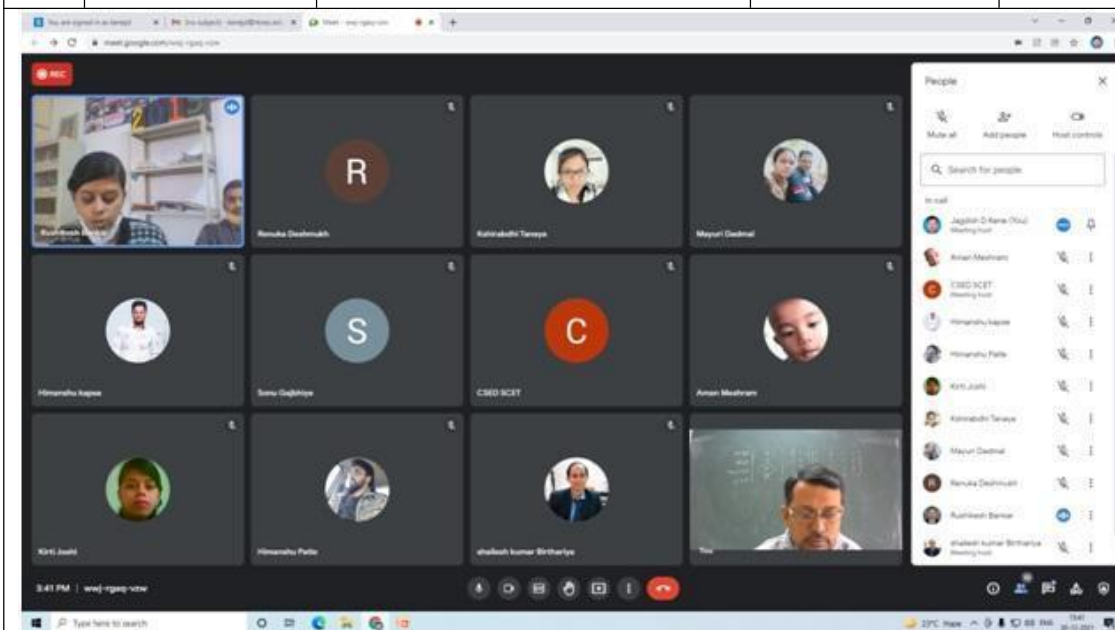


**Session 2021-22**  
**Guest Lectures taken by faculty**

<b>Sr. No.</b>	<b>Name of Faculty</b>	<b>Topic of Guest Lecture</b>	<b>Date of Guest Lecture</b>	<b>Organizers of Guest Lecture</b>
1	Dr. D.J. Dahigaonkar	Webinar on “Industry academia collaboration”	27 July 2021	Swargiya Dadasaheb Kalmegh Smruti Dental College & Hospital
2	Dr. Jagdish D. Kene	Combinational Digital Circuits	22 Oct 2021	TGPCET, Nagpur under AICTE Prerana scheme
3	Dr. S.B. Pokle	Applications of Digital Signal Processing and Experimentation with MATLAB- Part 1 delivered in AICTE approved FDP on Mathematical Modeling, Optimization and Simulation in Signal Processing	9 Dec 2021	RCET, Bhilai (CG)
4	Dr. S.B. Pokle	Applications of Digital Signal Processing and Experimentation with MATLAB- Part 2 delivered in AICTE approved FDP on Mathematical Modeling, Optimization and Simulation in Signal Processing	9 Dec 2021	RCET, Bhilai (CG)
5	Dr. Jagdish D. Kene	LIT systems in Digital Signal Processing	30 Dec 2021	SCET, Nagpur under AICTE Prerana scheme
6	Ankita Hitesh Harkare	IoT Applications using Antenna	7 <sup>th</sup> Jan, 2022	AI Beehive, Bengaluru
7	Dr. Bhumika Neole	‘MATLAB Image Processing Tool Box	12 <sup>th</sup> Feb, 2022	Electronics and Telecommunication Department, Yeshwantrao Chavan College of Engineering, Nagpur under the grant received from AICTE on Skill & Personality Development Programme Centre.

8	Dr. Mridula Korde	Recent Trends in Wireless Communication	19 <sup>th</sup> Feb, 2022	Cummins College of Engineering for Women
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## Publications

SN	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. Bhumika Neole	Comparative Analysis of Intrusion Detection System in Reactive Routing Protocols of Mobile Adhoc Networks	International Journal of Next-Generation Computing	Nov 2021	Print ISSN : 2229-4678 Online ISSN: 0976-5034	<a href="https://doi.org/10.47164/ijngc.v12i5.414">https://doi.org/10.47164/ijngc.v12i5.414</a>	ESCI (WOS)

2	Dr. P. R. Selokar,  Ananya Timande,  Aayushi Nagbhikar,  Ankita Chhattani,  Abhilash Nema	Smart Vacubin with Contactless Waste Collection	International Journal of Next-Generation Computing	Nov 2021	Print ISSN : 2229-4678 Online ISSN: 0976-5034	<a href="https://doi.org/10.47164/jngc.v12i5.414">https://doi.org/10.47164/jngc.v12i5.414</a>  Vol. 12, Special Issue No. 5, November 2021  pp 617~623	WoS (ESCI)
3	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
4	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

5	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
6	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
7	Varad C. Joshi Mandar M. Pimparkar, Dr. Prasanna P. Deshpande	Design and simulation of $\mu$ 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
8	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
9	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
10	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
11	Prof. Ankita Harkare, Dr. A.G. Kothari, Dr. A. Bhurane	Novel Rectangular Multiband Dielectric Resonator antenna with Slot for Broadband Applications	International Journal of Mechanical Engineering), Kalahari Journals,	December 2021	0974-5823	Vol. 6, No 3, pp. 2868-2872	Scopus

12	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
13	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	9 <sup>th</sup> Mar, 2022	ISBN:978-1-6654-0110-4	DOI: 10.1109/InCAP52216.2021.9726335	IEEE indexing

## Publications

- a) Mr. N. M. Borkar, Dr. P. K. Parlewar and Dr. D. J. Dahigaonkar Presented and published a paper titled “Design of Directive Microstrip Slot Feed Patch Antenna” in Indian Analytical Congress 2022 (IAC2022) organized at Graphic Era University, Deharadun (U.K.) on date 26 – 28 May 2022.
- b) Dr. D. J. Dahigaonkar & Pratiksha Bhanarkar, Shivani Agrawal, Vaibhavi Hirlekar, Murtuza Ali presented and published a paper titled “Real Time face mask detection with automated gate opening system.” in abstract book cum souvenir 2<sup>nd</sup> Indian Analytical Congress 2022 (IAC2022) organized at Graphic Era University, Deharadun, on date 26 – 28 May 2022.
- c) Dr. B. A. Neole and Mrs. A. H. Harkare presented and published a paper titled “Locust Swarm Detection using Yolov3.” in abstract book cum souvenir 2<sup>nd</sup> Indian Analytical Congress 2022 (IAC2022) organized at Graphic Era University, Deharadun, on date 26 – 28 May 2022.
- d) Mr. N. M. Borkar and Manali Dhoot, Piyush Bisani, Sanskar Agrawal, Shubham Yadav Presented and published a paper titled “Image Crowd Density Counting System using Convolutional Neural Network ” in Indian Analytical Congress 2022 (IAC2022) organized at Graphic Era University, Deharadun (U.K.) on date 26 – 28 May 2022.

