coordinator and HoD(EE)

Event 2: Electrical Premiere League (EPL-2022)

The Department of Electrical Engineering organized a cricket tournament, "Electrical Premiere League (EPL-2022)" under Electrical Engineering Students' Association (EESA) on 26th and 27th March 2022. Total 11 teamswere formed through auction process. Each team consisted of8 male and 3 female players.Total of 11 matches were conducted, (8 league matches and 3 knock-out matches). EPL was conducted on the Legends Turf.

The event was conducted to develop the team spirit amongst the students and all the students participated with great enthusiasm as a participant as well as audience. The prize distribution ceremony of EPL was held on 7th

of April 2022.Different awards instituted were, (1) Player of the Matchawards,(2) Player of the tournament awards and (3) Trophy for the winning team. The medals and trophy weredistributed by the hands of HoD(EE)Dr.S.B.Bodkhe and Prof.J.S.Joshi. The event was organized by Divyanshu Chadda, Ujwal Jibhkate (of Final Year B.E.), Ms. Tanu Gupta, Saurabh Sawarkar, Vedanta Ajane, Saurabh Patel (of III Year B.E.) and Rohan Kukreja of II-Year B.E. The Faculty Coordinator for the event was Dr.G.N.Goyal. The awardees are:

EPL - 2022 Winning Team : **POWER HITTERS**		
Sarveshwari Umre, Amey Thakur, Atharv Ghodki, Bhushan Lande, Ishan Gurao, Saurabh Sawarkar, Shruti Wankhede, Tanya Jaiswal, Vedant Fendar, Vedant Ajane		
1	**Player of the Tournament (Man)**	Malhar Dani, (III-Year)
2	**Player of the Tournament (Woman)**	Snehal Dubey (II-Year)

Sr. No.	Matches	Player of the Match
1	Resistive Renegades Vs Power Hitters	Vedanti Kapse
2	Royal Circuit Breakers Vs Capacitive Conquerors	Aryan Gangapari
3	Thevenin Thalaivas Vs Tesla Hurricanes	Anurag Jambhulkar
4	Capacitive Conquerors Vs Resistive Renegades	Malhar Dani
5	Power Hitters Vs Royal Circuit Breakers	Saurabh Sawarkar
6	Sigma 11 Vs Earthing Eagles	Vallabh Acharya
7	Earthing Eagles Vs Thevenin Thalaivas	Anurag Dahiwale
8	Tesla Hurricanes Vs Sigma 11	Vinit Yadav
9	Power Hitters Vs Thevenin Thalaivas (Semi Final 1)	Atharv Ghodki
10	Resistive Renegades Vs Sigma 11 (Semi Final 2)	Ranjeet Singh Yadav
11	Power Hitters Vs Resistive Renegades (Final)	Vedant Ajane

Reflection

Glimpses of Electrical Premiere League (EPL-2022)

Parent-Teacher Meet

TwoOnline Parent-teacher meetings were organized during the session 2021-22 in the department. First one was on 22nd January 2022 (Saturday) at 11.00 am for III semester and the second one on 5th March 2022 (Saturday) at 11.00 am for the parents and students of VI semester on Google Meet. Total 42 parents along with their wards attended the meet on 22nd January 2022 and16 parents and students attended the meet on 5th March 2022.Parent-Teacher Meet coordinator Dr. V.A. Huchche welcomed all and started the meeting with vision/ mission and learning outcomes of B.E. (Electrical Engineering). The performance of III semester students in terms of marks scored in Unit Test-1 and Teacher's Assessments were presented by class teacher Prof. M. B. Gaikwad. Dr. V. A. Huchche presented VI semester student's class test-1 and TA marks to the parents and students. The queries of the parents regarding six monthly internship, minor and honor scheme and placement, were answered by concerned professor-in charges.

Glimpses of the parent teacher meeting

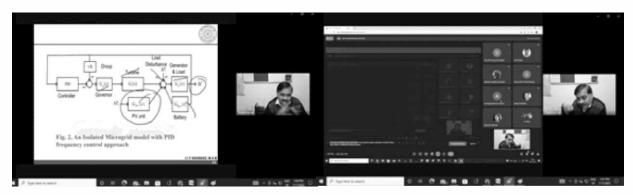## Conference, STTP and Guest Lectures organized in Department

S. No.	Conference/STTP/ Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Guest Lecture on Stability Analysis of drive systems consisting of motor, converters and sources	Dr. Yogesh Hote, Professor of Electrical Engineering, IIT Roorkee	Two Hours	08/01/2022
2	Guest Lecture on Interview & Interpersonal Skills Training	Mr. Hitesh Dewani, Director HR Mentors	Two Hours	06/01/2022
3	Live Session on "Introduction to Anapana Meditation"	विपश्यनाविधोधनविन्यास (Team of Vipassana Research Institute) https://www.vridhamma.org/ Children-Courses	One and Half Hours	24/01/2022
4	Career Defining Session on "Career Options After Engineering"	Mr. Sachin Mankawade, Director, Engineers Academy	Two Hours	18/02/2022
5	Session on Placement Readiness for Pre-Final Year students	Final Year Students	Two Hours	05/03/2022
6	Guest Lecture on 'All About CAT'	Mr. Ashish Gaidhane, Callibers Nova	Two Hours	11/03/2022
7	Guest Lecture on "Power System Deregulation and Electricity Markets"	Dr.N.D. Ghawghawe, Professor& Head (EE), Govt. College of Engineering, Nagpur	Two Hours	17/03/2022
7	Guest Lecture on "Power System Deregulation and Electricity Markets"	Dr.N.D. Ghawghawe, Professor& Head (EE), Govt. College of Engineering, Nagpur	Two Hours	17/03/2022

1. Guest Lecture on "Stability Analysis of drive systems consisting of motor, converters and sources"

A Guest Lecture (online) on "Stability Analysis of drive systems consisting of motor, converters and sources" was organized on Saturday, 8th January 2022.Dr. Yogesh Hote, Professor of Electrical Engineering, IIT Roorkee was the guest speaker. He covered various specialized topics like formulation of control problem, automatic generation and voltage control, plant control without feedback and with feedback etc.

The guest lecture was arranged for Ph. D. Scholars, M. Tech (PEPS) students, B. E. (EE) VIII-Sem students and faculty. More than 30 students were benefitted. The guest lecture was organized by Prof. M. B. Gaikwad.

Speaker Dr. Yogesh Hote in online session

2. Guest Lecture on "Interview & Inter Personal Skills Training"

A Guest Lecture on "Interview &Inter Personal Skills Training" was organized for the students for placement. The session was conducted by Mr. Hitesh Dewani, Director HR Mentors on 6th Jan 2022 under Electrical Engineering Students Association (EESA). The event witnessed the participation from students of BE Third Year, BE Final Year of Electrical Engineering and M.Tech II Year of PEPS. In this lecture, audience got an insight of different areas for improvement before interviews for placement. About 80 students attended the lecture and understood the Do's and Don't's while appearing for the interview. The faculty coordinator for the event were Dr. S. C. Ranagri and Dr. Gaurav Goyal.

3. Live session of "Introduction to Anapana Meditation"

The Department of Electrical Engineering and Vipassana Research Institute (VRI) jointly organised online live sessions on "Introduction to Anapana Meditation" for the III semester students on Monday 24th Jan 2022 from 10.30am to 11.30 am. The session was conducted by the teachers of VRI under MITRA Upakram (Mind in Training for Right Awareness) of Govt. of Maharashtra.

Anapanais a meditation technique based on carefully observing the inhale and exhale of breathing.It is an easy to learn scientific method that helps in improving concentration of the mind. Observation of the breath is an ideal object for meditation because it is always available and it is completely non-sectarian.

Follow-up 10 minute sessions of Anapana were also conducted over a week for the same students to learn the technique effectively by Dr. S. C. Rangari of EE department, RCOEM who herself is also the Anapana Teacher (CCT). Total 58 students were benefitted.

Online AnapanaSession on ZOOM aap

4. Career Defining Session On "Career Options After Engineering"

A career defining session on "Career Options After Engineering"was organized for the pre-final year students of the department on 18th February 2022. Mr. Sachin Mankawade, Director, Engineers Academy Nagpur was the guest speaker. In this lecture, audience got an insight of various career options available for Electrical Engineering graduates with the complete details like procedure of selection, pay scale etc. The speaker highlighted about various competitive examinations like GATE, IES, Railway etc. Total 62 students attended the session. The faculty coordinator for the event was Dr. Gaurav Goyal.

Speaker Mr. Sachin Mankawade with Students

5. Seminar on"Placement Preparedness"

A interactive session on "Placement Preparedness"was conducted by the students of B.E.(EE) final year (who secured job placements) for the students of BE 3rd year and M.Tech 1st Year on 5th of March2022 under the aegis of Electrical Engineering Students' Association (EESA). The objective of this session was to make the students aware about various aspects of placement activities and the companies visiting ourcollege campus. The placed students from final year were invited to talk on topics like aptitude preparation, technical and HR interview etc. Following students from final delivered their inputs during the session:

1) Mr. Swapnil Paunikar (Placed in Persistent Global Systems)

2) Mr. AyushChakole (Placed in Cognizant)

3) Mr. Dhananjay Milmile (Placed in Eaton)

4) Mr. Atharva Bhalerao (Placed in Siemens)

The seminar was organized by Mr. DivyanshuChadda (EESA President) and Ms. Shraddha Meshram(EESA-Secretary) with other EESA committee members. The faculty coordinators for the event was Dr.G.N.Goyal.

Final Year Students delivering during the session

1. Guest Lecture on "All About Cat"

An informative guest lecture on "All about CAT" was organized for the students who aspire to make their career in managementon 11th March 2022. Mr.AshishGaidhane, Gold Medallist from VNIT and currently,

Trainer at Calibers Nova was the guest speaker. The students were informed various aspects of CAT like, preparation, cut-offs of various colleges career prospects etc. About 40 students from third year B.E. (EE) attended the lecture. The faculty coordinator for the event was Dr.GauravGoyal.

Speaker in Guest Lecture "All About CAT"

1. "Power System Deregulation and Electricity Markets"

A guest lecture on"Power System Deregulation and Electricity Markets" was organized B.E.(EE) III-Year students on 17th March 2022. The guest speaker was Dr. N. D. Ghawghawe, Professor and Head, Govt. College of Engineering, Nagpur. Professor Ghawghawe explained in detail the deregulation of power system and it benefits in Indian scenario. He also explained various market models that exist in deregulated power system. About 60 students attended the lecture with active involvement. The faculty coordinator for the guest lecture was Dr. S. D. Naik.

Students' Corner
Toppers List of B.Tech.(EE) Sem-III

Sr. No	Second Year student	SGPA	CGPA
1	Vallabh Pravin Acharya	10	10
2	Atharva Sandip Joshi	9.95	9.45
3	Ashi Vinit Bajpai	9.18	9.25
4	Ayush Chandrakant Virutkar	9.59	9.12
5	Gayatri Suresh Dongre	9.14	9.12

Student Achievements

Sr. No.	Name of Student	Event	Achievement	Date
1	Shouvik Day	GENESIS 2022, Birla Institute of Technology, Mesra	2nd Position in BitTech Quiz	Jan, 2022
2	Shouvik Day	Finance Club Event, Birla Institute of Technology, Mesra	3rd Position	Feb, 2022
3	Ritesh Jaiswal	IEEE Int. Conf. ICCICA 2021	Presented his research paper 'Smart data transfer for data monetization'	November 2021
4	Shraddha Meshram, Vikram Rewatkar, Gauri Mujumdar	Smart India Hackathon 2022	Finalizedto represent the college at National level with their hardware solution "Smart networks for renewable integrated sources for standalone microgrids" for the research problem provided by Dept. of Science & Technology, MoST, Govt. of India	March 2022

Sr. No.	Name of Student	Event	Achievement	Date
5	Ujwal Jibhkate, Siddhi Chawhan, Aniket Lanjewar, Sahil Singh, Atharva Shrivas, Vedant Ajane	Smart India Hackathon 2022	Waitlisted to represent the college at National level with their software solution "Cost of air pollution to solar power generation" for the research problem provided by Indian National Centre for Ocean Information Services, MoES, Govt. of India.	Feb, 2022

Students for Higher Studies

Following students of B. E. (EE) Final Year are planning for higher studies and have qualified the respective competitive examinations:

Sr. No.	Name of Student	Competitive Examination
1	Shraddha Jain	CAT 2021
2	Shantanu Chindhalore	CAT 2021
3	Devesh Singh	CAT 2021
4	Apurva Waghmare	GATE 2022
5	Mandar Mohite	IELTS 2022

Installation of New Team of Office Bearers of EESA

The new team of office bearers of 'Electrical Engineering Students' Association' was installed on 11thApril 2022 by the hands of Dr. S. B. Bodkhe HOD (EE), Prof. J. S. Joshi and Dr. G. N. Goyal, EESA Advisor. The event was followed by the prize distribution ceremony of EPL 2022. EESA is currently celebrating the silver jubilee year and its activities are organized with an objective to provide a platform to the students to develop their leadership skills, organizational skills, managerial skills, literary/music/research and other talents. The office bearers for the academic year 2021-22 are:

EESA Office Bearers with Faculty and audience during the ceremony

EESA 2021-22 Office Bearers		
1.	President	Mr. Divyanshu Chadda
2.	Vice-President	Mr. Saurabh Sawarkar
3.	Secretary	Ms. Shraddha Meshram
4.	Jt. Secretary	Ms. Tanu Gupta
5.	Treasurer	Mr. Omhari Shrivastava
6.	Jt. Treasurer	Mr. Rohan Kukreja

DEPARTMENT OF ELECTRONICS ENGINEERING

Faculty Corner

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Prof. Poorvi Joshi	Emerging trend in embedded system	20th Jan 2022	J. D. College of Engineering
2	Dr B M Hardas	Netaji Subhashchandra Bose: 125th birth anniversary celebration	21st Jan 2022	Dr PuroshottamThote College of social science, Nagpur
3	Dr B M Hardas	Netaji Subhashchandra Bose: 125th birth anniversary celebration	23rd Jan 2022	Vishwa Mangaly ChhatraSabha, Nagpur
4	Dr B M Hardas	Netaji Subhashchandra Bose: 125th birth anniversary celebration	24th Jan 2022	R. S. Mundle Dharampeth Arts and commerce college, Nagpur
5	Dr B M Hardas	Netaji Subhashchandra Bose: 125th birth anniversary celebration	26th Jan 2022	Schools of Kolhapur Municipal corporation
6	Dr B M Hardas	Netaji Subhashchandra Bose: 125th birth anniversary celebration	22nd Feb 2022	Umred Mahila Kala Mahavidyalay, Umred, NAgpur
7	Dr. Meghana Hasamnis	University Affiliation	24th Feb 2022	Tulsiramji Gaikwad College of Engineering and Technology, Nagpur
8	Dr. Rohini S. Ochawar	Career Guidance	12th Mar 2022	Royal Gondwana Public School, Shankarpur, Nagpur
9	Prof. Sandeep Pandey	Hardware assisted security for IoT	13th Mar 2022	IEEE PES Bombay Section

Publications

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/ Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
1	Mohammad Farukh Hashmi, Dr. Jagdish Kene, Dr. Deepali Kotambkar, Praveen Matte, Dr. A.G. Keskar	An efficient P300 detection algorithm based on Kernel Principal Component Analysis-Support Vector Machine	Computers and Electrical Engineering, ELSEVIER	Jan2022	ISSN: 0045-7906	Vol 97, 107608	SCI

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/ Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
2	Shubh Agrawal, Divyansh Kumbhare, Navyashree Raghupatrao, Rasika Rewatkar, Rohini Ochawar, Piyush Kokate	Qualitative detection of Algae using RGB based indices from Drone images	1st International Conference on Advances in Water Treatment and Management	25th -26th Mar 2022	ISBN 97893 56206 182	--	--
3	Suroosh S. Ali Bhavishya B. Waghwani Shubham Anjankar, Dr. Jayu Kalambe Dr. Suresh Balpande Puspen Mondal Pragya Tiwari Vishal Rathee	Microfuidic Based Analyzer for Water Dissolved Arsenic (AsIII) Detection	Water Air Soil Pollut (2021) 232:507 Springer Nature Switzerland AG 2021	--	--	vol 232, 507 (2021) https:// doi.org/ 10.1007 /s11270-021-05449-w	SCI
4	S. Neelkandan A. Arun. Raghu Ram Bhukya, Dr.B. M. Hardas, T.Ch. Anil Kumar, M.Alok	An Automated Word Embedding with parameter Tuned Model for Web Crawling	Intelligent Automation and Soft Computing	Jan 2022	--	DOI: 10.32604 /iasc. 20220 02209	SCI
5	Prof. Poorvi Joshi	Analysis and enhancement of q-factor in thin-film bulk acoustic wave resonator (fbar)	International Conference on Applications of Intelligent computing in Engineering and Science	12-13 Feb, 2022	--	National Institute of Techno-logy, Raipur	--
6	Shubh Agrawal Divyansh Kumbhare, Navyashree Raghupatrao, Rasika Rewatkar, Dr. Rohini Ochawar, Piyush Kokate	Qualitative detection of Algae using RGB based indices from Drone images	1st International Conference on Advances in Water Treatment and Management	25th -26th March, 2022	ISBN: 97893 56206 182	PDEU Gandhi Nagar, Gujarat India	--