- e) P. N. Thakre and S. B. Pokle, presented and published a paper titled "A survey on Power Allocation in PD-NOMA for 5G Wireless Communication Systems," 10th International Conference on Emerging Trends in Engineering and Technology - Signal and Information Processing (ICETET-SIP-22), 2022, pp. 1-5, doi: 10.1109/ICETET-SIP-2254415.2022.9791576. (Scopus).
- f) Mr. P. N. Thakre, Ajinkya P. Nilawar, Dr. J. D. Kene, Dr. S. B. Pokle presented and published a paper titled "Sentiment Analysis in Virtual Emotion Detection" in abstract book cum souvenir 2<sup>nd</sup> Indian Analytical Congress 2022 (IAC2022) organized at Graphic Era University, Deharadun, on date 26 – 28 May 2022.
- g) Mr. P. N. Thakre presented and published a paper titled "Automatic Entry Management Frame for CoViD-19 Prevention" in abstract book cum souvenir 2<sup>nd</sup> Indian Analytical Congress 2022 (IAC2022) organized at Graphic Era University, Deharadun, on date 26 – 28 May 2022.

### STTP/FDP/other Training Attended by Faculty

S No	Name of Faculty	STTP/FDP/Training Attended	Duration/Date	Organizers of the event
1	Dr. P. R. Selokar	Introduction to Industry 4.0 and Industrial Internet of Things	12 Week NPTEL-FDP Course (June – September, 2021) Successfully Completed the Course with <b>ELITE</b> Certification	NPTEL-AICTE
2	Dr. P. R. Selokar	Intellectual Property	12 Week NPTEL-FDP Course (June – September, 2021) Successfully Completed the Course with <b>ELITE</b> Certification	NPTEL-AICTE
3	Dr. R. B. Raut	Computer Networks and Internet Protocol	Jan- Apr 2021	NPTEL
4	Dr. R. B. Raut	German-I	Jan- Apr 2021	NPTEL
5	Dr. D. G. Khushalani, Prof. A. H. Harkare & Prof. V. S. Lande	"Inculcating Universal Human Values in Technical Education"	28 June, 2021 to 2 July, 2021	All India Council for Technical Education(AICTE)
6	Prof. Puja S. Agrawal	Online International Conference CodeFest 2021	5 hours, 14 August 2021	click2Cloud in collaboration with Centaurus Community
7	Prof. Puja S. Agrawal	Electronic Circuits and PCB design National Level	12 <sup>th</sup> July to 16 <sup>th</sup> July 2021	Pantech eLearning, Chennai

		Workshop		
8	Prof. N. M. Borkar	FDP_Modern Antenna Technologies for Futuristic Wireless Communication Systems	20-24 August 2021”	Dept of ECE Guru Jambheshwar University of Science & Technology, Hisar, Haryana 125001
9	Prof. N. M. Borkar	An insight to Biomedical Instrumentation, Biomedical Signal and Image Processing with hands on experiance and LabVIEW Programming	2-6 August 2021	Poojya Doddappa Appa College of Engineering, Kalaburagi
10	Prof. N. M. Borkar	Webinar on - Simulation in Pharmaceutical Manufacturing	8th Sept 2021	Ark Infosolutions Pvt Ltd
11	Prof. N. M. Borkar	Webinar on - Emerging Technologies in Telecommunications"	18th Sept 2021	Dept ECE RCOEM, Nagpur
12	Prof. Ankita Hitesh Harkare	NPTEL Course on Antennas with ELITE Certification	12 Weeks	NPTEL IIT Bombay
13	Prof. Ankita Hitesh Harkare	ATAL FDP on "Drones: Control, Navigation and Guidance"	26/07/2021 to 30/07/2021	Institute of Infrastructure Technology Research and Management.
14	Dr. Mridula Korde	Advanced Training School on PYTHON + R + MATLAB-Based Simulation and Design of 4G/ 5G MIMO-OFDM Wireless Systems	13th to 28th September 2021	IIT Kanpur
15	Prof. Prasheel Thakre	Applied Linear Algebra for Signal Processing, Data Analytics and Machine Learning	Jan- Apr 2021 12 Week NPTEL-FDP Course, Successfully Completed the Course with ELITE Certification	NPTEL-AICTE
16	Dr. S.B. Pokle	One week FDP on, “ Electrical & Electronics Systems for wind & solar” Conducted by NITTTR, Chennai	4-8 Oct 2021	NITTTR, Chennai
17	Dr. Rajesh B. Raut	2 day Industry Training on "Calibration	25-26 Nov 2021.	Archerchem Calibration Pvt. Ltd., Mumbai