Sr. No.	Name of Author(s)	Title of the Patent	Status
1	Wazarkar, Pranav Sanjay, Patil Sajal Satish, YadavNitin Suresh, Bhurkunde, Neel Shrikant, Joshi PoorviKhushal	An IOT Based Anti-Collision System For Fishing Vessel Application No.202221005645 A	Patent Files and Published 8-04-2022

STTP/FDP/Other Training Attended by Faculty

S. N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
1	Prof. Archana Tiwari	Training Program on "Computational Techniques in Electromagnetic for Indigenous solver"	5th Dec -1st Jan 2022	SERB, IIIT Jabalpur
2	Dr. Bhalchandra M. Hardas	FDP on Outcome Based Learning	11-15 Jan 2022	Vivekananda Education Society Business School
3	Prof. Poorvi Joshi	Workshop on INUP - i2i Familiarization Workshop on Nanofabrication Technologies	19-21, Jan, 2022	IIT, Bombay
4	Dr. Richa Khandelwal	STTP onRESEARCH PAPER AND PROPOSAL WRITING FOR SCIENCE AND ENGINEERING	31 Jan - 4 Feb 2022	National Institute of Technical Teachers, Training and Research, Bhopal
5	Dr. Suresh Balpande	One week FDP on Advance Industrial Automation for Engineering Education and Research	31 Jan-4 Feb 2022	IIIT, Tiruchirappalli and INDWELL automation, Mangalore
6	Dr. Y. N. Thakare	Online FDP on Embedded System Design using Intel SoC FPGAs	28-30 Jan 2022	Intel and SGGSIET, Nanded
7	Dr. Suresh Balpande	One week FDP onOutcome based assessment"	21 Feb -25 Feb 2022	National Institute of Technical Teachers, Training and Research, Bhopal
8	Prof. Vishal Rathee	One week FDP on Outcome based assessment"	21-25, Feb, 2022	National Institute of Technical Teachers, Training and Research, Bhopal
9	Prof. Smita Daware	One week FDP on Outcome based assessment"	21-25, Feb, 2022	National Institute of Technical Teachers, Training and Research, Bhopal
10	Dr.Y.N. Thakare	Online One-week Faculty FDP on Open-Source Tools for Research"	09-15 Dec 2021	Ramanujan College, University of Delhi

S. N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
11	Prof. Nikhil S Damle	3 weeks course on film making and Animation Online and in the classroom	9-30 Mar 2022.	Into Film in association with Future Learn Received certificate of Achievement.
12	Dr. Pankaj Joshi	STTP on" Outcome based Education"	14-18 March 2022	National Institute of Teachers' Training and Research, Bhopal
13	Prof. Nikhil S Damle	8 weeks course on Accreditation of Undergraduate Engineering Programme	31st Jan-30 Apr 2022.	National Institute of Technical Teachers' Training and Research, Bhopal on Swayam

Departmental Activities

Conference, STTP and Guest Lectures organized in Department

S. No.	Conference/STTP/ Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Partial delivery of course contents by Industry expert for the course Cloud Computing using Raspberry Pi (ENTH63)	Mr. Sarang Shastrakar, Director, ElectroEra, Nagpur	6 Hrs.	16-30 Mar 2022
2	Partial delivery of course contents by Industry expert for the course Microwave Theory and Techniques (ENT361-2)	Mr. Hitendra Pethkar, Scientist D, SAMEER, IIT Bombay, Mumbai	6 Hrs.	19 Mar. 2022
3	Partial delivery of course contents by Industry expert for the course Nano-Electronics (ENT 458-1)	Mahesh Malewale, SoC Design Engineer, Intel, Bangalore	6 Hrs.	19 March to 5 April 2022

Student Achievements

Sr. No.	Name of Student	Graduation Year	Exam	Score/Rank/ Percentile
1	Vicky Kashinath Jha	2022	GATE 2022	AIR : 387 (IN) | AIR : 1033 (EC)
2	Sushrut Kotwaliwale	2022	GATE 2022	AIR : 2757 (EC)
3	Ruchi Rathi	2021	GATE 2022	AIR : 5867 (EC)
4	C. Rohit	2023	GATE 2022	AIR : 6293 (EC)
5	Manish Yadav	2023	GATE 2022	AIR: 6951 (EC)
6	Sushant Borkar	2023	GATE 2022	AIR : 12469 (CS)
7	Shreshtha Gole		SNAP	98.46
8	Ayushi Surange	2022	CAT 2021	86.11
9	Prajyot Bhandakkar	2021	CAT 2021	91.19
10	Muskan Kachhela	2022	GRE	308
11	Shreya Chakravarty	2022	IELTS	7.5 Band
12	Muskan Kachhela		IELTS	8 Band

An Interactive lecture series was organized by the department to initiative and motivate the student in the placement and career development process

1. Interactive lecture on "Know your company - Part 1" was organized on 11/03/2022 for third year students of Electronics Engineering and Electronics Design Technology Branch. The session was conducted by Prof. Allan Abraham of Electronics Department. 73 students of EN and EDT attended this program.

2. Interactive session lecture on "Know your company - Part 2" was organized on 25/03/2022 for third year students of Electronics Engineering and Electronics Design Technology Branch. The session was conducted by Prof. Allan Abraham of Electronics Department. 75 students of EN and EDT attended this program.

Placement for 2021-22 batch

The students proved their metal in the recruitment process conducted by various companies catering to ITES and CORE sector. Accenture, Persistent, IBM, Cognizant, Varroc, Infocepts, EY-India, L&T, Reliance Jio, Cerium, Growisto and many more visited the campus. 179 students were offered placements through the visiting recruiters.

Sector	Number of Students Placed
ITES and Allied sector	177
Core	7
Total	184

Sr. No.	Name of Company	Sector	No. of students placed
1	Accenture	IT	26
2	ATOS	IT	3
3	Capgemini	IT	4
4	Cerium	CORE	3
5	Congnizant	IT	33
6	DXC	IT	12
7	Growisto	IT	1
8	IBM	IT	11
9	Infocepts	IT	1
10	LTI	IT	6
11	LTSS	IT	1
12	My Caption Climber	IT	2
13	NICE	IT	2
14	Persistent	IT	33
15	Principal Global	IT	1
16	Reliance Jio	IT	2
17	Seven-X	IT	1
18	TCS-ninja	IT	2
19	Varroc	Core	2
20	Wipro Elite	IT	32

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Faculty Corner

Awards received by Faculty of department :

Dr. Bhumika A. Neole has received "Respect for Women power" award on the occasion of International Women's Day on 12thMarch, 2022from Shivsena Mahila Aghadi, South-West Nagpur.

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Ankita Hitesh Harkare	IoT Applications using Antenna	7th Jan, 2022	AI Beehive, Bengaluru
2	Dr. Bhumika Neole	'MATLAB Image Processing Tool Box	12th Feb, 2022	Electronics and Telecommunication Department, Yeshwantrao Chavan College of Engineering, Nagpur under the grant received from AICTE on Skill & Personality Development Programme Centre.
3	Dr. Mridula Korde	Recent Trends in Wireless Communication	19th Feb, 2022	Cummins College of Engineering for Women

Publications

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
1	Dr. R. B. Raut	A Novel Perforated Rectangular Dielectric Resonator Antenna with Semi Elliptical Conformal Feed for C-Band Applications	Electromagnetics - Taylor & Francis	Feb, 2022	0272-6343	10.1080/02726343.2022.2031158,Vol. 41, 2021-Issue 8 pp 570 580	SCI
	Dr. Jagdish D Kene	An efficient P300 detection algorithm based on Kernel Principal Component Analysis-Support Vector Machine	Computers and Electrical Engineering	Jan 2022	ISSN: 0045-7906	--	SCI

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
3	Dr. D.J. Dahigaonkar, Adhishree S. Kothiwan Chaitanya D. Sudan Samruddhi A. Yawalkar Shreyas N. Sinha	Design and Development of movable intelligent Trolley system for assistance of immobile	International journal of Mechanical Engineering having E-	December, 2021	0974-5823	Vol. 6 No. 3 pp. 2841-2843 ISSN: 0974-5823	Scopus
4	Dr. Pallavi Parlewar	A Smart AI based personal assistant to support Covid-19 patient	International journal of Mechanical Engineering having E-	December 2021	ISSN: 0974-5823	Vol. 6 No. 3 pp. 2834-2836	Scopus
5	Varad C. Joshi Mandar M. Pimparkar, Dr. Prasanna P. Deshpande	Design and simulation of disc resonator for high frequency 5G bands	International Journal of Mechanical Engineering), Kalahari Journals,	December 2021	0974-5823	Vol. 6, No 3, pp. 2844-2847	Scopus
6	Dr. Pallavi Parlewar Dr. B. A. Neole	Facemask Detection Using Raspberry Pi	International journal of Mechanical Engineering having E-	December 2021	ISSN: 0974-5823	Vol. 6 No. 3 pp. 2848-2850	Scopus
7	Dr. Bhumika Neole Dr. Pallavi Parlewar, Prof. Ankita Harkare	Farm Protection and Monitoring with Smart Animal Intrusion System	International journal of Mechanical Engineering having E	December 2021	ISSN: 0974-5823	Vol. 6 No. 3 pp 2851-2855	Scopus
8	Mr. N. M. Borkar, Dr. P. K. Parlewar	Innovative Directional Ultra-Wide Band Medical Imaging Antenna	International Journal of Mechanical Engineering	December 2021	0974-5823	Vol 6, No. 3, pp 2864-2067	Scopus
9	Prof. Ankita Harkare, Dr. A.G. Kothari, Dr. A. Bhurane	Novel Rectangular Multiband Dielectric Resonator antenna with Slot for Broad-band Applications	International Journal of Mechanical Engineering), Kalahari Journals,	December 2021	0974-5823	Vol. 6, No 3, pp. 2868-2872	Scopus

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
10	Dr. Pradip R Selokar, Radha Padhye, Kaivalya Chakradeo, Insiya Saher, Spandan Shrivastav	Quick Response Code Based Smart Attendance System	International Journal of Mechanical Engineering	December, 2021	0974-5823	Vol. 6, No. 3, pp 2878-2881	Scopus
11	Mr. N. M. Borkar, Dr. P.K. Parlewar	Antennas in Medical Applications	2021 IEEE Indian Conference on Antennas and Propagation (InCAP) IEEE Xplore digital library	December 2021	ISSN: 0974-5823	Vol. 6 No. 3 pp. 2834-2836	Scopus

STTP/FDP/Other Training Attended by Faculty
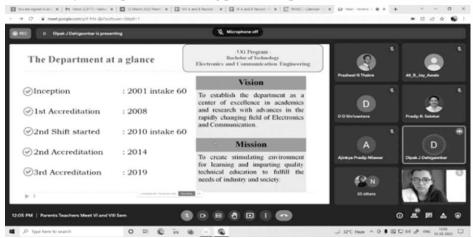
S. N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
1	Dr. Mridula Korde	Successfully completed NPTEL FDP/ course on "Fundamentals of MIMO Wireless Communication"	12 weeks Jan-March 2022	IIT, Kharagpur
2	Dr. R.B. Raut	AICTE FDP on UHV-I	3rd – 7th Jan 2022	AICTE NCC-IP
3	Dr. S.B. Pokle	Participated in International Training Workshop on 'Industry 4.0 and Energy Management',	16 Dec 2021	University of California, Irvin, Through Coursera
4	Prof. Nishant M. Borkar	FDP on "Electromagnetic Interference (EMI) and Electromagnetic Compatibility (EMC)"	19th – 20th Jan 2022	Centre for Science & Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre) jointly with the Society of Energy Engineers and Managers (SEEM), India,

S.N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
4	Dr. Bhumika Neole	Training Attended on "MATLAB and LABVIEW Programming for Engineering Applications"	24th Jan 2022 to 04th Feb, 2022	Conducted by National Institute of Technical Teachers' Training and research, Chennai
5	Dr. R.B. Raut	UHV FDP Refresher-I Part I	31st Jan, 2022 to 04th Feb, 2022	AICTE NCC-IP
6	Dr. P. K. Parlewar	Outcome Based Assessment	1 Week (31st Jan- 4th Feb 2022)	NITTT Bhopal
7	Prof. Ankita H Harkare	Outcome Based Assessment	1 Week (31st Jan- 4th Feb 2022)	NITTT Bhopal
8	Mr. N.M. Borkar	FDP - Electromagnetics: Recent Trends and Future Applications"	28th Feb – 5th Mar 2022	IIT Indore
9	Dr. R.B. Raut	Design Thinking	7th – 13th Mar, 2022	Turnip Innovations Pvt. Ltd.
10	Mr. N.M. Borkar	FDP- Statistical Modelling and Analysis of Advanced Wireless Communication Systems	17th – 23rd Mar, 2022	IIT Indore

Departmental Activities

1. Parents Meet : Parents Teachers Meet was organised by EC Department on 15th January,2022 for III Semester and 12th March 2022 for VI and VIII Semester. The Meet was addressed by Dr. D. J. Dahigaonkar, HoD, ECE who briefed the parents about Vision, Mission, PEO, PSOs of the department. Students Placement, Exam related queries were well addressed by faculty members. The Meet was well received by parents and they appreciated the efforts by the department during pandemic period.

Online Parent teacher meeting in ECE department
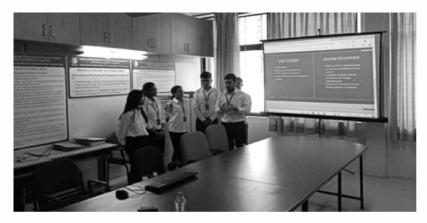
2. Events (Internal Smart India Hackathon 2022) – RCOEM Internal Smart India Hackathon 2022 event was conducted on 24/3/2022 and Department of Electronics & Communication Engineering served as a host for short listing the teams under Hardware Category. The teams participated were Binary Brains, SCIONS, Team MiRACl and Bot Army for screening their ideas and presentation in front of juries. Mr. Abhay Deshpande, director SSG Embedded Solutions Nagpur, Prof. Vipul S. Lande, EC, RCOEM and Dr. D J Dahigaonkar, Head EC, RCOEM were members of jury panel. The event was coordinated under the inchargeship of Prof. Vipul S Lande along with the committee members Prof. A P Nilawar, Prof. L M Heda and Prof. Y Thakre. The results was declared on 24/3/2022 and the selected team in Hardware category are Team MiRACl and Binary Brains.

RCOEM Internal Smart India Hackathon 2022 teams

Participant team presenting their Ideas to Jury members

Participant team presenting their Ideas to Jury members

Departmental Activities

Conference, STTP and Guest Lectures organized in Department

Sr. No.	Conference/STTP/ Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Guest Lecture on "Big Data and Cloud Computing Technologies"	Rajshri Chopde, Big Data Platform @ Yahoo, USA	1 Hour	7th Mar, 2022

Guest Lecture on "Big Data and Cloud Computing Technologies"

Sr. No.	Conference/STTP/ Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
2	Workshop on Data Analysis using Python	Arpit Yadav	2 Days	29-30 March 2022

Workshop on Data Analysis using Python : Hands-on Session

Workshop on Data Analysis using Python : Hands-on Session

Other activity(s):

1. Dr. S. B. Pokle, worked as a reviewer for 10th International Conference on Emerging Trends in Engineering & Technology Signal and Information Processing (ICETET SIP-22), to be held in GHRCE Nagpur on 29-30 April, 2022. Reviewed 04 papers.

2. Dr. S. B. Pokle, worked as Officer In-charge first shift for conducting autonomy end semester examination RW2021.

3. Dr. S. B. Pokle, conducted Ph.D. pre-registration seminars of candidates as a part of RRC meeting at RTM Nagpur University on 19,21,and 30 March-2022.

4. In session 2021-22, total 104 ECE students opted and successfully completed their VIII Semester internship from various industries.

DEPARTMENT OF ELECTRONICS DESIGN TECHNOLOGY/ BIOMEDICAL ENGINEERING

Faculty Corner

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Dr. (Mrs) J.P. Kalambe	Bio-medical Engineering	10/1/2022	St. Vincent Pallotti COE, Nagpur
2	Dr. Dinesh R. Rotake	Micro-Nano Fabrication Techniques and its Application in Sensors	25th February 2022 from 2.30 PM to 4:30 PM	Vidarbha Institute of Technology, Uti (Bhivapur) Umrer Road, Nagpur – 441209 Maharashtra India

Publications

S.N.	Name of the Authors	Title of the Paper	Name of the Journal/Conference/Book	Date of Conference/Publication	ISSN/ISBN	DOI, vol., Iss., pp	SCI/Scopus/ICI/Other (index)
1	Dinesh Rotake; Partha Pratim Goswami; Shiv Govind Singh	Ultraselective, Ultrasensitive, Point-of-care electrochemical sensor for detection of Hg(II) with electrospun-InZnO nanofibers	Journal of Electroanalytical Chemistry	29/03/2022	1572-6657	Accepted for Publication	SCI (IF=4.5)

STTP/FDP/other Training Attended by Faculty

S.N.	Name of Faculty	STTP/FDP/Training Attended	Duration/Date	Organizers of the event
1	Prof. (Mrs.) Anju Gupta	Online course on Introduction to the Internet of Things and Embedded Systems offered by University of California, Irvine through Coursera	12/1/2022	University of California, Irvine
2	Jitendra B. Zalke	Online course on "AI for Everyone: Master the Basics"	29/01/2022	edx online platform
3	Dr. (Mrs) J.P. Kalambe	FDP on Embedded System Design using Intel SoC FPGAs	27-29/1/2022	SGGS Institute of Engg and Technology, Nanded

S. N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
4	Dr. J.A. Shrawankar	STTP on " Outcome Based Assessment"	21-25/2/2022	National Institute of Technical Teachers Training and Research, Bhopal
5	Dr. Dinesh Rotake	Successfully participated in IP awareness program under National IP Awarness Mission	16/2/022	Intellectual Property office, India
6	Dr. Dinesh Rotake	Three days FDP on " SoC Design Methodology using Intel FPGAs"	17-19/02/2022	Organised by IIT Goa, in association with Intel Technologies Ltd. Bangalore
7	Dr. Dinesh Rotake	Participated one week online STTP on "Emerging Trends in Pervasive Electronics Industrials Internet of Things"	21-25/2/2022	Organised by GHRIET, Nagpur
8	Prof. Jitendra B. Zalke	Successfully completed online course on " Data Science Tools" offered by IBM	31/3/2022	IBM's Foundations of AI

Departmental Activities

15.1 Events Organised

A) Celebration of National Youth Day:

Department of Electronics Engineering and Electronics Design Technology, under the aegis of their student's society i.e. Electrolitz and Genesis respectively, celebrated National Youth Day on 12th January 2022 in online mode. An Intra Collegiate elocution competition "YOUTHOPIA" was also organized on this occasion for the students of second year of both the branches. The participants were asked to present their views on the topic "Role of Youth in Nation Building" for a stipulated time of 5 minutes. Each participant was supposed to talk on the said topic in any one of the language i.e. Hindi or English. All the participants prepared well for the competition and got an opportunity to express their viewpoints on the message given by Swami Vivekanand to youth. The event concluded by declaring the results in which Ms. Anushka Kawathekar and Mr. Varun Kaushik were declared the first and second winners.

B) Workshop on PCB Design

Biogenesis-student society department of Biomedical engineering and EDT successfully conducted seven days in house workshop on Hands on Training on PCB Design. Workshop was put forth for 2nd year Biomedical engineering students to make them familiar with process of PCB design including few mini-project. The Objectives of the workshop was to make the students understand selection of electronic components, preparing basic circuits layout using Orcad, preparing MNL files and editing with Layout Plus software. Prof.Jitendra Zalke and Prof Anju Gupta were the instructor during the workshop and explained all

the theoretical and practical details about the softwares normally used in the process of PCB making. They have also introduced the facilities and process of PCB fabrication in the laboratoty.

Student team from final year, Ashish Tripathi, Priyanka Maske and Shivkumar Yadav worked hard in coordinating the workshop. They helped all the participants throughout the workshop in providing the help in hands on sessions and solving their real time queries.

Prof. Jitendra Zalke explaining the PCB making software

Prof. Anju Gupta demonstrating the process of PCB fabrication in laboratory session

Parents Meet

A) Department of Biomedical Engineering:

Department of Biomedical Engineering have organized online parent teacher meet on 15th January, 2022 at 11:30 AM for 3rd Sem students. In the beginning Dr. Dinesh Rotake, faculty Incharge, welcomed all the parents and communicated the aim and objectives of the meeting along with PEO's and PO's. Dr. (Mrs.) J. P. Kalambe, Head of the Department, thanked and appreciated all the parents for their cooperation and support during this pandemic situation. In her address, she has explained various pedagogical approaches used by the

faculty for effective teaching learning. She requested the parents to ensure that students attend the classes regularly. Prof. Jitendra Zalke presented overview and action plan for students regarding the placement. Some of the queries by the parents regarding placement and internship were also answered by Prof. Jitendra Zalke. Prof. Anju Gupta explains exam structure and answered the parent's queries regarding the exams. After the address by head of the department, parents have interacted with the class teachers Prof. Shubham Anjankar in meeting and also attend the parents queries telephonically. During this interaction attendance and test performance was shared with the parents.
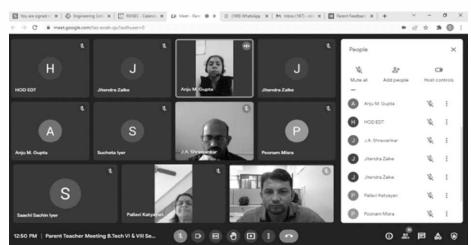
A) Department of Electronics Design Technology:

Department of Electronics Design Technology have organized online parent teacher meet on 5th March, 2022 at 11:30 AM for 6th and 8th semester. In the beginning Dr. Dinesh Rotake, faculty Incharge, welcomed all the parents and communicated the aim and objectives of the meeting along with PEO's and PO's. Dr. (Mrs.) J. P. Kalambe, Head of the Department, thanked and appreciated all the parents for their cooperation and support during this pandemic situation. In her address, she has explained various pedagogical approaches used by the faculty for effective teaching learning. She requested the parents to ensure that students attend the classes regularly. Prof. Jitendra Zalke presented overview and action plan for students regarding the placement. Some of the queries by the parents regarding placement and internship were also answered by Prof. Jitendra Zalke. Prof. Anju Gupta explains exam structure and answered the parent's queries regarding the exams. At the end, parents have interacted with the class teachers Prof. Prof. Jitendra Zalke and Prof. J. A. Shrawanker and class teachers also attend the parents queries telephonically. During this interaction attendance and test performance was shared with the parents.

Parents were also requested to submit the feedback. All the faculty members were present on the occasion.

Conference, STTP and Guest Lectures organized in Department

Sr. No.	Conference/STTP/ Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Guest lecture on " Group Discussion"	Prof. Akanksha Deshpande, Asstt. Prof. Humanities Dept. RCOEM, Nagpur	2 hours	17/02/2022
2	Guest lecture on "Guidance Resume writing and Presentation Skills "	Dr. Pratishruti Singh Agrawal, Asstt. Prof. Humanities Dept. RCOEM, Nagpur	2 hours	03/03/2022

Prof. Akanksha Deshpande guiding the 6th semester students for Group Discussion

Students' Corner

Toppers List (Winter 2021) : Biomedical Engineering Department

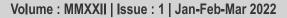| Sr. No.	Second Year
1	Devashree Naresh Sakharkar (9.43 CGPA)
2	Samidha Vivek Halmare (9.08 CGPA)
3	Pooja Anilkumar Jain (8.98 CGPA)

Students Placement (2021-22)

Sr. No.	Name of Student	Company Name	Core/ IT/ Sector	Pay Package
1	Sanyam Chandak	Accenture	IT	4.50 LPA
		Wipro	IT	3.50 LPA
		Capgemini	IT	4.00 LPA
2	Vedant Vyas	Accenture	IT	4.50 LPA
3	Krutika Paliwal	Accenture	IT	4.50 LPA
		Persistent	IT	4.70 LPA
		IBM	IT	4.25 LPA
4	Shiv Kumar Yadav	Wipro	IT	3.50 LPA
5	Priyanka Maske	Accenture	IT	4.50 LPA
		Wipro	IT	3.50 LPA
6	Sahil Rathi	Cognizant	IT	4.00 LPA
7	Himal Asawa	Wipro	IT	3.50 LPA
		SoftLink	IT	6.00 LPA
		Harrier Information	IT	3.60 LPA
8	Swejal Bagde	DXC Technologies	IT	4.00 LPA
9	Samiksha Paturde	DXC Technologies	IT	4.00 LPA
10	Shital Takbhawre	DXC Technologies	IT	4.00 LPA
11	Minal Rewatkar	Accenture	IT	4.50 LPA
		Wipro	IT	3.50 LPA
12	Aditi Agrawal	Accenture	IT	4.50 LPA
13	Rishi Khare	Accenture	IT	4.50 LPA
14	Nachiket Mairal	LTI	IT	5.00 LPA
		Cognizant	IT	4.25 LPA
15	Ashish Tripathi	Cerium Systems	CORE	4.10 LPA
16	B. Aishwarya	Persistent	IT	4.70 LPA
17	Pranav Agrawal	Wipro	IT	3.50 LPA
		Cerium Systems	CORE	4.10 LPA
18	Devyani Bhakte	Wipro	IT	3.50 LPA
19	Ayushi Pedulwar	TietoEVRY	IT	4.50 LPA
		Capgemini	IT	4.00 LPA
		EY	IT	6.40 LPA
20	Pratik Bhatia	Persistent	IT	4.70 LPA
21	Jagmeet Singh	Persistent	IT	4.70 LPA
22	Riya Paradkar	Cognizant	IT	4.25 LPA
		IBM	IT	4.25 LPA
23	Riya Lalwani	Persistent	IT	4.70 LPA
		Wipro	IT	3.50 LPA
		EY	IT	6.40 LPA

Sr. No.	Name of Student	Company Name	Core/ IT/ Sector	Pay Package
24	Sarthak Shrivastav	Cognizant	IT	4.00 LPA
		Capgemini	IT	4.00 LPA
25	Ritika Rathi	Wipro	IT	3.50 LPA
26	Rushikesh Mahajan	Reliance Jio	IT	4.50 LPA
27	Achal Kubade	Atos Global	IT	3.10 LPA

VIII Student went for Full semester Internship (2021-22)

Sr. No.	Name of the student	Institute/ Organization/ Industry
1	B. Aishwarya	Persistant System Pvt. Ltd., Nagpur
2	Pratik Sunil Bhatia	Persistant System Pvt. Ltd., Nagpur
3	Jagmeet Singh Khokhar	Persistant System Pvt. Ltd., Nagpur
4	Himal Umeshkumar Asawa	Harrier Information Systems Pvt. Ltd., Nagpur
5	Vedant Pramod Vyas	Harrier Information Systems Pvt. Ltd., Nagpur
6	Sanyam Sunil Chandak	Harrier Information Systems Pvt. Ltd., Nagpur
7	Krutika Rajendra Paliwal	Harrier Information Systems Pvt. Ltd., Nagpur
8	Sahil Rathi	Cognizant Technology Solutions India pvt ltd.
9	Sarthak Arvind Srivastava	Cognizant Technology Solutions India pvt ltd.
10	Swejal Sunil Bagde	Dolphin
11	Shital Anand Takbhawre	Dolphin
12	Riya Kailash Paradkar	Fightright Tcehnologies pvt ltd
13	Riya Manoj Lalwani	Kratin Software Solutions Pvt. Ltd., Nagpur
14	Nachiket Ninad Mairal	CuriousNsmart pvt. Ltd.
15	Samiksha Gajanan Paturde	Quadrafort, Delhi
16	Anuja Manoj Arya	RSB Transmission Ltd, Jharkhand
17	Ashish Kamlesh Tripathi	Cerium Systems Banglore
18	Pranav S Agrawal	Cerium Systems Banglore
19	Shivkumar Ramkaran Yadav	Intellisense Banglore
20	Ayushi Pedulwar	EY LLP
21	Priyanka Maske	Align Infotech, Nagpur

DEPARTMENT OF INFORMATION TECHNOLOGY

Faculty Corner

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Dr. D. S. Adane	Network Layer Part-1	5th March 2022	Department of Computer Science and Engineering, Government College of Engineering, Nagpur
2	Dr. D. S. Adane	Network Layer Part-2	9th March 2022	
3	Dr. D. S. Adane	Secured Electronic Transaction Protocols	3rd March 2022	
4	Dr. D. S. Adane	PGP Protocols	4th March 2022	

STTP/FDP/other Training Attended by Faculty

S. N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
1	Dr. D.S. Adane	STTP on Outcome Based Assessment	31st January to 4th February 2022	National Institute of Technical Teachers' Training and Research, Bhopal

Departmental Activities

Course Conduction Activity

● Ten hours of course conduction by Mr. Madan Tiwari, Cloud Consultant, Masycoda Software Solutions was done for the course IT Infrastructure Services for students of VI Semester IT. These classes were conducted on 24th , 25th , 31st March and 1st April 2022.

● Eight hours of course conduction by Mr. Dinesh Khamele, Senior Software Architect, Persistant Systems Limited was done for the course Database Management Systems for students of VI Semester IT. These classes were conducted on 19th , 26th March and 9th April 2022.

Parents Meet, Alumni Meet and Departmental Installations or Events

● An online alumni meet of the department was conducted on 8th January 2022. It was attended by 81 alumni from various batches. An Alumni brochure, containing information of 350 alumni, was released on this occasion at the hands of Dr. Rajesh Pande, Principal RCOEM.

● Information Technology department conducted "COLOSSEUM 12.0" – An annual national level technical event, under Semicolon Tech Club (STC) of RCOEM on 19-22 January, 2022.

Following events were conducted in Colosseum 12.0:

Ideathon, GameN'Gain, Fun with Tech, Campus Xperia, Escape Room, Picasso, Poster Presentation and Workshop on AWS conducted by Prof. Purshottam J. Assudani.

Conference, STTP and Guest Lectures organized in Department

Sr. No.	Conference/STTP/ Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Introduction to Popular IDEs	Mr. Akhilesh Yethirajam Development Lead Standard Chartered Bank,Malaysia	2 Hours	14 March 2022
2	Introduction to POWER BI & Opportunities	Ms. Amruta Chimote, Data Analyst, Master Trainer, Edubridge Learning India Pvt ltd. Mumbai	2 Hours	24-25 March 2022

Students' Corner

Toppers List (Combined list of two shifts) if applicable

S.N.	Second Year	Third Year	Fourth year
1	Preeti Vinod Yadav (9.7)	Shivam Kumar (10)	Kunal Manoj Agrawal (9.6)
2	Varad Shirish Loya (9.65)	Samiksha Prashant Kodgire (9.86)	S Bhavana S V V Ramana S (9.54)
3	Vaishnavi Rushiraj Chouhan (9.52)	Sudarshan Sunil Ahir (9.14)	Rutvik Pradeep Bhute (9.52)

Students in Higher Studies

Year	Name of Students enrolling for Higher studies	Program Graduated (B.E. / M. Tech/ MBA/MCA)	Name of the Department	Name of Institution of Higher Studies	Name of program of Higher Studies
2020-21	Kunal Agrawal	B.E.	Information Technology	University of Dayton	Master of Computer Science
2020-21	Radhika Gupta	B.E.	Information Technology	University of Illinois	Master of Science
2020-21	Saloni Bhaiya	B.E.	Information Technology	PACE University	Master of Science
2020-21	Aniket Alur	B.E.	Information Technology	The University of Texas, Dallas	Master of Science
2020-21	Rahul Ramkrishnan	B.E.	Information Technology	NC State University	Master of Computer Science

- Prof. Purshottam J. Assudani conducted a 20 hours corporate training on Microsoft Azure Architect Administrator Associate (AZ-104) for the company "Vodafone-UK" from 21stMarch to 25thMarch 2022. Participants were employees of Vodafone from different countries like India, Egypt, Germany, Portugal, Spain, Italy etc. The consultancy amount generated for the same is Rs. 50,000/-.

- 97.18% of 2021-22 Batch IT students got placed through campus drive.