		Metrology of Electro-Technical"		
18	Dr.S.B. Pokle	Four weeks Certificate course on, "Introduction to the Internet of Things and Embedded Systems"	16 dec 2021	University of California, Irvin, Through Coursera
19	Prof. Nishant M. Borkar	FDP on "Electromagnetic Interference (EMI) and Electromagnetic Compatibility (EMC)"	13-17 Dec, 2021	TPCT's Terna Engineering College, Nerul, Navi – Mumbai - ATAL
20	Prof. Nishant M. Borkar	FDP on on "5G Antenna Design Engineering"	6-10 Dec 2021	Organized – at MAILAM ENGINEERING COLLEGE, Tamilnadu - ATAL
21	Prof. Prasheel Thakre	PYTHON/ MATLAB and NYUSIM for Machine Learning (ML) in 5G mmWave MIMO Technology	3 weeks	IIT Kanpur
22	Prof. Prasheel Thakre	Principles of Modern CDMA MIMO OFDM Wireless Communications	8 weeks	NPTEL
23	Dr. (Ms.) Pallavi K. Parlewar	Two Weeks Online FDP on AI & Machine Learning for Computer Vision	2 Weeks/ 3 – 12 Dec 2021	Organized by Electronics and Communication Engineering Department, Shri Ramdeobaba College of Engineering and Management, Nagpur (An Autonomous Institution Affiliated to RTMNU, Nagpur) in association with Electronics & ICT Academy, NIT, Warangal.
24	Dr. (Mrs.) Mrudula S. Korde			
25	Dr.D.J. Dahigaonkar			
26	Prof. Vipul S. Lande			
27	Dr. (Mrs.) B. A. Neole			
28	Dr. P. R. Selokar			
29	Dr. P. P. Deshpande			
30	Prof. N. M. Borkar			
31	Dr. Deepak G. Khushlani			
32	Prof. Divya Shrivatava			
33	Prof. (Ms.) Puja Agrawal			
34	Dr. Ajinkya P. Nilawar			
35	Prof. Ashlesh Jaiswal			
36	Prof. Manoj R. Sarve			
37	Prof. (Mrs.) Ankita H. Harkare			
38	Dr. J. D. Kene			



39	Dr. Mridula Korde	Successfully completed NPTEL FDP/course on “Fundamentals of MIMO Wireless Communication”	12 weeks Jan-March 2022	IIT, Kharagpur
40	Dr. R.B. Raut	AICTE FDP on UHV-I	3 <sup>rd</sup> – 7 <sup>th</sup> Jan 2022	AICTE NCC-IP
41	Dr. S.B. Pokle	Participated in International Training Workshop on ‘Industry 4.0 and Energy Management’,	19 <sup>th</sup> – 20 <sup>th</sup> 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,
42	Dr. Bhumika Neole	Training Attended on “MATLAB and LABVIEW Programming for Engineering Applications”	24 <sup>th</sup> Jan 2022 to 04 <sup>th</sup> Feb, 2022	Conducted by National Institute of Technical Teachers’ Training and research , Chennai
43	Dr. R.B. Raut	UHV FDP Refresher-I Part I	31 <sup>st</sup> Jan, 2022 to 04 <sup>th</sup> Feb, 2022	AICTE NCC-IP
44	Dr. P. K. Parlewar	Outcome Based Assessment	1 Week (31 <sup>st</sup> Jan- 4 <sup>th</sup> Feb 2022)	NITTT Bhopal
45	Prof. Ankita H Harkare	Outcome Based Assessment	1 Week (31 <sup>st</sup> Jan- 4 <sup>th</sup> Feb 2022)	NITTT Bhopal
46	Mr. N.M. Borkar	FDP - Electromagnetics: Recent Trends and Future Applications”	28 <sup>th</sup> Feb – 5 <sup>th</sup> Mar 2022	IIT Indore
47	Dr. R.B. Raut	Design Thinking	7 <sup>th</sup> – 13 <sup>th</sup> Mar, 2022	Turnip Innovations Pvt. Ltd.
48	Mr. N.M. Borkar	FDP- Statistical Modelling and Analysis of Advanced Wireless	17 <sup>th</sup> – 23 <sup>rd</sup> Mar, 2022	IIT Indore

		Communication Systems		
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49. Dr. D.J. Dahigaonkar has attended the NPTEL FDP on "NBA Accreditation and Teaching and Learning in Engineering (NATE)". This FDP was organised by NPTEL and AICTE during January - April, 2022. The course was offered by IISc, Bangalore.
50. Dr. R. B. Raut have attended a FDP on UHV Refresher-I Part-II (UHV-II) from 16/05/2022 to 21/05/2022 organized by NCCIP AICTE.
51. Dr. R. B. Raut has successfully completed the NPTEL FDP on "NBA Accreditation and Teaching and Learning in Engineering (NATE)" with Elite Silver grade. This FDP was organised by NPTEL and AICTE during January - April, 2022. The course was offered by IISc, Bangalore.
52. Dr. R. B. Raut has successfully completed the NPTEL FDP on "German-II" . This FDP was organised by NPTEL and AICTE during January - April, 2022. The course was offered by IIT Madras.
53. Dr. P. K. Parlewar has attended the NPTEL FDP on "NBA Accreditation and Teaching and Learning in Engineering (NATE)". This FDP was organised by NPTEL and AICTE during January - April, 2022. The course was offered by IISc., Bangalore.
54. Dr. Mridula Korde successfully completed NPTEL Course "Fundamentals of MIMO Wireless Communication" in Elite grade on NPTEL/SWAYAM platform during Jan-Mar 2022 (Exam conducted in April 2022). This course was offered by IIT, Kharagpur.
55. Dr. Mridula Korde successfully completed FDPs on "Outcome Based Education" and "NBA Accreditation and Teaching and Learning in Engineering" on NPTEL platform with Elite grades on NPTEL/SWAYAM platform during Jan-March 2022 (Exam conducted in April 2022).
56. Dr. Mridula Korde worked as mentor for NPTEL course "Outcome Based Education" on NPTEL/SWAYAM platform during Jan-Mar 2022 (Exam conducted in April 2022).
57. Dr. B. A. Neole has attended the NPTEL FDP on "NBA Accreditation and Teaching and Learning in Engineering (NATE)". This FDP was organised by NPTEL and AICTE during January - April, 2022. The course was offered by IISc., Bangalore.

58. Dr. P. R. Selokar has successfully completed the NPTEL FDP on "NBA Accreditation and Teaching and Learning in Engineering (NATE)" with a consolidated score of 86%. Dr. P. R. Selokar was amongst 2% TOPPERS in this course out of 967 certified candidates. This FDP was organised by NPTEL and AICTE during January - April, 2022. The course was offered by IISc, Bangalore.
59. Dr. D. G. Khushalani has attended the NPTEL FDP on "NBA Accreditation and Teaching and Learning in Engineering (NATE)". This FDP was organised by NPTEL and AICTE during January - April, 2022. The course was offered by IISc., Bangalore.

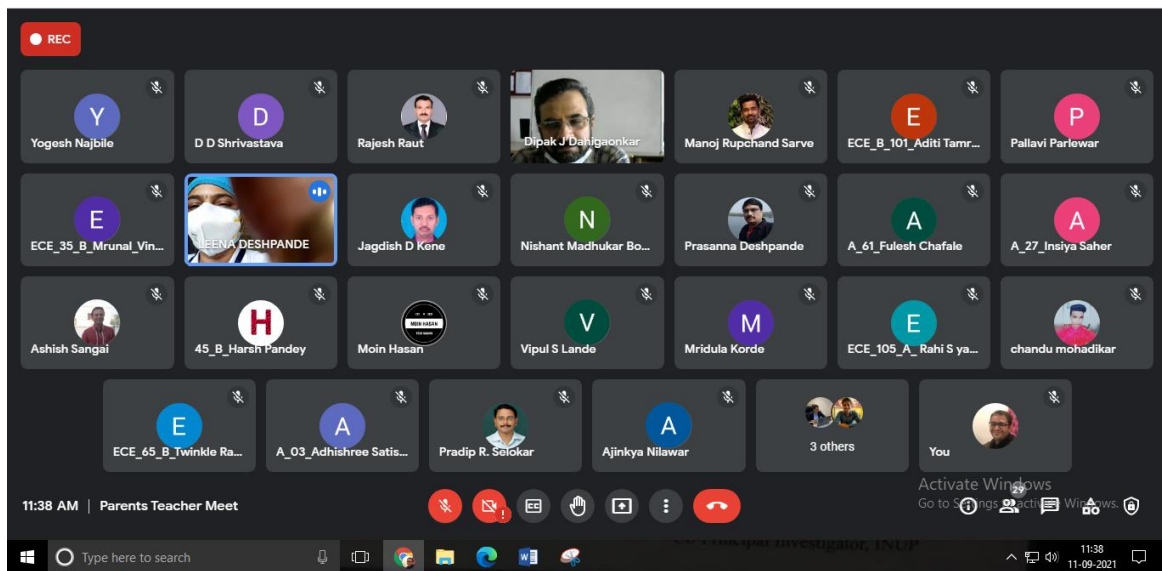
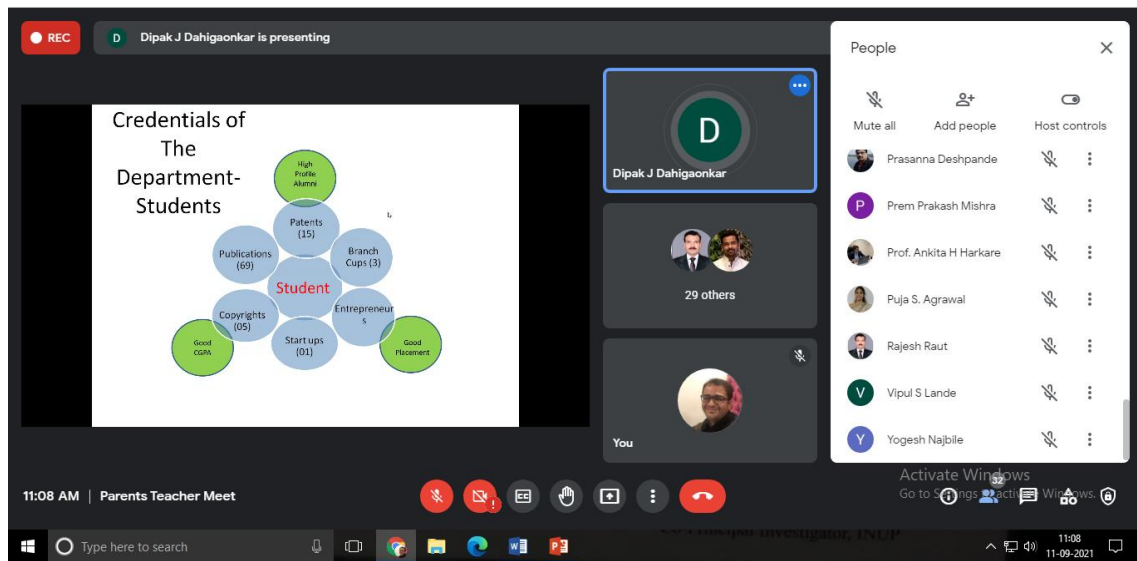
## **Departmental Activities**

### **Parents Meet**

Department of Electronics and Communication Engineering organized a Parent-Teacher Meeting for the session 2021-22 (ODD Semester) on 11<sup>th</sup> September 2021. Parent-Teacher Meeting coordinator welcomed the parents in the online Google meet and emphasized on the need of developing an enhanced communication between parents and faculty to serve as a bridge in fulfilling expectation of parents and students especially during this online mode of teaching. Dr. D. J. Dahigaonkar, HOD EC addressed the gathering conversing about the various curricular and extracurricular activities conducted by the department before and during this online mode of teaching. He especially addressed the parents about the support mechanisms and activities carried out to fulfil overall development of the students. A brief review of academic activities, teaching learning process and learning outcomes were also included in the discussions. Moreover a brief review of the various activities and schemes offering support to students for ensuring student progression in academics, placements formed a segment of this discussion. The schemes offering counselling to students were also discussed. Parents were also made aware about the academic and exam rules, guidelines and provisions of the college especially for the online mode of teaching by the HOD.

The enthusiastic parents showed keen interest in the meeting. Parents disclosed their satisfaction regarding the culture and atmosphere prevailing in the department and talked about their queries related to the academics and personal growth of their ward. The parents profoundly enquired and discussed about the activities of the department towards preparing students for higher education, placements, internship and overall development. The parents also asked to explore ways where in the assessment/tests submission can be

exempted with time submission bounds so that network glitches can be overcome.