- Top IT companies like Amazon, Principal Global, Persistent, Infosys, VmWare, Nutanix, Capgemini, Cognizant, L&T Infotech, Accenture, Capgemini, DXC Technologies, ZS Associates,IBM, Icertis, Fresh Gravity selected 69 students from the Department.

- 53 students went for Full Time Internship in top IT companies Amazon, VmWare, Nutanix, Principal Global, Icertis, ZS Associates, Fresh Gravity, Persistent, Cognizant, Accolite from the Department.

- The placement details of department for the session 2021-22 are as follows:

Sr. No.	Company Name	No. of Offers
1	Accenture	23
2	Accolite	2
3	Amazon	2
4	Capgemini	25
5	Cognizant	38
6	Cybage	6
7	Datametica	1
8	Delta-X	1
9	EY-India	7
10	Fresh Gravity	2
11	Hitachi solutions	2
12	IBM	12
13	Icertis	5
14	Infosys	1
15	LTI	9
16	Nutanix	1
17	Persistent	22

Sr. No.	Company Name	No. of Offers
18	Principal Global	3
19	Seven-X	2
20	Softlink	1
21	TCS (Digital)	1
22	TietoEVRY	2
23	vConstruct Private Limited	1
24	VMware	2
25	Wipro	10
26	ZS	6
27	Allscripts	1
28	Capillary	2
29	DXC Technology	2
30	PWC	1
31	STL	1
32	Zensar	1
33	Citiustech	1
34	TCS	5
	Total	**190**

DEPARTMENT OF INDUSTRIAL ENGINEERING

Faculty Corner

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Mangesh P Joshi	Applications of PROMETHEE Approach in Logistics Research	5th December 2021	Department of Mechanical Engineering, National Institute of Technology Calicut, Kerala

- Dr. V. S. Deshpande has been granted patent for an invention entitled "A FIXTURE FOR MANUFACTURING FURNITURE"

- Prof. Prashant Shiwalkar has been granted patent for an invention entitled "A WRENCH"

- Prof. Mangesh P Joshi served as a reviewer of the submission, "DESIGN OF AN ACCESSORY TO PROTECT WHEELCHAIR USERS FROM RAIN AND SUN," for International Journal of Mechanical Engineering and Robotics Research(SCOPUS).

- Prof. Mangesh P Joshi served as a reviewer of the submission, "An Ergonomic Approach to Laptop Backpack to Reduce Physiological Complaints and Increase Productivity," for Theoretical Issues in Ergonomics Science.(ESCI).

Publications

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
1	Yogesh V. Deshpande, T. A. Madankar, S. S. Pund	Application of computational technique in experimental study of abrasive water jet machining of Aircraft materia	3rd ICSTR Lisbon-International Conference on Science & Technology Research. Conference Venue: Universidade Autónoma de Lisboa (UAL), Lisbon, Portugal	29 Nov 2021 to 30 Nov 2021	--	--	--
2	Prof. Prashant Shiwalkar	Novel Methodology for Inflection Circle based synthesis of Straight Line Crank Rocker Mechanism	The Journal of Mechanisms and Robotics	December 24, 2021	--	JMR-21-1111 https://doi.org/10.1115/1.4053373	SCI

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
3	Mahendra M. Gupta	Hydroxy Gas Enriched Diesel Fuel Investigations on Homogenous Charge Compression Ignition Engine with Change in Injector Opening Pressure.	Petroleum Science and Technology. Taylor & Francis, 2021	24 Nov 2021	--	https://doi.org/10.1080/10916466.2021.2007126	SCI
4	Mahendra M. Gupta	Effect of Varying Flowrate of Oxy-hydrogen gas addition on Combustion and Emission characteristics of Early Direct Injection Homogenous Charge Compression Ignition Engine	International Conference on Energy Conversion and Thermo-fluid Systems (i-CONECTS 2021) Malviya National Institute of Technology Jaipur.	Nov 19-20, 2021,	--	--	--

Departmental Activities

An International Conference on "Smart Strategies for Self Reliant Economy - An Industrial Engineering Perspective"

An International Conference on "Smart Strategies for Self Reliant Economy - An Industrial Engineering Perspective" was organized on 8 th and 9 th Oct 2021 by Industrial Engineering Department, RCOEM in Association with Indian Institution of Industrial Engineering (IIIE).

The chief Guest for the inaugural function was Mr. Aditya Saraf, Director Nice Software Solutions. In his inaugural speech Mr. Saraf emphasized on how self reliant economy can be obtained. He also said that the start ups and entrepreneurs play very important role in achieving self reliance.

Dr Rajesh Pande. Principal RCOEM, congratulated Industrial Engineering Department for selecting an apt theme for the conference in this pandemic situation. In his address he quoted Prime Minister Narendra Modi for Atma Nirbhar Bharat and emphasized the necessity of a self- reliant India. Much has changed in the new normal since the world is facing the pandemic and it's after effects, so a perspective for self-reliance in science and technology (S&T) and industry in a globalised world is the need of the hour.

Dr V.S.Deshpande, General Chair of the conference, welcomed all the delegates and emphasized that the conference aims to reflect the needs for critical discourse and debate on today's contemporary business issues at large and on the theme in specific. He also said that this conference will prove a memorable and productive discourse for all those who are a part of this event and hoped that event will motivate and profit everybody.

Dr Rashmi Shahu, Organising Chair of the conference, explained the main goal behind the conference is to share and enhance the knowledge of each and every individual in this NEWNORMAL for making the economy self reliant. She also said that the conference aims to bridge the gap between the researchers working in academia and other professionals through research presentations and keynote addresses in current industrial and technological trends.

The responses to the call-for-papers had been overwhelming from around the country including the prestigious IIT and NIT. All the papers were divided into five tracks to be conducted simultaneously. There were Invited talks on specialized subjects related to the theme by Dr. Abhay Kumar Kuthe, VNIT, Nagpur, Mr. Sachin Sanghi, Consultant Industry 4.0, and Dr. Rashmi Uddanwadikar, VNIT, Nagpur, Mr.Abhishek Gupta, WE Win Pvt. Ltd.

The Chief Guest for the Valedictory function was Mr. Gorakh Sirsikar Strategy and Business Development, Nickelwala Group.

Dr. Priya Khandekar and Dr. Yogesh Deshpande compeered the program and all the faculty of Industrial Engineering department worked hard for the success of the conference.

DRISHTI - The Indus Way

On 10th December 2021, the Department of Industrial Engineering conducted an orientation programme for second students named DRISHTI - The Indus Way. The major objective of the programme was to make the students aware of the academic aspects of the course, upcoming co-curricular and extracurricular activities, workshops, exhibition, seminars, conferences etc.

With Goddess Sarasvati's blessings the event started with an opening remark given by Dr Yogesh Deshpande (Prof. In charge, IES) who briefed the students about the event and welcomed them. The Head of Department, Dr. M. M. Gupta addressed   the students about the branch and career opportunities in IE. Later on, all professors of department gave brief introduction of them and told students about the various domains of IE they will be learning. . Mr. Varun Chopra (Alumni, Industrial Engineering) shared his experience in corporate world as an Industrial Engineer. Students attended the event in both online and offline mode. Vote of thanks was proposed by Mr. Meher Shantanu Singh, Students' President, IES.
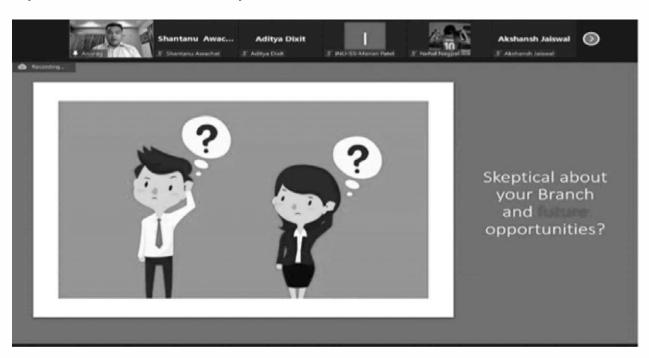
Reflection

Webinar on Careers in Management

On 13th December 2021, the Industrial Engineering Society (IES) organized a webinar on the topic, "Careers in Management." Prof. Deepak Ganachari was the guest speaker of the webinar. He is an Associate Professor at IES MCRC, specializing in Operations. He is an MBA in Marketing. He has given information on careers related to management and motivated the students. At last, the webinar concluded with the vote of thanks given by Mr. Shantanu Awachat, Secretary of IES.

Webinar on Journey from RCOEM to Campus Recruitment

On 13th December 2021, the Industrial Engineering Society (IES) organized a webinar on the topic, "Journey from RCOEM to Campus Recruitment." Mr. Anurag Nashine, of alumni of Industrial Engineering was the guest speaker of the webinar. He graduated from RCOEM as an Industrial Engineer in 2017 and done MBA from SIDTM, Pune. He shared his experience from start to a successful Industrial Engineer, a curious student, and a confident candidate for the campus recruitment. The webinar was concluded with the Vote of thanks given by Mr. Shantanu Awachat, Secretary IES.

Students Corner

S. No.	Name of Student	Event Name	Organizing agency	Date of event
1	Raghavendra Laddha	Participated in 6th All India Indian Classical Music, Dance, Folk Dance, Drama Competition & 3rd International Festival	Hindustan Arts and Music Society	25-12-2021
2	Ruchita Manoj Sahare	Participated in Photography and Artmanix, Mechfiesta 2k21	Yeshwantrao Chavan College of Engineering, Nagpur.	01-10-2021
3	Tanmay Wasu	Completed Internship Program in Catia	1stop.ai	21-11-2021
4	Aditya Gosewade	Completed Internship in Digital Marketing Internship	The Sparks Foundation	27-12-2021
5	Aditya Gosewade	Completed Internship in Digital Marketing Internship	Team Everest	12-11-2021
6	Abdul Razique	Completed Online course on DIGITAL SKILLS: DIGITAL MARKETING	ACCENTURE	22-12-2021
7	Sahil Chopkar	Completed Online course on Managerial accounting /cost accounting	Udemy	29-12-2021
8	Sumit Rajendra Mishra	Completed Online course on Python bootcamp	Intel student development club (ISDC)	24-12-2021
9	Mayank Narendra Sharma	Completed Online course on Python bootcamp	Intel student development club (ISDC)	24-12-2021
10	Kankshita Hatwar	Completed Online course on Python Bootcamp	Intel Student Developer Club of RCOEM	24-12-2021
11	Aditya Dixit	Completed Digital skills- AI	Future learn accenture	29-12-2021
12	Sugam Chowdhary	Completed Online course on databases with python	Coursera	28-10-2021
13	Ayush Balpande	Completed Online course on Adobe Photoshop	Udemy	27-09-2021
14	Akansha Bawankule	Completed Online course on Cyber security	Smartknower	14-07-2021

S. No.	Name of Student	Event Name	Organizing agency	Date of event
15	Ashi Jain	Completed Online course on Photo shop course	Udemy	28-09-2021
16	Puru Ladhani	Completed Online course on 30 Days of Google Cloud Programe	Google Developer Student Club	29-10-2021
17	Aditya Gosewade	Participated in GDG DevFest India 2021	Devfest 2021 India - Google Developer Groups	24-10-2021
18	Anshuman Prajapati	Participatedin 3B printing and manufacturing	CIIIT	15-12-2021
19	Shreya Das	Completed training on Google Cloud Program 2021	Google Developer Student Clubs	13-11-2021
20	Aditya Gosewade	Completed training on Days of Google Cloud Program	Google India - GDSC	13-11-2021
21	Esha Kirti	Completed training on Days of Google Cloud	Google Developer Student Clubs	25-10-2021
22	Aditya Gosewade	Attended a webinar on A Walk through Google Summer of Code	Google Developer Student Clubs	27-11-2021
23	Mrunal Manish Mohatkar	Attended a Workshop on Mechatronics and internet of things	Ramdeobaba College of engineering and management	13-12-2021
24	Anshuman Prajapati	Participated in Workshop on CNC programming and VMC operation	CIIIT	11-12-2021
25	Anshuman Prajapati	Participated in Workshop on Solid modeling (CATIA V6)	CIIIT	09-12-2021
26	Anshuman Prajapati	Participated in Workshop on Mechatronics and internet of things (IOT)	CIIIT	13-12-2021
27	Anshuman Prajapati	Participated Multi body dynamics (MSC Adams)	CIIIT	21-12-2021
28	Anshuman Prajapati	Participated in Workshop on Finite element analysis (MSC NASTRAN AND PATRAN)	CIIIT	21-12-2021

S. No.	Name of Student	Event Name	Organizing agency	Date of event
29	Anshuman Prajapati	Participated in Workshop on Industrial robot operation (Yaskawa Arc welding)	CIIIT	18-01-2022
30	Tejas Sahare	Participated in Workshop on Achieving Fluency in Spoken English	Department of humanities	04-09-2021
31	Ishita Jain	Participated in Workshop on Android Study Jam	Google developer student club	16-01-2022
32	Yadnesh Kuthe	Participated in 63rd National Convention on Evolution of Industrial Engineering in COVID Eraâ€	IIIE National Headquarters Navi Mumbai / Hosted By: IIIE, Vadodara Chapter	04-12-2021
33	Abhijit S Rajurkar	Participated in 63rd National Convention on Evolution of Industrial Engineering in COVID Eraâ€	IIIE National headquarters Navi Mumbai(hosted by- IIIE vadodara chapter)	04-12-2021
34	Tegveer Singh Puni	Participated in 63rd National Convention on Evolution of Industrial Engineering in COVID Eraâ€	IIIE National headquarters Navi Mumbai (hosted by- IIIE vadodara chapter)	04-12-2021
35	Shubhankar Herwadkar	Participated in 63rd National Convention on Evolution of Industrial Engineering in COVID Eraâ€	IIIE National headquarters Navi Mumbai(hosted by- IIIE vadodara chapter)	11-12-2021

January - February - March 2022

Faculty Corner

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Prof. Himanshu Shukla	Introduction to maintenance Strategies	02/03/2022	Ordance factories Institute of Learning, Ambajhari
2	Prof. Himanshu Shukla	Predictive maintenance and spares Part management	04/03/2022	Ordance factories Institute of Learning, Ambajhari

Publications

S.N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
1	Dr. Yogesh Deshpande	Application of statistical and soft computational techniques in machining of Nickel based supper-alloy using cryogenically treated tools for estimation of surface roughness	Australian Journal of Mechanical Engineering	30 Jan 2022	1448-4846	DOI: 10.1080/ 144848 46.2021. 2023349	E-SCI
2	Prof. Mangesh Joshi	An investigative sensitivity study of Ovako working posture analyzing system (OWAS)	Theoretical Issues in Ergonomics Science	20 Feb 2022	14645 36X, 14639 22X	https://doi. org/10.10 80/146392 2X.2022. 2036859	E-SCI
3	Prof. Mangesh Joshi	Application of interpretive structural modelling (ISM) for developing ergonomic workstation improvement framework	Theoretical Issues in Ergonomics Science	22 Mar 22	14645 36X, 14639 22X	https://doi. org/10.10 80/14639 22X.2022. 2044932	E-SCI

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
4	Dr. M. M. Gupta	Combustion, Performance and Emission Characteristics of Diesel Engine Using Oxyhydrogen Gas as a Fuel Additive	Environmental Science and Pollution Research	Jan 2022	1614-7499	https://doi.org/10.1007/s11356-021-17975-5	SCI
5	Yogesh V. Deshpande, T. A. Madankar, S. S. Pund	Optimization of Surface Roughness and Cone Angle in Awj Machining of Aircraft Material Using RSM	MATTER: International Journal of Science and Technology	15 March 2022	2454-5880	https://doi.org/10.20319/mijst.2022.81.1732	SCILIT-Scientific Literature
6	Dr. D. R. Zanwar	Experimental inverstigation on the performance of a vapour compression refrigeration system under the influence of magnetic field generated using magnetic pai and halbach array.	Energy Sources part A, Taylor and Francis Journal	6th Jan 2022	--	https://doi.org/10.1080/15567036.2021.2024302	SCI

Departmental Activities

Industrial Visits

Industrial visits of VI semester students was conducted on 21st March 2022 and for III semester students on 24th March 2022 .Students visitedSpace wood Furnishings P.LTs ,MIDC higana and Deepshikha Castings.

Parent Teacher Meet

The Parent Teacher Meet for III semester was organized on Saturday 15/01/2022 from 11.00 am to 1.00 pm on online mode. 24 parents were present during the meet. For VI and VIII semester, PTM was held on Saturday 05/03/2022 from 12:30 pm to 1.30 pm in the department of Industrial engineering via online and offline mode. The following agenda was discussed with parents: Students' academic performance in examination (Test-I and Assessments), Student's attendance in class, Student's activities, Students' placement and guidance related to higher studies. An online/offline feedback was taken from each parent covering different aspects of teaching learning adopted by the department along with the suggestions.