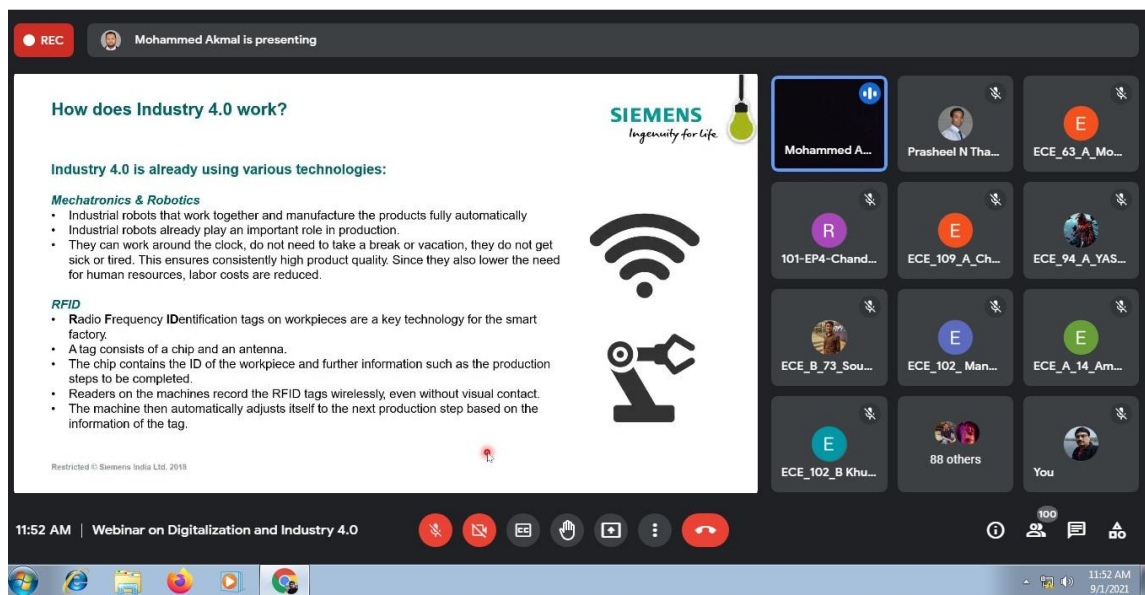
Total Parents who attended the online meeting- 22; Feed form submitted by the parents- 07

### Conference/STTP/Guest Lecture organised

S No.	Conference/STTP/Guest Lecture organised	Speaker (with Affiliation)	Duration	Date
1	Industry Co-teaching in the course Wireless Communication for Unit 5 on GSM (Organized by Prof. P. S. Agrawal, EC, RCOEM)	Mr. Samir Khare, SDE, BSNL Nagpur	6 hours	13 <sup>th</sup> Sep 2021 to 5 <sup>th</sup> Oct 2021



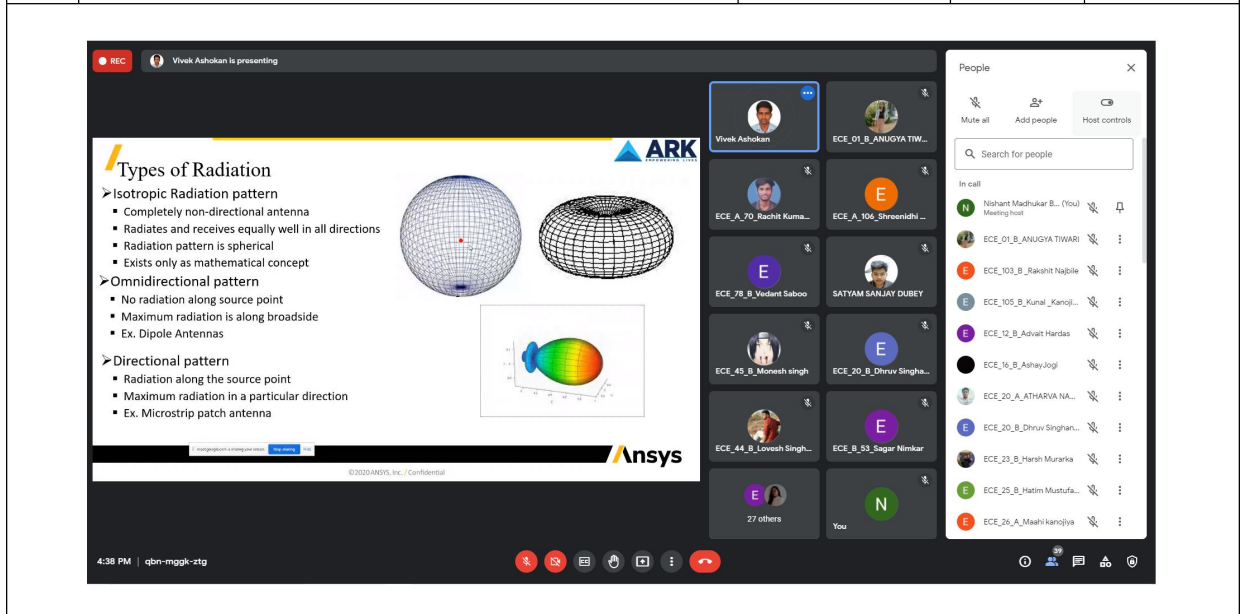
2	<p>Webinar on “Digitalization and Industry 4.0”          (Organized by Dr. R. B. Raut, Dr. P. P. Deshpande.          Prof. A. H. Harkare EC, RCOEM in association with          IIIC, RCOEM Nagpur)</p>	<p>Mr.          Mohammad          Akmal          Manager-          Customer          Service          Siemens Ltd.          Coimbtore</p>	2 Hrs	1 <sup>st</sup> Sep 2021
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3	<p>Guest lecture on "Entrepreneurship opportunities in          Electronics &amp; communication Engineering"          (Organized by Prof. N. M. Borkar, EC, RCOEM)</p>	<p>Mr. Madan          Palorkar,          Proprietor of          firm Techno          Screen Art          Nagpur</p>	1 Hour	16 Sept 2021
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4	<p>Guest lecture on the topic “Radiation &amp; Antenna Basics” (Organized by Prof. N. M. Borkar, EC, RCOEM)</p>	<p>Mr VivekAshokan, HF, Application Engineer, ARK Infosolutions Pvt. Ltd.</p>	1 Hour	29 Sept 2021
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5	<p>Webinar on “ Higher Studies and Job Opportunities in United States of America” (Organized by Prof. A. H. Harkare, EC, RCOEM)</p>	<p>Mr. Abhijeet Gupta, Research and Training Assistant, University of Dayton, Ohio, USA</p>	1-2 Hour	4th July 2021
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# University Selection

University Selection should be done on the following basis



6	Webinar on “ Digital Transformation through Cloud” (Organized by Prof. A. H. Harkare, EC, RCOEM)	Nidhi Sinha, Data and AI Business Head, South EC , Microsoft	1-2 Hour	13th July 2021
<p>WHAT CAN YOU EXPECT TODAY</p> <ul style="list-style-type: none"> <li>• Understanding What is the cloud???? – May Be</li> <li>• Why use the cloud??? It's a good thing</li> <li>• Digital Transformation and Pandemic Acceleration</li> <li>• Amazing world of Data And Analytics</li> <li>• Q&amp;A</li> </ul>				
7	Webinar on “Writing a Research Article: Introduction to Beginners” (Organized by Prof. A. H. Harkare, EC, RCOEM)	Dr. S.S. Balpande, Assistant Professor, RCOEM	1-2 Hour	24th July 2021

**Elements of a Good Hypothesis**

When trying to come up with a **good hypothesis** for your own research or experiments, **ask yourself the following questions:**

1. Is your hypothesis based on **current/future problem**?
2. Is your hypothesis based on your research topic?
3. Can your hypothesis be tested?
4. Does your hypothesis include independent and dependent variables?