Conference, STTP and Guest Lectures organized in Department

Sr. No.	Conference/STTP/ Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Writing an Effective Resume	Dr. Vinita S Virgandham is presently Asst. Prof, in the Dept. of English, Bhiwapur Mahavidyalaya, Bhiwapur	2 Hours	3rd Feb 2022
2	Interview and Inter Personal Skills	Mr. Hitesh Dewani, Director, HR mentors	2 Hours	5th Jan 2022
3	Problem Solving Skill	Mr. Shailesh Chopra Global Vendor Manager, Deutsche Bank, (Alumni)	2 Hour	22nd Jan 2022
4	Prospects in IE	Rahim Malik, IE at Hylife (Alumni)	1 Hour	11th March 2022
5	Career with IE	Anirudh Kukday (Alumni)	1 Hour	28th March 2022
6	How to do research	Prof. Professor P. K. Ray and Prof. Biswajit Mohanty from IIT Kharagpur	2 Hour	15th March 2022

Students Corner

S. No.	Name of Student	Event Type	Event Name	Organizing Agency	Achievement	Date of Event
1	Ankita Dwivedi	Quiz Competition	Data structures using C	College of Engineering, Nasik Dept. of Electronic and telecommunication	Completed	24-01-2022
2	Ruchita Sahare	Online Courses	Android Study Jam Program	Google Developer Students Club	Participated	16-01-2022
3	Ruchita Sahare	Workshop	Career Guidance	Skillship Foundation and Support by Chatra Shala	Participated	05-02-2022
4	Ruchita Sahare	Training	AI Research, Application on computer Image & Biomedical Instrumentation Research	Edu Care Twain with Yuan Ze University & National Chung Hsing University	Participated	13-02-2022
5	Ruchita Sahare	Webinar	Latest Research on Robotics Exoskeleton, Smart Biomaterials Asymmetric & Natural Synthesis	EduCare Twain with National Sun Yat-sen University	Participated	20-04-2022

S. No.	Name of Student	Event Type	Event Name	Organizing Agency	Achievement	Date of Event
6	Anurag Rajesh Mishra	Webinar	Process Monitoring and Automation	Mechanical Engineering Department (RCOEM)	Attended	25-01-2022
7	Tejas Sahare	Webinar	Process Monitoring and Automation	Department of Mechanical Engineering, RCOEM, Nagpur	Participated	25-01-2022
8	Esha Kirti	Online Courses	Python for beginners	Sololearn	Completed	25-02-2022
9	Manan Patel	Online Courses	Using Python to access Web Data	Coursera	Completed	25-01-2022
10	Kankshita Hatwar	Online Courses	Introduction to Self Driving Cars	University of Toronto	Completed	18-01-2022
11	Anshuman Prajapati	Online Courses	Marketing Analytics	Udemy	Completed	10-03-2022
12	Siddhant Binani	Internship	Two weeks FEA/CAE software internship	RCOEM TATA CIIIT	Completed	21-01-2022
13	Shantanu Awachat	Internship	Fundraiser Internship (NGO)	Free Pads for India	Completed	27-02-2022
14	Himanshu Subhash Yadav	Online Courses	Himanshu Yadav	Udemy	Completed	30-03-2022
15	Shubhangi Dinesh Bokde	Internship	Two weeks software Internship	RCOEM-TATA-CIIIT	Participated	21-01-2022
16	Kartik Fadnavis	Online Courses	Artificial Intelligence	1 stop.ai	Completed	11-01-2022
17	Mohan Thawale	Online Courses	Data science with R: tidyverse	Udemy	Attended	08-01-2022
18	Sahil Chopkar	Online Courses	Online Courses	Udemy	Completed	10-02-2022
19	Omkumar Patil	Internship	Winter Internship	Webakruti	Completed	10-01-2022
20	Aditya Gosewade	Internship	Software Internship on Finite Element Analysis and Computer aided Engineering	RCOEM-TATA-CIIIT	Completed	21-01-2022

S. No.	Name of Student	Event Type	Event Name	Organizing Agency	Achievement	Date of Event
21	Arya Lokhande	Workshop	Careers in Management	Indian Education Society's Management College and Research Centre	Attended	20-01-2022
22	Sahil Chopkar	Online Courses	Managerial Accounting and Cost Accounting	Udemy	Completed	29-12-2021
23	Shantanu Ravindra Kale	Internship	Two weeks FEA/ CAE software Internship	TATA TECHNOLOGIES and RCOEM CIIIT	Completed	21-01-2022
24	Anshuman Prajapati	appeared for Competitive Exam	GATE2022	IIT Kharagpur	Other:	06-02-2022
25	Anshuman Prajapati	Internship	FEA/CAR Software Internship	CIIIT	Completed	21-01-2022
26	Mrunal Manish Mohatkar	Competition	E-bike challenge	IIT Bombay	Participated	31-01-2022
27	Kashish Wanjari	appeared for Competitive Exam	GATE 2022	IIT Kharagpur	Other:	06-02-2022
28	Kartik Agrawal	Workshop	Business Communication Workshop	Mycaptain	Participated	30-01-2022
29	Tanmay Wasu	Online Courses	Artificial Intelligence and the Future of Work 2021	Udemy	Completed	27-01-2022
30	Jatin Prashant Pradhan	Online Courses	Coursera Course (Data analytics)	Coursera	Completed	30-03-2022
31	Sujay Sadanand Sathe	Online Courses	Service Now Certified Administration for Beginners	Cognizant	Completed	05-02-2022
32	Neusy Jain	Sports	2nd Senior National Pittu Championship	World Pittu Federation	Participated	28-03-2022

DEPARTMENT OF MECHANICAL ENGINEERING

Faculty Corner

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Dr. S. S. Joshi	Expert Lecture on Solar Photovoltaic Thermal Systems at FDP on "Renewable Energy - A Future Alternative", at Government Polytechnic Thane.	17th - 21st January 2022.	Government Polytechnic Thane.
2	Dr. V.V. Shukla	Review Literature & Research Journal manuscript	3rd March, 2022	Anjuman College of Engineering & Technology, Nagpur

Publications

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
1	Pranjali Tete, Sandeep Joshi, Mahendra Gupta	Numerical investigation on thermal characteristics of a liquid-cooled lithium-ion battery pack with cylindrical cell casings and a square duct	Journal of Energy Storage	January 2022	2352-152X	https://doi.org/10.1016/j.est.2022.104041	SCI
2	Vishal V. Shukla, Pranil V. Sawalakhe, Pooja Shende	FEA of contact between scleral buckle and human eye tissues	Asia -Pacific Journal of Science and Technology	January 2022	2539-6293	https://doi.org/10.14456/apst.2022.15	Scopus
3	Nikhil Bhave, Mahendra Gupta, Sandeep Joshi	Combustion, Performance and Emission characteristics of Diesel Engine using Oxy-hydrogen gas as a Fuel Additive	Environmental Science and Pollution Research	January 2022	09441344, 16147499	https://doi.org/10.1016/j.fuproc.2021.107098	SCI

S.N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
4	Prashant Shiwalkar, Swati D. Moghe	ANN for improved Inflection Circle based synthesis of straight line crank rocker	ASME Journal of Mechanisms and Robotics	Feb 2022	1942-4302	https:// doi.org/ 10.1115 /1.4053 373	SCI

STTP/FDP/other Training Attended by Faculty

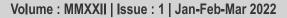| S.N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
1	Dr. Pranjali Deole	ATAL FDP on Machinery condition Monitoring	10/01/22 to 14/01/22	NPTEL
2	Dr. Ashish D. Urade	One week FDP on Design, Optimization and Manufacture of Materials	January 10-14, 2022	Shri Mata Vaishno Devi University, Katra, Jammu
3	Dr. G. R. Nikhade	One week FDP on Sustainable Product Design and Manufacturing	7-03-2022 to 12-03-2022	SSN College of Engineering, Chennai

Departmental Activities

Industrial Visits

An industrial visit of the students of second Year Mechanical Engineering was organised on 22nd March 2022 to Novasys Greenergy Pvt. Ltd. Five Faculty Members and 65 students participated in the visit which was conducted in two batches.

Visit of faculty members and students to Novasys Greenergy Pvt. Ltd. Nagpur

Parents Meet

The Department of Mechanical Engineering arranged Parent-Teacher Meet on 5th March 2022 Saturday in hybrid mode for VI and VIII semester students and their parents. The meet was scheduled from 11:00 AM to 12:00 PM in online mode (Google meet) and 12:00 noon to 01:00 PM in ofline mode in the department. The meeting was chaired by Dr. K. N. Agrawal, Professor and Head of Mechanical Engineering Department. All faculty members teaching to VI and VIII semester students were present for the meet. Following agenda was discussed: 1. Students' performance in Test 1 and Assignments. 2. Overall Performance of the students. 3. Students' placement and information related to department. 4. Feedback and Suggestions of Parents. The faculty members shared the students' attendance, academic records and progress of the student with their parents followed by the teaching learning process, assessment, and how it helps students in placement and for higher studies. Record of placement and internship and training programs in RCOEM-TATA-CIIIT was shared with the parents. In addition to the information about department, curriculum, students and faculty achievement ete. were also shared with the parents. The parents were asked to share their views/suggestions/issues related to curriculum and wards' performance. Total 19 Parents actively participated in the meet; their feedback and suggestions were received. Head of the Department instructed the teachers to implement the suggestions given by the parents. Conference, STTP and Guest Lectures organized in Department.

Alumni Meet

A virtual Alumni Meet was organized by Mechasso team and Dr. Y.M. Sonkhaskar, dept Alumni coordinator for 3 batches of 2013, 2014 and 2015 of Mechanical Engineeringon 5thFeb. 2022 at 2 pm.

The alumni from the above three batches were present for the meet. The Alumni wereenthusiastic and gave an overview regarding their work folio to the current students andfacultymembers.TheAlumni interactedwith the faculty members and also offered to help the current students in whichever way possiblein order to make them affluent with industry culture. The Meet was successful as the Alumniappreciatedthe information givenbyDr. K. N. Agrawal, Dr. M. M. Gupta, Dr. S. R. Kulkarni, Dr. V. V. Shukla(CIIIT)aboutthedepartment and allied activities sinceinception. The faculties appealed to the alumni to encourage and motivate the current students.Also, the alumni were ready to Mentor the present students of the department. Overall the meet was successful and fruitful results of the same will be seen in nearfuture.

Following Faculty Members were also present in the alumni meet.

Dr. G. R. Nikhade, Prof. S. A. Patil, Dr. A. K. Jha, Dr. (Mrs.) Swati D. Moghe, Dr. (Mrs.) Pranjali S. Deole, Dr. A. D. Urade, Prof. B. C. Bissa, Prof. S. S. Deshmukh and Prof. N. P. Gudadhe.

The meet concluded at 4 pm with a maximum participation of 75. The event was compared by Mr. Vidit Tambi and Mr. Mayank Khandelwal, Students of Mechasso and the vote of thanks was proposed by Miss. Amisha karemore.

Reflection

Dr. K. N. Agrawal , Head of Mech Engg. addressing the alumni

Listof Alumniwho hadshared thoughts intheAlumni Meetheldon 5thFeb. 2022

S.N.	Name of Alumni	Batch	Present Designation	Present Employment
1	Dushyant Shesh	2013	Staff Pilot	Indian Navy
2	Nandan Dixit	2013	Consultant	Cognizant Consulting
3	Gaurav Deshmukh	2013	R&D System Integrator	ASML Eindhoven, Netherlands
4	Shrijeet Joshi	2013	Assistant Commandant	Indian Coast Guard, Ministry of Defence
5	Akshay Deshmukh	2013	Vice President	Pharmeasy
6	Saurabh Motiwala	2014	Renewable Energy Consultant	International Finance Corp.- World Bank Group
7	Anand Khare	2014	Senior Executive	SGRE
8	Ankit Anand	2014	Delivery Manager	Ernst & Young
9	Gautam Singh	2014	Business	Believers Academy
10	Mohit Kathoke	2014	Capital markets/ BFSI Sr. Consultant	Accenture Strategy & Consulting
11	Prasad Rathi	2015	National Key Account Manager	Udaan
12	Vaibhav Bajpayee	2015	Senior Associate Consultant	Infosys
	Other than above, the following alumni were also present in the meet			
13	Kunal Shrivastava	2013	E-commerce Analyst	Tiger Companies
14	Shailesh Tripathi	2013	BI Consultant	Amdocs
15	suyash shukla	2013	QA technical lead	Valtech GmbH

S.N.	Name of Alumni	Batch	Present Designation	Present Employment
16	Eeshan Hamirani	2013	Asst Manager	Union Bank of India
17	Venkat Singhal	2013	Business Analyst	Amazon
18	Saurabh S. Chitlange	2013	IES Officer	Ministry of Defence
19	Ankit Agrawal	2013	Manager	Sonu Monu Agro Pvt Ltd
20	Sughosh Deshmukh	2014	Engineer	Mercedes Benz RD India
21	Dinesh Singh	2014	Technical Specialist	Continental AG
22	Sharad Kulhari	2014	Pilot	Indian Air Force
23	Niharika Wankhede	2014	Assistant Manager	State Bank of India
24	Gautam Singh	2014	Business	Believers Academy
25	Nirav Babariya	2015	IT Analyst	TCS
26	Abhay Singh	2015	Senior Manager	Shadowfax Technologies
27	Vaibhav Bajpayee	2015	Senior Associate Consultant	Infosys

Conference, STTP and Guest Lectures organized in Department

Sr. No.	Conference/STTP/ Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Process Monitoring and Automation	Tanmay Swaroop, Project Manager ISUZU Trucks, Japan	2 Hours	25th January 2022

Students' Corner

Student Achievements

Team BTMS from Department of Mechanical Engineering of Shri Ramdeobaba College of Engineering, Nagpur has qualified for the grand finale of KPIT SPARKLE 2022 #KPITSparkle2022#MakeASwitch by marking their presence in the Top 26 teams across India. The theme of the event is Mobility and Energy for the Future and is organized by KPIT Technologies Ltd. Pune. KPIT Sparkle is a platform that connects budding technology entrepreneurs with the incubation ecosystem. All over India, total 1320 teams (about 30000 participants) had registered for the challenge, 445 have qualified for the quarter-final, 100 teams were selected for the pre-finale and now 26 have reached the grand finale.

The team is lead by Ms. Pranjali Tete, Ph.D. Research Scholar, and Mr. Puneet Kedar (PG research scholar) of Dept. of Mechanical Engineering and it is mentored by Dr. M. M. Gupta (HoD, Industrial Engg.) & Dr. Sandeep Joshi (Asst. Professor, Mechanical Engg.) RCOEM Nagpur.

The team is working on the "Cooling arrangement for cylindrical cells of the battery pack" This project focuses on the development of efficient battery thermal management systems for lithium-ion batteries used in electric vehicles. The idea of this innovative project has been published in Indian Patent Journal in september 2021.

This project idea has also been selected for the incubation ready category for which the funding can be received under the incubation schemes of KPIT.

Team BTMS during Grand Finale of KPIT Sparkle 2022 at Pune

New Facility Development

Concentrated Solar thermal (CST) Facility at RCOEM Nagpur

India is on its way to become a 'Net Zero' country; according to the India's 'Panchamrit' gift to the United Nations Conference of Climate Change (COP26), which says we have committed to meeting 50% of the country's energy demands with renewable energy sources by 2030. It is our responsibility to contribute in every way possible to demonstrate the nation's commitment.

Higher education institutions have been identified as a critical pillar in the growth of countries. RCOEM Nagpur, as one of Central India's most prestigious higher education institutes, has recognised the need for research and development as well as awareness regarding renewable energy technologies. As a result, the institution is working diligently to create renewable energy facilities on campus for utility, demonstration, training, and research. Our current focus is on the use of solar energy, including solar photovoltaic and solar thermal systems. RCOEM has established an excellent Concentrated Solar Thermal (CST) system research facility on campus, in addition to a 460 kWp solar photovoltaic plant.

Apart from harnessing solar energy for direct electricity generation, usage of solar heat for thermal applications is another promising option. Around 50% of total energy consumed in India is used for heating applications, which include community cooking, process heat, and space heating and cooling in industrial, institutional, and commercial establishments. The heating applications are mainly classified as low temperature (below 800C), medium temperature (up-to 3000C) and high temperature (above 300 0C). Solar collectors of the non-concentrating type are well suitable for low temperature applications, while solar concentrators are used for medium and high-temperature applications.