- Before you come up with a specific hypothesis, **spend some time doing background research.**
- Once you have completed a **literature review**, start thinking about potential questions you still have.

Dr. Sarooh Talpande, RCOEM, Nagpur [www.saropande.mech.com](http://www.saropande.mech.com)

8	Webinar on “ Introduction to Embedded Linux Systems” (Organized by Prof. A. H. Harkare, EC, RCOEM)	Saket Penurkar, Embedded Systems Engineer, Analog Devices Inc.	1-2 Hour	12th August 2021
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**Compilation on Linux**


- ▶ GCC – GNU Compiler Collection
- ▶ Compilation constitutes 4 steps:
  - ▶ Pre-processing
    - ▶ Macros are substituted
    - ▶ Removal of comments in the code
    - ▶ Inclusion of header files
  - ▶ Compilation
    - ▶ Assembly level code
  - ▶ Assembler
    - ▶ Converts assembly level code into object file
  - ▶ Linking
    - ▶ Object files are given its definitions
    - ▶ Static and dynamic linking


9	Webinar on “ Free Education and Job Opportunities in Germany” (Organized by Prof. A. H. Harkare, EC, RCOEM)	Ms. Vasudha Potdar, Design for Test Engineer, Infineon Technologies AG, ChipGlobe, GmbH	1-2 Hour	11th September 2021
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### Free Education, umm... really?

- Yes!! No tuition Fees
- Germans think of education as a necessity rather than a commodity.
- Introduction of fees by some universities to non-EU students.
- High quality Education
- Variety of courses.



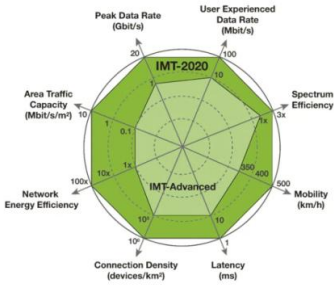



10	<p>Webinar on “Emerging Technologies in Telecommunication” (Organized by Dr. Mridula Korde, Prof. A. H. Harkare, EC, RCOEM)</p>	<p>Munendra Moon, Asst Vice President, Reliance Jio Infocomm Ltd.</p>	1-2 Hour	18th September 2021
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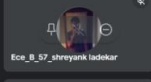
Emerging technologies that will transform telecommunications

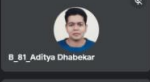
1. AI/ML
2. 5G
3. DevOps
4. Network Virtualization
5. Internet of Things
6. Big Data
7. Cloud Computing
8. Cyber Security
9. Edge Computing

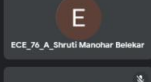


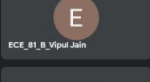
  
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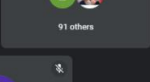
  