Recognizing the significance of future research and knowledge dissemination about medium temperature solar thermal systems a state-of-the-art IOT-enabled and completely automatic research facility for a Concentrated Solar Thermal (CST) system has recently been established on the RCOEM Campus.
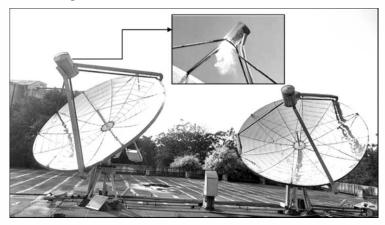
The research facility consists of two parabolic-dish solar concentrators, each with a 16-square-meter aperture area and a carefully designed helical coil cavity receiver to maintain the concentration ratio above 300. The dish collectors, along with the tracking gears and motors, are positioned on the rooftop of the Hostel mess on campus, using a specifically designed tripod type foundation. The dish collectors are made of fibre reinforced plastic (FRP) material and highly reflective anodized aluminium sheets to reduce the total weight of the system and auxiliary power usage. As a result, the 4 x 40 W PMDC motors can balance the entire tracking system while providing enough torque and rpm. To reduce convective heat losses, the receiver and working medium circuit are insulated with light resin bonded (LRB) Rock wool material. The dish collectors have a fully automatic Aurdino-based two-axis tracking system that tracks the direction of the sunrays so that all captured solar radiation must concentrate at the collector's focal point.

The entire system is fully automatic and controlled via an IoT-enabled graphical user interface (GUI). There is adequate online data monitoring capability in place, which is used to monitor the plant's live performance via a specifically built data acquisition system and IoT interface. During non-cloudy weather, the temperature at the receiver comfortably rises up to 200 degrees Celsius.

A high temperature inline vertical pump, a 300 litre stainless steel accumulator with a built-in coiled tube heat exchanger, expansion tank, pressure switches, a 2 HP air compressor, and two direct sparged stainless steel cooking vessels are also included in the system. The installed system is set up in such a way that researchers can use the entire 32 square metre collecting area or each individual dish collector for any comparative study.

The project coordinators Dr. Sandeep Joshi and Dr. Vishal Shukla of Department of Mechanical Engineering further informed that the research facilities will benefit undergraduate, postgraduate, and doctoral research students on campus. Some of the current research efforts include using CST to generate pressurized hot water for cooking and other applications, using collected heat in vapour absorption refrigeration (VAR) system, development of efficient thermal storage units and more.

RCOEM Nagpur has self-funded the entire project. The project coordinators have expressed their heartfelt gratitude to the college management and Principal- RCOEM Nagpur for their thoughtfulness in fostering a sustainable research culture on campus.

Concentrated Solar thermal (CST) Facility at RCOEM Nagpur

Demonstration of RCOEM CST plant to the students of other colleges and schools

Visit of Bhavan's Bhagwandas Purohit Vidya Mandir Nagpur to RCOEM CST Plant

Visit of Nagpur Institute of Technology, Nagpur to RCOEM CST Plant

DEPARTMENT OF CHEMISTRY

Faculty Corner

Awards received by Faculty of department

1. Dr. Avinash Baharati, HOD, Chemistrty Department received Performance Excellance Award for organizing Webinar series by Indian Society for Analytical Scientists (ISAS) Headquarters, BARC, Mumbai During 75th Year Celebration of India's Independence, 10-12th March 2022

2. Dr. Avinash Baharati, HOD, Chemistrty Department received Award of Excellence in international conference organised by D. R. B. Sindhu Mahavidyalaya, Nagpur and Indian Society for Analytical Scientists (ISAS) Nagpur Chapter, 25th-26th March 2022

3. Dr. C. P. Pandhurnekar, Assistant professor, Chemistry Department received Performance Excellance Award for organizing Webinar series by Indian Society for Analytical Scientists (ISAS) Headquarters, BARC, Mumbai During 75th Year Celebration of India's Independence, 10-12th March 2022

4. Dr. C. P. Pandhurnekar, Assistant professor, Chemistry Department received Award of Excellence in international conference organised by D. R. B. Sindhu Mahavidyalaya, Nagpur and Indian Society for Analytical Scientists (ISAS) Nagpur Chapter 25th-26th March 2022

5. Dr. Priti Mangrulkar Assistant professor, Chemistry Department received Performance Excellance Award for organizing Webinar series by Indian Society for Analytical Scientists (ISAS) Headquarters, BARC, Mumbai During 75th Year Celebration of India's Independence, 10-12th March 2022

6. Dr. Meenal V. Joshi Assistant professor, Chemistry Department received Research Excellence Award for Research in international conference organised by D. R. B. Sindhu Mahavidyalaya, Nagpur and Indian Society for Analytical Scientists (ISAS) Nagpur Chapter 25th-26th March 2022

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Dr. A. V. Bharati	STTP on Conservation of Energy, Water and Environment- Present and Future	7-11 March	Kavikulguru Institute of Technology nd Science
2	Dr. Sanjogta Meshram	Integrated Development of Science and Technology for the Sustainable Development.	28th of Feb 2022	Santaji Mahavidyalaya, RSTM, Nagpur University

Publications

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
1	Dr. S. M. Meshram	Esterification Study of Some Heterocyclic Acids in Solvent Free Condition	International Conference on New Horizons and Trends in Chemical Sciences ICNHTCS-2022	25th-26th March 2022	--	--	--
2	Dr. C. P. Pandhurnekar	Advances in Green Chemical approach of one pot microwave assisted organic synthesis	International Conference on New Horizons and Trends in Chemical Sciences ICNHTCS-2022	25th-26th March 2022	--	--	--
3	Dr. C. P. Pandhurnekar	Uraria picta whole plant extract mediated biosynthesis of copper oxide nanoparticles and its characterization	International Conference on New Horizons and Trends in Chemical Sciences ICNHTCS-2022	--	--	--	--
4	Dr. S. S. Butoliya	Synthesis, characterization and ion exchange studies of 2,4 DABHOF Copolymer	International Conference on New Horizons and Trends in Chemical Sciences ICNHTCS-2022	25th-26th March 2022	--	--	--
5	Dr. S. S. Butoliya	Sensitization of paragallol red in the presence of cetylpyridinium bromide for microdetermination of $Gd3+$, $Tb3+$ and $Lu3+$	International Conference on New Horizons and Trends in Chemical Sciences ICNHTCS-2022	25th-26th March 2022	--	--	--
6	Dr. Priti Mangrulkar	Efficient Co-MOF/ CNT based symmetric Supercapacitor for high performance electrochemical application	International Conference on New Horizons and Trends in Chemical Sciences ICNHTCS-2022	25th-26th March 2022	--	--	--

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
7	Dr. S. L. Mudliar	Novel materials for removal of metals from waste waters	International Conference on New Horizons and Trends in Chemical Sciences ICNHTCS-2022	25th-26th March 2022	--	--	--
8	Dr. Meenal V. Joshi	Chitosan templated Ce-doped mesoporous titania for methyl orange photoreduction	International Conference on New Horizons and Trends in Chemical Sciences ICNHTCS-2022	25th-26th March 2022	--	--	--

STTP/FDP/other Training Attended by Faculty

S. N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
1	Dr. Sanjogta Meshram	8 week FDP course Accreditation of Undergraduate Engineering Programme	31 Jan 2022 to 31 March 2022	NITTR, Bhopal Online
2	Dr. Suraj Butoliya	24th Refresher Course in Chemistry (IDC)	11-01-2022 to 24-01-2022	UGC-Human Resource Development Centre Devi Ahilya Viswavidyalaya, Indore
3	Dr. Meenal V. Joshi	Mind Control: Managing Your Mental Health During COVID-19	4 weeks course completed on 15 Feb 2022	Coursera

Departmental Activities

Conference, STTP and Guest Lectures organized in Department

Sr. No.	Conference/STTP/ Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Industry Expert Talk on Water Treatement for Thermal Power Plant boilers and Potable Water	Dr. Surjyoti S. Bagchi, Dr. General Manager-Chemistry and Environment, VIPL-Reliance Power, Butibori, Nagpur	2 hrs	21/01/2022

Sr. No.	Conference/STTP/ Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
2	Guest Lecture on " Plastic Pollution: Impact on Climate, Environment and Health"	Dr. V. Balaram Former Emeritus Chief Scientist and Head, NGRI, Hyderabad	2 hrs	06/02/2022
3	Expert talk" Nanomaterials and its applications"	Dr. Tajendra Kumar Gupta, Amity Institute of Applied Sciences, Amity University Noida-201313	1 hrs	08/02/2022

DEPARTMENT OF HUMANITIES

Faculty Corner

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Dr. V. H. Asudani	What next after graduation and post-graduation- Preparation for career after formal education	29th January 2022	Somaiya Vidyavihar University, Mumbai
2	Dr. V. H. Asudani	Effective communication skills	11th February 2022	xTag Services Pvt.Ltd.
3	Dr. V. H. Asudani	Career in UPSC and MPSC	16th to 18th February 2022	R.K.Talreja College of Arts, Science and Commerce.
4	Dr. V. H. Asudani	Training on Motivation	2nd to 5th March 2022	Government Polytechnic, Nagpur.
5	Dr. Akanksha Deshpande	Orientation to Group Discussion	17th February 2022	EDT Dept., RCOEM
6	Pratishruti Singh Agarwal	Letter Writing	15/01/2022, 23/01/2022, 29/01/2022 and 6/02/2022	Shri Mathuradas Mohota College of Science, Nagpur

Publications

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
1	Dr. V. H. Asudani	--	Chapter in Edited book Literary Terms: Key concepts for beginners	2021 but received in Feb 2022	978-93-91553-70-8	--	N/A
2	Dr. M. R. Seth	--	Chapter in Edited book Literary Terms: Key concepts for beginners	2021 but received in Feb 2022	978-93-91553-70-8	--	N/A
3	Dr. V. H. Asudani	Sole Author	Beyond Fragmentation	2021 but received in Feb 2022	978-93-91333447	--	--
4	Jasleen Rihan & Dr. Akanksha Deshpande	Activity Based Module for Training Engg. Undergraduates in Time Management	International Journal for Research in Applied Science Engineering Technology.	March 2022	2321-9653	10.222 14, Vol. 10, Issue III	Other. Impact Factor 7.429

STTP/FDP/other Training Attended by Faculty

S. N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
1	Dr. Akanksha Deshpande	FDP on Teaching –Learning Methods: From Micro-Teaching to Peer Learning."	One Week-31st January- 6th February 2022	Teaching Learning Centre, Ramanujan College University of Delhi.
2	Dr. Akanksha Deshpande	Udemy course Online – "100% Official Certified CBT Practitioner –iGCLC Certified	17 hours – February 24, 2022	Udemy , iGCLC Certification
3	Jasleen Rihan	FDP on Teaching –Learning Methods: From Micro-Teaching to Peer Learning."	31st Jan to 6th Feb 2022	Ramanujan College, University of Delhi
4	Pratishruti Singh Agarwal	FDP on Design, Develop and Deliver Online Courses	31/01/2022 to 4/02/2022	Gondwana University, Gadchiroli
5	Sonal Trivedi	FDP on Teaching –Learning Methods: From Micro-Teaching to Peer Learning."	One Week-31st January-6th February 2022	Teaching Learning Centre, Ramanujan College University of Delhi.

On the occasion of International MotherTongue Day,21stFebruary 2022, Readers'Reverie. Literary club conducted an event called "Matrubhasha Diwas-GarvHai.It was an Intra-college level event, open for students of all years at RCOEM. The form for registration was circulated to the college students on 14thFebruary,and we received a total of 40responses.

Marubhasha Diwas-GarvHai, was conducted on Sunday the 20thof February and consisted of two competitions,'BoloApniBoli'an extempore competition in one's mother tongue and'KalpanaAurVichaar',aCreative submission competition.For the former,the Club conducted an online meet from 4:30pm to 6:00pm where each participant spoke in their mother tongue,on topics given to them through draw of lots and 4 winners were declared.An external judge was invited ,MrAjinkya Bhasme,a best selling author and social media figure.

The submissions for 'Kalpana Aur Vichaar' were taken via Google form and 3winners were chosen, their creative work was posted on the Instagram Page of Readers' Reverie Literary Club. Advika Mitre, Raman Khatod, Gargi Singh and Ishita Jaiswal were adjudged as the 1st, 2nd, 3rd and consolation prize winners in the extempore competition. Riddhi Hinge, MuskanTekchandani and HimangiPilkawar were adjudged as the 1st, 2nd and 3rd prize winners in the creative submission competition.

Prof.Pratishruti Singh Agarwal and Mr.Ajinkya Bhasme spoke to the participants. Mitaly Keshwani compered the programme, Mrudani Deosthali conducted the competition and Devang Baheti proposed the vote of thanks. The recordinglink:

https://tldv.io/app/meetings/6212263e4e19720014eb667f

DEPARTMENT OF MATHEMATICS

Faculty Corner

Publications

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
1	N. M. Hulke, G. P. Singh , B. K. Bishi	Bianchi-1 cosmology with generalised chaplygin gas and periodic deceleration parameter	Indian journal of Physics	Published (11 march 2022)	ISSN 0973-1458	https://doi.org/10.1007/s12648-022-02315-1	SCIE

STTP / FDP / Training Attended by Faculty

S. N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
1	Dr. R. G. Ghumde	(TEW) Differential equations and Mathematical modelling	7days / 14 Feb to 27 Feb 2022	Department of Mathematics IIT Bombay and TIFR
2	Dr. P. O. Bagde	Workshop on Outcome based Assessment	5days / 21/02/22 to 25/02/22	National Institute of training and research, Bhopal
3	Dr. J. H. Rai	FDP on Research Methodology and Effective Tools for Academic & Research Documentation	5days / 7/3/22 to 11/3/22	Sri Sivasubramaniya Nadar college of Engineering, Chennai
4	Mrs. M. S. Patne	FDP on Research Methodology and Effective Tools for Academic & Research Documentation	5days / 7/3/22 to 11/3/22	Sri Sivasubramaniya Nadar College of Engineering, Chennai
5	Mrs. P. A. Saoji	FDP on Research Methodology and Effective Tools for Academic & Research Documentation	5days / 7/3/22 to 11/3/22	Sri Sivasubramaniya Nadar College of Engineering, Chennai

DEPARTMENT OF PHYSICS

Faculty Corner

Publications

S.N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
1	Dr. Shilpa Kulkarni	Thermal Expansion of a Sub-Micrometer Thin Film Detected by Fiber Optics	Book Chapter in the book: Novel Perspectives of Engineering Research Vol. 7	14-2-2022	ISBN 978-93-5547-231-1 (Print) ISBN 978-93-5547-239-7 (eBook)	--	--

STTP/FDP/other Training Attended by Faculty

S.N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
1	Dr. Shilpa Kulkarni	One Week Workshop Intellectual Property Rights (With Reference to "Patents – Procedures and Legalities")	03-08 January 2022	RTMNU

DEPARTMENT OF PHYSICAL EDUCATION

DEPARTMENTAL ACTIVITY

Department of Physical Education Organizes Badminton (M & W), Basketball (M & W), Football (M), Cricket (M & W), Volleyball (M & W) inter branch tournaments maintaining all the covid protocols, this offers students an opportunity to play their favorite game/sport on both a competitive and recreational level. All branches participated in the inter branch Tournament. Fixtures were done offline where Sports Secretary, Joint Sports Secretary along with sports secretary of each branch were present.

INTER BRANCH BASKETBALL (M & W) 2021-22

An Inter Branch Basketball tournament for Women was organized by Department of Physical Education from 21st February to 24th February 2022 on the College Basketball Court. Total 07 branches participated in the Inter Branch Tournament. The women's Final match was played between CSE and IND Branch on 24th Feb 2022.

PIC 1: INTER BRANCH BASKETBALL (W) FINAL 2021-22

PIC 2: INTER BRANCH BASKETBALL (M) FINAL 2021-22

An Inter Branch Basketball tournament for Men was organized by Department of Physical Education from 16th March to 21st March 2022 on the College Basketball Court. Total 09 branches participated in the Inter Branch Tournament. The men's Final match was played between CSE and IND Branch on 21st March 2022. Detailed results were as under:

INTER BRANCH BASKETBALL 2021-22

	1st Place	2nd Place	3rd Place	No. of Teams	No. of Participants
MEN	IND	CSE	MECH	09	77
WOMEN	CSE	IND	EN	7	49

INTER BRANCH FOOTBALL 2021-22

An Inter Branch Football tournament for Men was organized by Department of Physical Education from 21st February to 24th February 2022 on the College football Ground. Total 11branches participated in the Inter Branch Tournament. The men's Final match was played between MECH and CIV Branch on 24th Feb 2022.