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B\_81\_Adiya Dhabekar

  
ECE\_76\_A\_Shruti Manohar Beekar

  
ECE\_81\_B\_Vipul Jain

  
ECE\_16\_B\_Ashay Jogi

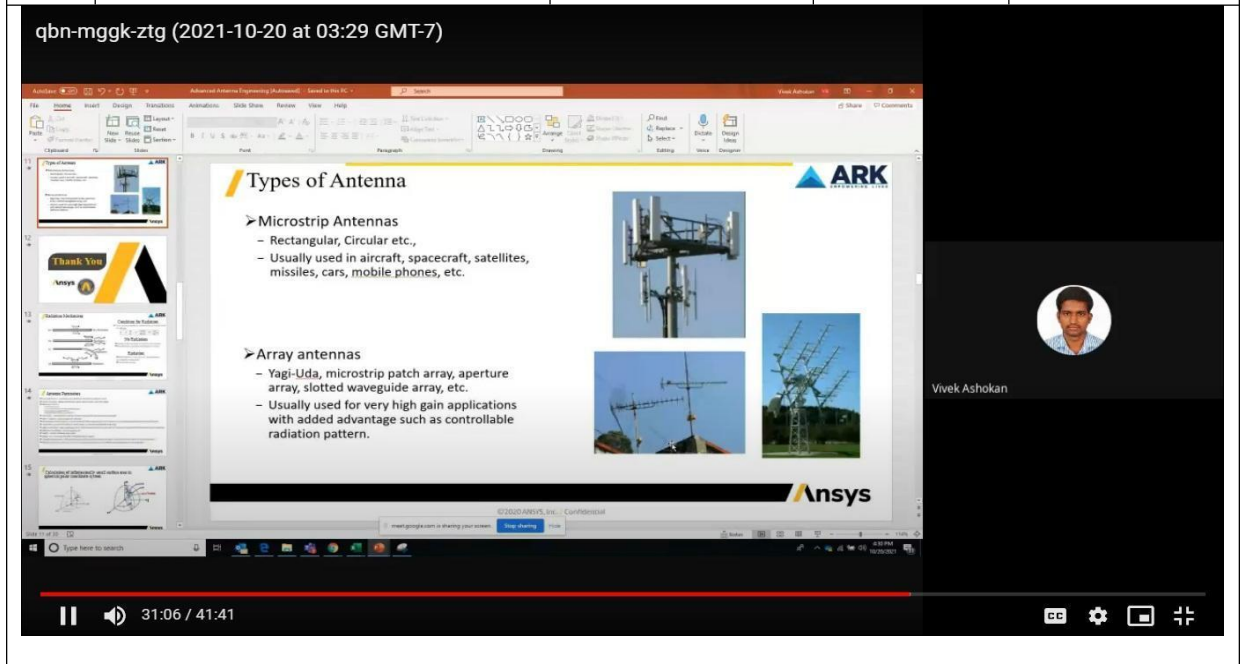
  
91 others

  
You

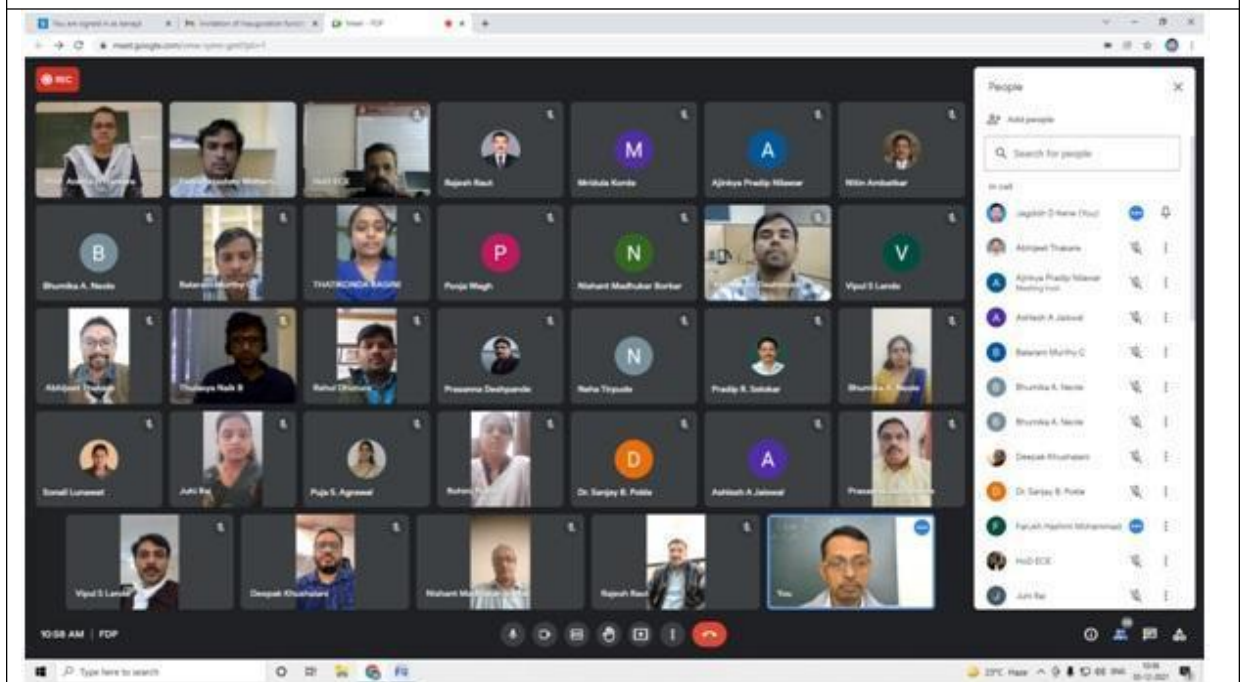
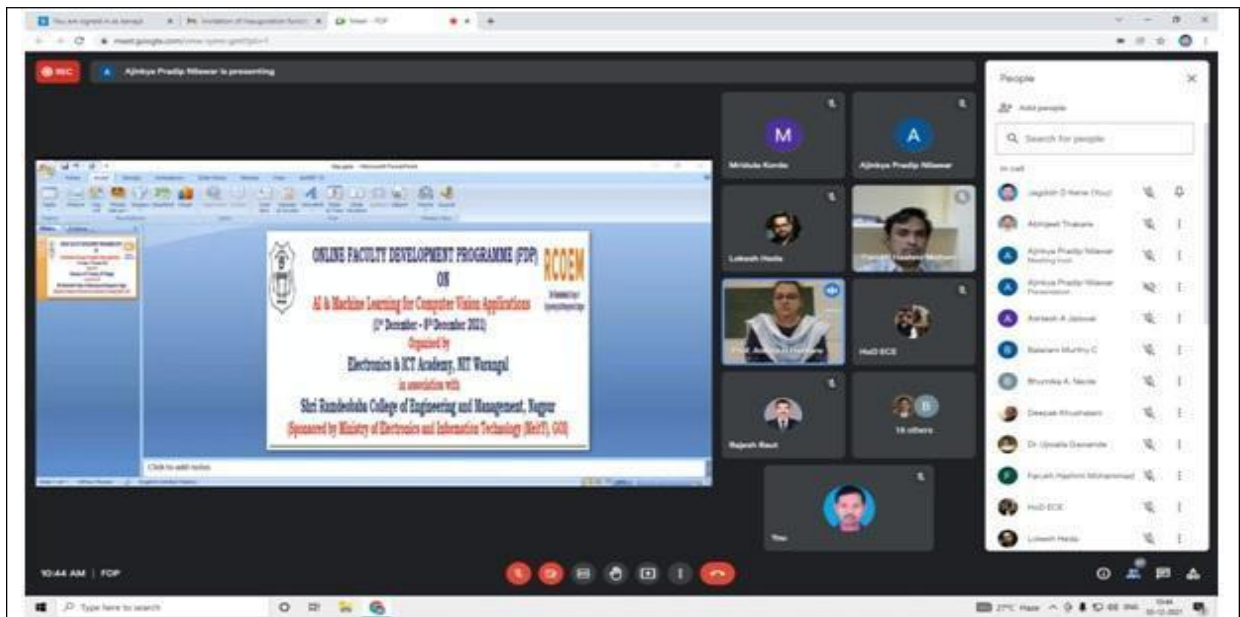
11	<p>Webinar on “ Time to meet your best Version” (Organized by Dr. Mridula Korde, Prof. A. H. Harkare, EC, RCOEM)</p>	<p>Vinay Chawla, Founder, Enlighten the Soul</p>	1-2 Hour	14th August 2021
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12	<p><i>Industry co-teaching lectures on subject Electromagnetic - Waves [ECT351] for V-Semester (A&amp;B) coordinated by Prof. Nishant M. Borkar</i></p>	<p><i>Mr Vivek Ashokan, HF, Application Engineer, ARK Info solutions Pvt. Ltd.</i></p>	7 Hours	11-21 Oct 2021
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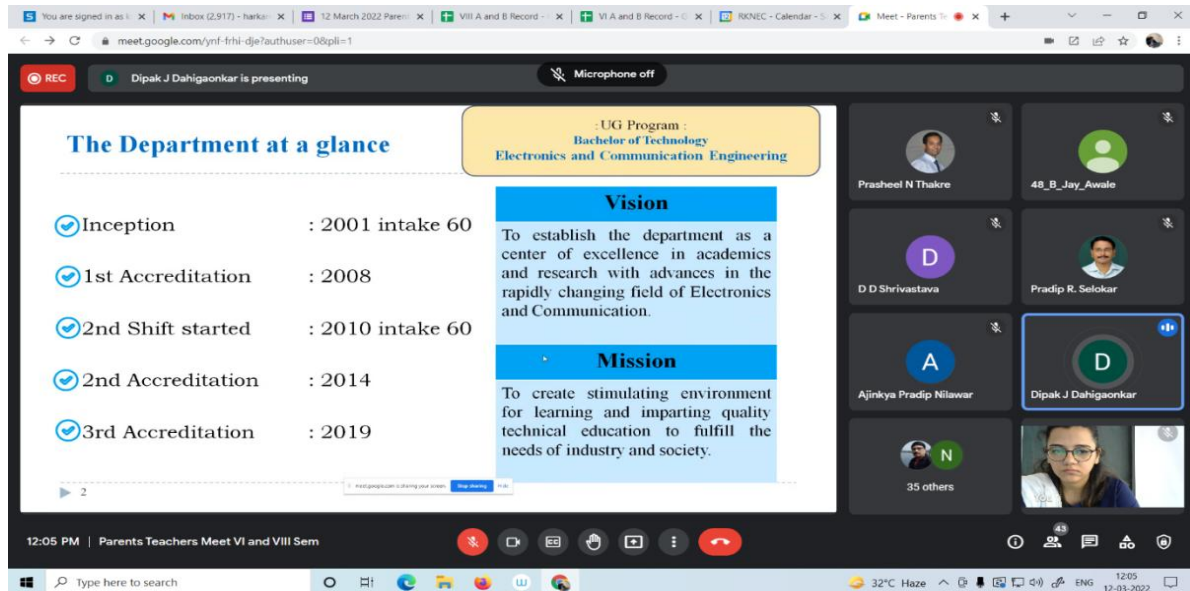