PIC 3: INTER BRANCH FOOTBALL(M) 2021-22

INTER BRANCH CRICKET (W) 2021-22

An Inter Branch Cricket tournament for Women was organized by Department of Physical Education from 16th march to 21st March2022 on the College Ground. Total 10branches participated in the Inter Branch Tournament. The Women's Final match was played between EN and EC Branch on 21STMarch 2022.

WOMEN'S CRICKET IN ACTION

INTER BRANCH CRICKET (W) 2021-22

	1st place	2nd place	3rd place	No. of teams	No. of participants
MEN	EN	EC	MBA	10	91

INTER BRANCH VOLLEYBALL (M & W) 2021-22

VOLLEYBALL (M) FINAL MATCH CES Vs MBA.

The Inter Branch Volleyball Tournament for boys was held between 21/02/22 to 5/03/22. The tournament was organized by Department of Physical Education, RCOEM. A total of 11 teams participated in the event. The number of players participated was 107. The finals

VOLLEYBALL (M) FINAL MATCH CES Vs MBA.

was played on 5/03/2022 between CSE AND MBA Department.

The Inter Branch Volleyball Tournament for Women by Department of Physical Education, RCOEM was held between 21/02/22 to 28/03/22. A total of 10 teams participated in the event. The number of players participated was 72. The finals were held on 28 /02/2022 and details of the tournament were as follows:

INTER BRANCH VOLLEYBALL (M) 2021-22

	1st place	2nd place	3rd place	No. of teams	No. of participants
MEN	CSE	MBA	EN	11	107
WOMEN	EC	MBA	MCA	10	72

VOLLEYBALL (w) FINAL MATCH EC Vs MBA

VOLLEYBALL (w) FINAL WINNER: EC TEAM

INTER BRANCH CRICKET (M) 2021-22

The Inter Branch Cricket Tournament for Men was organized by the Department of Physical Education, RCOEMfrom 23/03/2022 to 29/03/2022. A total of 11 teams participated in the event. The total number of

INTER BRANCH CRICKET FINAL 21-22 : EC Vs IT

INTER BRANCH CRICKET FINAL 21-22 : EC Vs IT

players participated was 172. The finals were held on 29/03/2022, during the final match Prof. Prasheel Thakre, Prof.Manoj Sarwe faculty of Electronics and Comm. Engineering were present. Details of the Tournament is as follows

INTER BRANCH CRICKET (M) 2021-22

	1st place	2nd place	3rd place	No. of teams	No. of participants
MEN	CSE	MBA	IND	11	172

All India/West Zone University Representation:

This Session 6 students from the college represented RTM Nagpur University team in AIU

NAME	BRANCH	YEAR	SEM	GAME	LEVEL	Venue/Date
KUNAL SINGH THAKUR	EN	III	VI	HOCKEY	WEST ZONE	1-6 March 22 Gwalior
SHARVANI SACHIN BAGDAI	IND	II	IV	LAWN TENNIS	WEST ZONE	24-26 Feb 22, ITM UNIV Gwalior
NISHIL BHOJRAJ BANTE	MAB(I)	III	VI	ARCHERY	ALL INDIA	24-28 Feb 22, CHANDIGARH
ANNANYA DEVENDRA TRIVEDI	B.TECH	I	I	ARCHERY	ALL INDIA	24-28 Feb 22, CHANDIGARH
AMEYA A. SHRIVASTAVA	CIVIL	III	VI	CHESS	WEST ZONE	25-27 March 22, JAIPUR
ARYAN D. DEOGADE	B.TECH	I	I	CHESS	WEST ZONE	25-27 March 22, JAIPUR
SHRADDHA ALEWAR	B. TECH	I	I	KARATE	ALL INDIA	14-17, March Kurukshetra

National Youth Day:

To remember and honor the principles of Swami Vivekananda, a webinar was organized by the NSS Unit of Shri Ramdeobaba College of Engineering and Management. The event commenced at 04:30 pm and a total of 75 participants attended it. The topic for the webinar was "Revisiting the teachings of Swami Vivekananda and channelizing youth power for nation building". The speaker for the session was Dr. Sagareeka Roy Bhatia, an author, a parenting coach and a lead auditor for educational institutions. While addressing the participants, she reflected light on the teachings of Swami Vivekananda and their importance for the youth, explaining their role in nation building.

Republic Day

As we celebrate AZADI KA AMRIT MAHOTSAVthis year, recognizing the contribution and importance of teachers, Shri Ramdeobaba College of Engineering and Management commemorated the 73rd Republic Day, emphasizing on the theme, "RASHTRA NIRMAN ME GURUO KA YOGDAN". The celebrations commenced at 09.00 am with a flag hoisting ceremony by the hands of honorable chief guest Shri Govindlalji Agrawal (Vice Chairman, Executive Committee, RCOEM) in the presence of Shri Bhagwandasji Daga Member of Executive Committee), Dr. R.S. Pande Sir (Principal, RCOEM),

(

Mega Blood Donation Campaign:

The NSS Unit of Shri Ramdeobaba College of Engineering and Management, Nagpur organized a Mega Blood Donation Campaign in order to serve the people in need and spread its awareness. The event took place at the main auditorium of our esteemed college in collaboration with Dr. Hedgewar Blood Bank, Nagpur on 25th February, 2022. The students, the teaching and the non-teaching staff of the college participated in the camp in a huge quantity. The event concluded at 05:00 pm and the total number of donations were recorded 446 Unit. Also, no casualties occurred during the whole campaign. A total of 83 volunteers were present in the camp. It is a proud moment for the NSS Unit, as this was the largest Blood Donation Camp organized in the past two years in Nagpur.

PRERNA 14.0(21/03/2022 to 28/03/2022)

PRERNA is a week-long socio-cultural camp curated by NSS UNIT, RCOEM. Resuming the legacy of Event, PRERNA 14.0 was as grandeur as its predecessors. PRERNA gives an experience worth cherishing to technical students and awakens within them a need to understand and fulfill their duties and responsibilities as citizens of the society to the best of their abilities. This week-long event began from 21st March 2022. This was

the first post-Covid mega event of the college with an aim to create social awareness among the youth by involving them in various activities and events. Inauguration ceremony was held on 22nd march at the open-air theater in RCOEM campus, Nagpur. The event started at 12:00 noon which marked the presence of the chief guest for the event, Mr. Piyush Boinwar (Founder of AGRESAR Foundation), Dr. Rajesh Pande (Principal, RCOEM), faculties, the NSS Unit volunteers and the college students.

PRERNA 14.0 Includes different Events:

JUNOON : a socio-cultural event which encourages and inspires specially-abled children to showcase their passion, courage and talent by performing various art formsThis year, JUNOON was conducted in both the modes - online and offline.

The children with special abilities from five different schools participated in the event enthusiastically. The schools were - SVK Shikshan Sanstha, Government School of Deaf and Dumb, New Life Centre School, Prerna Special School and Sant Viktubaba School of Mentally Retarted. The spellbinding performances included singing, dancing and a fashion show. Sant Viktubaba School performed a special skit on the topic 'Early Intervention'. Later, all the participants were appreciated with gifts and certificates and the event was concluded with a vote of thanks.

House of Laws:

This year, the NSS Unit of Shri Ramdeobaba College of Engineering and Management took the initiative to introduce Indian democracy and laws to engineering students through an event called "House of Laws", conducted under PRERNA 14.0. The event stretched over two days and consisted of four rounds, each based on a pillar of democracy. Around 81 teams, of four participants each, participated in the event. The chief guest for the final round was Adv. Nandesh S. Deshpande (Assistant Solicitor General of India, Bombay Highcourt, Nagpur Bench). He was facilitated with a memento and a sapling by the hands of Prof. Saket Kanetkar.

PRAYAS

It was a time-limited event with government financing to empower youth, where all the participants were given problem statements based on the real-world problems in villages to boost their problem-solving and innovation skills. The event stretched over three days and consisted of three rounds. We felt honored to have with us the Founder and CEO of The Imperial Lubricants (TIL), Mr. Apurv Dey and the Director IT Tech of AceTech Ventures und teams of four participants each participated in the event.

REFLECTION:

An event named "reflection" was organized on 24/03/22. It started at around 11:00 am.The event included an exhibition of paintings, photographs, photo stories, and posters. The theme of the event was "Indian Sign Language".The guest and the judge of the event was Mrs. Jyoti Santape, Special Educator at deaf and dumb school, Nagpur. The judge also interacted with the participants and appreciated the efforts of the team. In this event, A total of 300 students participated enthusiastically. Out of the total participants, the best 3 winners were awarded.

Health Check-Up Camp:

The camp was exclusively organized for the teaching and the non-teaching staff of the college. The camp was held in the main auditorium of the college. Arrangements for free dental check-up, eye check-up, blood pressure, diabetes, ECG and BMI check-ups were made. The unit collaborated with three hospitals, namely "Advance Dental Care", "Vision Express", and "Rhythm Heart and Critical Care".A total of 63 staff members and 38 volunteers benefited from the camp.

Gram Sampark:

Under Prerna 14.0, in which more than 80 NSS volunteers and two faculty members visited a village named Muradpur, for community development and to raise awareness amongst the villagers. Muradpur is a village located at approximately 50 Km from Nagpur in Umred Block,

NSS team interacted with the villagers, attempting to comprehend their problems and put solutions in place. Several activities were organized for the village development, including a health care campaign in collaboration with Mother and Children Care Hospital, Nagpur for village children, a village cleanliness drive and the painting of village walls with positive slogans. A skit was also performed by the NSS team promoting awareness related to hygiene in the locality. The skit was performed in Marathi in order to ensure the message reached the masses. The NSS team also contributed around 140 blankets to the villagers. Later, the Village Sarpanch appreciated the efforts of NSS UNIT.

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Dr. Amit Anurag	Health and Wellness Management	07/04/22	Ballarpur Seva Samiti, Ballarpur, Mohsinbhai Zaweri Mahavidyalaya Desaiganj (wadsa) Gadchiroli, Maharastra - (Affiliated by Gondwana University, Gadchiroli) department of physical education & internal quality assurance cell

DEPARTMENT OF COMPUTER APPLICATION

Faculty Corner

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Prof. Satyajit S Uparkar	Application of Mathematics in Engineering	14/03/2022	Priyadarshini College of Engineering, Nagpur

Publications

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/ Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
1	Dr. Sachin Upadhye, Prof. Satyajit Uparkar	A Comparison of several platforms for creating secure blockchain based applications	International Conference on Innovation and Modernisation in Commerce, Science, Technology, Business Management, Leadership and Entrepreneuship (ICIMBL&E)	4-5 Feb. 2022	ISBN: 978-81-946772-3-9 (Book of Abstract)	--	--
2	Dr. Sachin Upadhye, Prof. Satyajit Uparkar	A Comprehensive Review on Privacy Protection platform for Crowdsourcing	International Conference on Innovation and Modernisation in Commerce, Science, Technology, Business Management, Leadership and Entrepreneuship (ICIMBL&E)	4-5 Feb. 2022	ISBN: 978-81-946772-3-9 (Book of Abstract)	--	--
3	Dr. Sachin Upadhye	Optimal Stacked Sparse Autoencoder Based Traffic Flow Prediction in Intelligent Transportation Systems	Book Chapter	Feb. 2022	ISSN 2198-4182 ISSN 2198-4190 (electronic)	https://doi.org/10.1007/978-3-030-94102-4	Scopus

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/ Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/ Other (index)
4	Dr. Sachin Upadhye, Satyajit S. Uparkar, Sakshi Oza, Izhan Anwarus, Sayeed Khan	Sensor-Based Techniques for Protecting Agricultural Crops from Animals and Fire	National Conference AGRESAR 2022	11-12 March 2022	--	--	--
5	Dr. Pravin Karmore, Prof. Satyajit S. Uparkar, Dr. Sachin D. Upadhye, Jaishree V. Khapre, Pooja D. Manmode, Monali P. Banerjee	Application of Data Analytics for a Non-Stationary Data Set	National Conference AGRESAR 2022	11-12 March 2022	--	--	--
6	Prof. Satyajit S. Uparkar, Prof. Aparna M. Gurjar, Dr. Sachin D. Upadhye, Pranjali P. Kadoo, Akanksha A. Sinha, Dhruvi N. Trivedi	Game Theory Optimization of the Two OTT Platform Competitors	National Conference AGRESAR 2022	11-12 March 2022	--	--	--
6	Prof. Satyajit S. Uparkar, Akrati P. Jain, Arshiya M. Pathan, Bhumika A. Lakhwani, Nisha G. Dubey	Application of Traveling Salesman Model for the Twelve Jyotrilingams of India	National Conference AGRESAR 2022	11-12 March 2022	--	--	--

STTP/FDP/Training Attended by Faculty
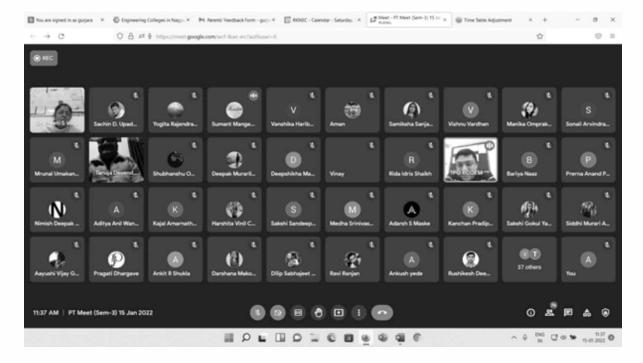
S.N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
1	Prof. Aparna Gurjar	STTP on 'Data Analysis Using Statistical Learning Techniques'	21st March – 26th March 2022	NPTEL, IIT Madras, Dept of Mathematics.
2	Dr. Sachin Upadhye	STTP on "Recent Trends of Machine Learning and Data Science"	17.01.2022 to 28.01.2022	College of Engineering and Technology, Akola, Maharashtra

Departmental Activities

Online parents- teachers meet was conducted by the Department of Computer Application on 15th Jan 2022 for Semester-3 students, 11:00 am onward.

Parents of around 65 students attended the meet during which, many of them interacted with the Head and faculty members of the Department.

Dr. Preeti Voditel, Head, Department of Computer Application, gave a short presentation about the various activities being conducted for a holistic development of the students. The parents were very appreciative of the steps being taken by the Department with respect to Academics, Internships and Training and Placement initiatives. Towards the end of the meeting, the parents were requested to fill a feedback form for getting their valued inputs. A total of 59 parents gave their responses to the online feedback form.

Parent of Sem-3 student interacting with the HOD, Dr.PreetiVoditel
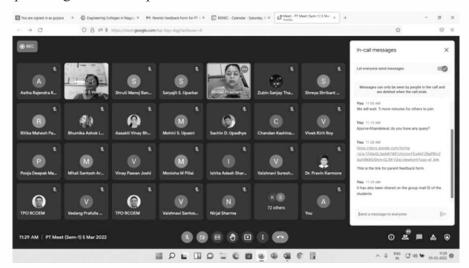
Semester-1

Online parents- teachers meet was conducted by the Department of Computer Application on 5th Mar 2022 for Semester-1 students, 11:00 am onward.

Parents of around 88 students attended the meet during which, many of them interacted with the Head and faculty members of the Department.

Dr.PreetiVoditel, Head, Department of Computer Application, gave a short presentation about the various activities being conducted for a holistic development of the students. The parents were very appreciative of the various steps being taken by the Department for the students' progress. Since this was the first interaction of the parents with the Department, there were many queries related to the placements, one year and six-month internship as well as the credit transfer scheme which was under the process of getting finalized. The Head of the Department patiently explained all the relevant aspects by addressing each parent's query individually. Towards the end of the meeting, the parents were requested to fill a feedback form for getting their valued inputs. A total of 57 parents gave their responses to the online feedback form.

Parent of Sem-1 student interacting with the HOD, Dr.PreetiVoditel

Conference, STTP and Guest Lectures organized in Department

Sr. No.	Conference/STTP/ Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Applications of Tableau in Data Sciencel Coordinated by: Prof. SatyajitUparkar	Mr. Sanket Joshi, Chief Technology Officer, Logicunlock Solutions Llp. Nagpur	2 Hour	05/03/2022
2	Data Collection Techniques and questionnaire Designing Coordinated by: Prof. Satyajit Uparkar	Poornima Dhobe, Associate Director-Biostatistics, Novartis, Mumbai	2 Hour	13/03/2022
3	Value added course: Aptitude Development Coordinated by: Dr.AbhijeetThakare	Manmath Deshpande, Aptitude Trainer	30 Hours	27 Dec 2021 to 18 Feb 2022

Students' Corner

Toppers List(Combined list of two shifts) if applicable

Sr. No.	Third Year (Fifth Semester)
1	KapilShravanChadhokar (9.86)
2	Himanshi Ajay Jain (9.8)
3	SwapnilDilipSelukar (9.68)

Student Achievements

S. No.	Name of Students	Event	Achievement	Date
1	Sakshi Oza, Izhan Anwarus Sayeed Khan, Pranjali P. Kadoo, Akanksha A. Sinha, Dhruvi N. Trivedi, Akrati P. Jain, Arshiya M. Pathan, Bhumika A. Lakhwani, Nisha G. Dubey, Jaishree V. Khapre, Pooja D. Manmode, Monali P. Banerjee	Paper Presentation in a National Conference	Research Paper presented in National Conference AGRESAR 2022	11-12 March 2022

Students in Higher Studies

Under the PRERANA scheme of AICTE, GATE sessions on various topics of Computer science were conducted. Experts from VNIT and IIIT, Nagpur delivered online lectures on various topics of computer science. Around 20 students of MCA final year attended these sessions. Prof.MandaUkey, Higher Education cell In-charge, MCA Dept coordinated this activity. A books distribution programme for GATE/GRE/TOEFL examinations was also organized under PRERANA Scheme on 25th March 2022. In this program, Principal, Dr.R.S.Pande distributed books to five students of MCA department registered under this scheme. Titles of these books were "A Handbook for Computer Science /IT Engineering Paperback – 1 GATE and 2650 MCQs: Practice Book: Computer Science & IT".

Photographs to be inserted

1. GATE books distributed to MCA students_1
2. GATE books distributed to MCA students_2
3. GATE books distributed to MCA students_3
4. GATE books distributed to MCA students-4
5. MCA Students registered in PRERANA scheme_5

Any other activity(s):

1. Four teams including fourteen students of MCA Semester -I, participated in research paper presentation competition in National Conference AGRESAR 2022 organised by Department of Management and Technology, RCOEM, dated 11-12 March 2022. Three teams presented their research study in domain of Data Analysis and one team presented on Sensor-Based Techniques for Protecting Agricultural Crops from Animals and Fire.

National Conference AGRESAR 2022

2. Eleven teams including seventy-two students of MCA Semester-III, presented their projects in virtual mode provided by HCL solution on 20th March 2022, in their Final Project Presentation, jointly conducted by Department of Computer Application and HCL solution under the AICTE sponsored Training program of Project Sunshine.

AICTE sponsored Training program Project Sunshine

3. Aditya Chaturvedi, an alumnus of the 2019 batch of the Department of Computer Application has been selected as Scientist-B in NIC and would be shortly taking over this new responsibility in Lucknow, Uttar Pradesh.This needs special mention because of the fact that Aditya suffers from a degenerative medical disorder called Spinal Muscular Atrophy. This condition makes it impossible for him to stand, walk, control his head movements or move his limbs. But never has he allowed this debilitating condition to overpower him. He has set an example for all of us with his dedication, ability to take up challenges and succeed against all odds with dignity. Dr. R. S. Pande, Principal RCOEM felicitated Aditya Chaturvedi on 28th Feb 2022 for his sterling achievement.

Reflection

DEPARTMENT OF MANAGEMENT TECHNOLOGY

Faculty Corner

Guest Lectures taken by faculty

Sr. No.	Name of Faculty	Topic of Guest Lecture	Date of Guest Lecture	Organizers of Guest Lecture
1	Dr Amir Khan	Product Mix & Marketing Strategies	07/01/2022	Vanamati, Nagpur
2	Dr Amir Khan	Assessing the Market Need and Demand: Realistic Versus Ideal; Short-Term Versus Long Term	09/03/2022	Vanamati, Nagpur
3	Dr. Vandana Gandhi	Financial Planning and Management of FPO	04/01/2022	Vanamati, Nagpur
4	Dr. Rajesh Vaidya	Organizational Change and Stress Management – Concept of Change with Relation to Stress	March 2022	Government of Maharashtra for Class 2 officers of Maharashtra Govt.
5	Dr. Rajesh Vaidya	Stressors and Types, Sources and Consequences of Stress, Relationship of Stress with Performance, Coping with Stress	March 2022	Government of Maharashtra for Class 2 officers of Maharashtra Govt.
6	Dr. Rajesh Vaidya	Leadership Leadership Theories and Styles Contemporary Roles of a Leader Women Leaders ,Cultural Differences In Leadership Title less Leader	March 2022	Government of Maharashtra for Class 2 officers of Maharashtra Govt.
7	CA Prashant Chhajer and Dr. Vandana Gandhi	Two Days Advanced Excel Training Program	February 2022	Rattan India Power Ltd.
8	CA Prashant Chhajer	Finance for Non-Finance	January 2022	ATAL FDP at Datta Meghe Institute of Management

Publications

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/Other (index)
1	Dr. Amir Khan, Dr. Shravan Chandak	Analysing the brand resonance amongst telecom subscribers in Nagpur City	International Journal of Public Sector Performance Management	Online: Dec. 2021 Indexing: Jan. 2022	ISSN (online): 1741-105X	https://doi.org/10.1504/IJPSPM.2022.119831, Vol.9,No.1-2	Scopus

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/Other (index)
2	Dr. Shravan Chandak, Dr. Amir Khan	Study of variables specific to online retail websites that impact purchase decision of consumers in central India	International Journal of Public Sector Performance Management	Online: Dec. 2021 Indexing: Jan. 2022	ISSN (online): 1741-105X	https://doi.org/10.1504/IJPSPM.2022.119831, Vol.9,No.1-2	Scopus
3	Prof. Anup Dhore, Dr. Amir Khan	Emerging Technologies In The Retail Industry	Journal of the Oriental Institute	March 2022	0030-5324	Vol.71, Issue.01, No.03, pp-143-149, January-March: 2022	UGC Care I
4	Prashant Chhajer, Vishal Mehta and Vandana Gandhi	"The Study of Mutual Funds for Retirement Planning"	Two days Online International Conference on the theme "Innovation and Modernization in Commerce, Science, Technology, Business Management, Leadership and Entrepreneurship"	February 2022	ISBN 978-81-946772-3-9	--	--
5	Kamna Choudhary and Vandana Gandhi	Merger Momentum Affecting Share Price: An Event Study on Indian Banking Sector	Two days Online International Conference on the theme "Innovation and Modernization in Commerce, Science, Technology, Business Management, Leadership and Entrepreneurship"	February 2022	ISBN 978-81-946772-3-9	--	--
6	Amit Hedau, Heena Vensiyani and Vandana Gandhi	COVID 19 Affecting the Sectors of Nifty 50 — An Event Study	AGRESAR 2022	March 2022	--	--	--

S. N.	Name of the Authors	Title of the Paper	Name of the Journal/ Conference/Book	Date of Conference/ Publication	ISSN/ ISBN	DOI, vol., Iss., pp	SCI/ Scopus/ ICI/Other (index)
7	Sayyam Banthia, Vishal Mehta and Prashant Chhajer	A Study of Factors Affecting the Scrip Returns in India	AGRESAR 2022	March 2022	--	--	--

STTP/FDP/other Training Attended by Faculty

S. N.	Name of Faculty	STTP/FDP/ Training Attended	Duration/ Date	Organizers of the event
1	CA Prashant Chhajer	Outcome Based Assessment	31st Jan 2022 to 4th Feb 2022	NITTTR, Bhopal
2	Dr. Vandana Gandhi			
3	Dr. Vishal Mehta			
4	Dr. Pritam Bhadade			
5	Dr. Amir Khan			

About RCOEM:

Shri Ramdeobaba College of Engineering and Management (RCOEM), Nagpur was established in 1984 by Shri Ramdeobaba SarvajaniK Samiti. An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Accredited by NAAC "A+" Grade.

- State of the art infrastructure with digitally equipped classrooms
- 125+ Recruitment partners
- 16+ acre Land, green campus with playground facility
- 4 decades of Academic excellence
- Global outreach with a student exchange programme with foreign Universities
- Most preferred college in central India
- Excellent placement record
- India Ranking of 119th by NIRF and 20th by India today
- 250+ highly skilled faculty with 17k active alumni network across the globe
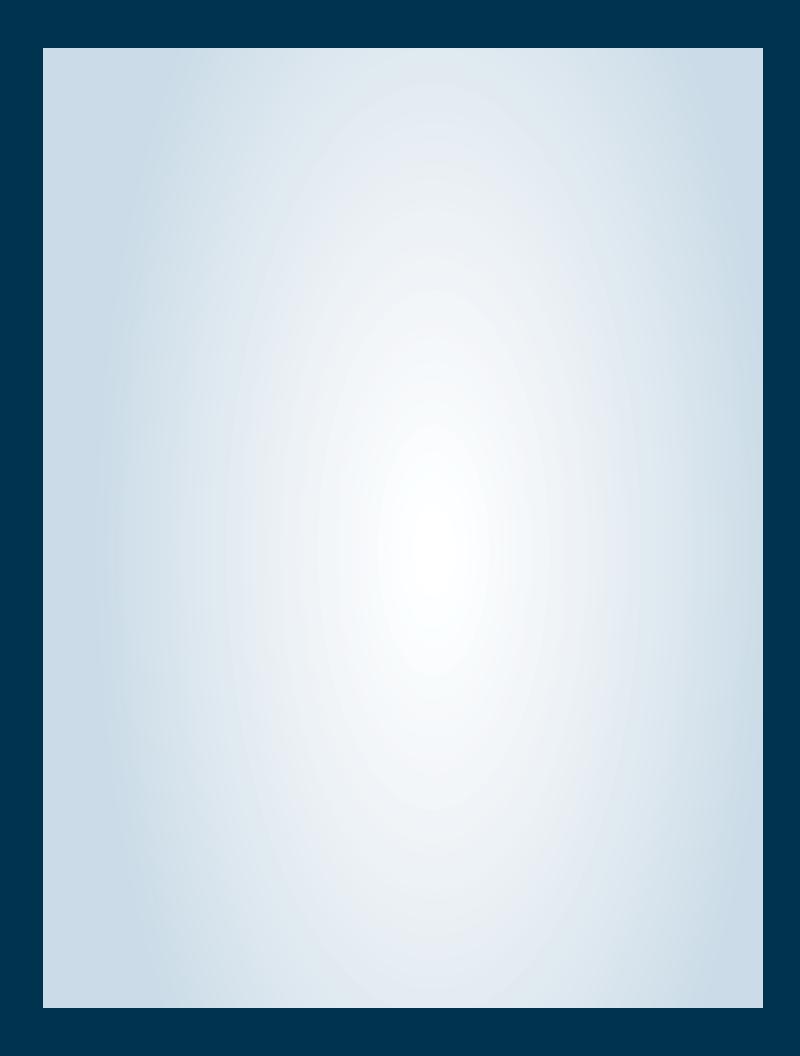- Incubation centre for Startups

About Department of Management Technology:

Department of Management Technology (DMT) is recognized as a place of learning, imparting management education of highest standard to meet the needs of the society. DMT has been rated 142nd by Business today All India B-School survey and a rating of AA+ by Careers 360th magazine survey for the year 2020 & 150 on 2021. It is also ranked 63 for future orientation as per MDRA Business today B-School Ranking of 2021.
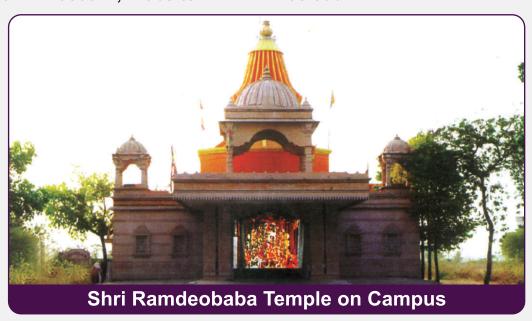
TEMPLE REPORT FOR JAN/FEB/MARCH 2022

DATE	EVENT	ACTIVITY
1/4/2022	DUJ	FLOWER DECORATION BY LOCAL ARTIST
		BHAJAN BY SHRI RAMDEOBABA BHAKT KIRTAN MANDAL
		ARTI AND DISTRIBUTION OF PRASAD
1/8/2022		BHAJAN BY SHRI RAMDEOBABA BHAKT KIRTAN MANDAL
1/9/2022	JAMMA	BABA'S JAMMA BY UJWAL KHAKOLIYA
1/11/2022	DASHMI	SUNDERKAND BY RAMDEOBABA BHAKT KIRTAN MANDAL
1/15/2022		BHAJAN BY SHRI RAMDEOBABA BHAKT KIRTAN MANDAL
		ARTI AND DISTRIBUTION OF PRASAD
1/18/2022		SUNDERKAND BY RAMDEOBABA BHAKT KIRTAN MANDAL
1/22/2022		BHAJAN BY SHRI RAMDEOBABA BHAKT KIRTAN MANDAL
		ARTI AND DISTRIBUTION OF PRASAD
1/25/2022		SUNDERKAND BY RAMDEOBABA BHAKT KIRTAN MANDAL
1/29/2022		BHAJAN BY SHRI RAMDEOBABA BHAKT KIRTAN MANDAL
		ARTI AND DISTRIBUTION OF PRASAD
2/2/2022	MAGH BABA KI BADI DUJ	BHAJAN BY SHRI RAMDEOBABA BHAKT KIRTAN MANDAL
		ARTI AND DISTRIBUTION OF PRASAD
2/3/2022		BHAJAN BY MAYANK SHARMA
2/4/2022		MATA KE BHAJAN BY SHRI RADHAKRISHNA MAHILA
		BHAJAN MANDAL
2/5/2022	BASANT PANCHMI	VIRAM DEV JI KA JANAMUTSAV BY DINESHJI SHARMA
		DHAMANGAON WALE
2/6/2022		GOPAL BAJAJ JI KE YAAD MEIN BHAJAN BY DIPALI AGRAWAL
		AND SANJAY RATHI
2/7/2022		PHOOLON KI HOLI / BHAJAN BY JAYA ACHARYA
2/8/2022	SUNDERKAND	SUNDERKAND BY RAMDEOBABA BHAKT KIRTAN MANDAL
2/9/2022		BHAJAN BY ABHAY TIWARI
2/10/2022		BHAJAN BY HARSHADA AGRAWAL/DIPALI AGRAWAL/
		SURAJ SHARMA
2/11/2022		BHAJAN BY SHRI RAMDEOBABA KIRTAN SANGAM
2/15/2022	SUNDERKAND	SUNDERKAND BY RAMDEOBABA BHAKT KIRTAN MANDAL
2/19/2022		BHAJAN BY SHRI RAMDEOBABA BHAKT KIRTAN MANDAL
2/22/2022	SUNDERKAND	SUNDERKAND BY RAMDEOBABA BHAKT KIRTAN MANDAL
3/1/2022	SUNDERKAND/MAHASHIVRATRI	SUNDERKAND BY RAMDEOBABA BHAKT KIRTAN MANDAL
3/4/2022	BABA KI DUJ	BHAJAN BY SHRI RAMDEOBABA BHAKT KIRTAN MANDAL
		ARTI AND DISTRIBUTION OF PRASAD
3/8/2022	SUNDERKAND	SUNDERKAND BY RAMDEOBABA BHAKT KIRTAN MANDAL
3/12/2022		BHAJAN BY SHRI RAMDEOBABA BHAKT KIRTAN MANDAL
		ARTI AND DISTRIBUTION OF PRASAD
3/15/2022	SUNDERKAND	SUNDERKAND BY RAMDEOBABA BHAKT KIRTAN MANDAL
3/17/2022	HOLI	ARTI HOLIKA DEHAN AND DISTRIBUTION OF PRASAD

Reflection
Newsletter

SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT, NAGPUR

Ramdeobaba Tekadi, Gittikhadan, Nagpur - 440013
Phone : 0712-2580011, Website : www.rknec.edu

Shri Ramdeobaba Temple on Campus

RCOEM
**Shri Ramdeobaba College of
Engineering and Management, Nagpur**

TEAM MEDIA EXPRESSION

EDITOR & COORDINATORS

Dr. Vandana Gandhi
Department of Management Technology

Prof. Vikas Gupta
Department of Electronics Engineering

Dr. Prachi Salodkar
Department of Electrical Engineering

Dr. Cynita Christy
Librarian

Newsletter Designing and Printing
New Shriniketan Printing Press, Nagpur

E-Newsletter
www.rknec.edu