13	<p><i>Online FDP on AI &amp; ML for Computer Vision Applications in Association with E&amp;ICT NIT Warangal.</i></p>	<p><i>Faculties from various NITs and IITs in the field of Image Processing</i></p>	10 days	3 - 12 Dec 2021
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14	Awareness Programme on Know Yoga Know Life	<p>Mrunal Khade</p> <p><i>Network lead in Tech Mahindra, Pune and is a Certified International Yoga Teacher , Pratish Yoga training school ,Yoga wellness Instructor, Ayush Ministry, Govt of India.</i></p>	1 Hour	9 Oct 2021
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**Parents Meet:** - Parents Teachers Meet was organised by EC Department on 15<sup>th</sup> January for III Semester and 12<sup>th</sup> 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

**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 MiRACI 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 incharge 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 MiRACI and Binary Brains.



RCOEM Internal Smart India Hackathon 2022 teams



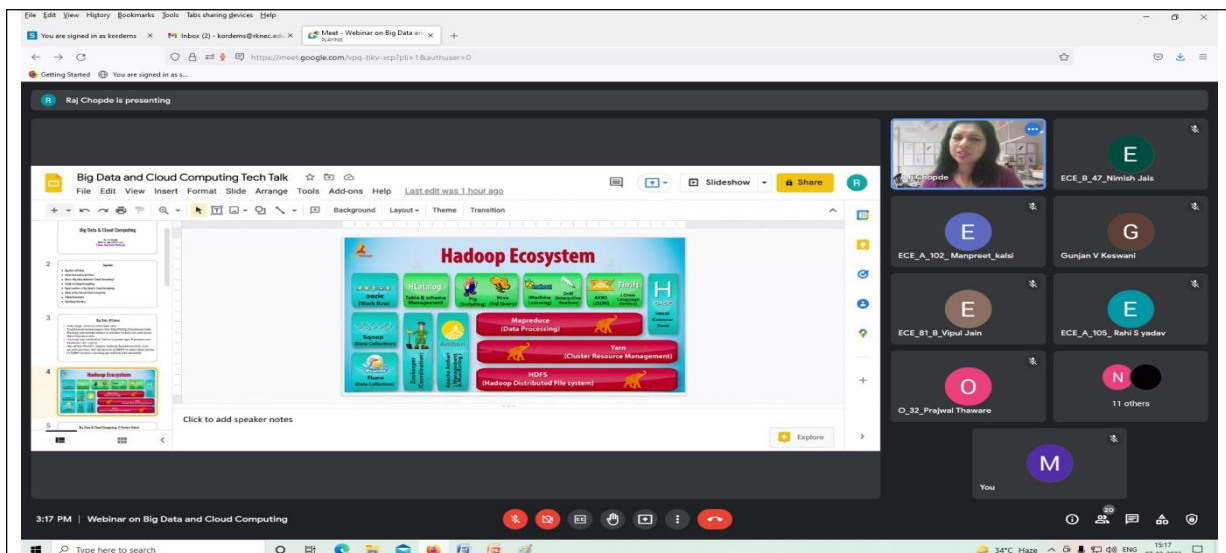
Participant team presenting their Ideas to Jury members



Participant team presenting their Ideas to Jury members

### Conference, STTP and Guest Lectures organized in Department

SNo.	Conference/STTP/Guest organised	Lecture	Speaker (with Affiliation)	Duration	Date
1	Guest Lecture on “Big Data and Cloud Computing Technologies”		Rajshri Chopde, Big Data Platform @ Yahoo, USA	1 hr	7 <sup>th</sup> Mar, 2022



**Guest Lecture on “Big Data and Cloud Computing Technologies”**

SNo.	Conference/STTP/Guest organised	Lecture	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):

- Dr.S.B. Pokle, Worked as a member on a Committee appointed by Gondwana University, Gadchiroli for Granting recognition as Center for Higher Learning and Research in Inter-disciplinary study at Govt. College of Engineering, Chandrapur, on 1 December 2021.
- Published a Patent on, “ Solar panel for generating Solar Energy” dated 13-Oct-2021, Application No. 202121046773. Published on 29-Oct-2021.
- Filed a Patent on, “Development of new design of Office Table Organizer” First Examination report received, dated 13-09-2021, Design Application No. 347734-001.
- 106 students of V semester ECE Department attended the Online International Conference Codefest 2021 as part of Beyond Curriculum Recent Trends based Lifelong learning initiatives.
- 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.
- Dr. S. B. Pokle, worked as Officer In-charge first shift for conducting autonomy end semester examination RW2021.
- 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.



- In session 2021-22, total 104 ECE students opted and successfully completed their VIII Semester internship from various industries.
- 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), GHRCE Nagpur, 29-30 April, 2022. Reviewed 04 papers.
- Dr. S. B. Pokle : Worked as Officer In charge First shift for all Autonomy Examinations conducted during January to June 2022 at R.C.O.E.M. Nagpur.
- Dr. S. B. Pokle : Appointed and worked as Chairman for Academic audit Committee (LEC) constituted by RTM Nagpur University to inspect V.D. College of Engineering and Technology, on date 10 June, 2022.

### Conduction of Value Added Course

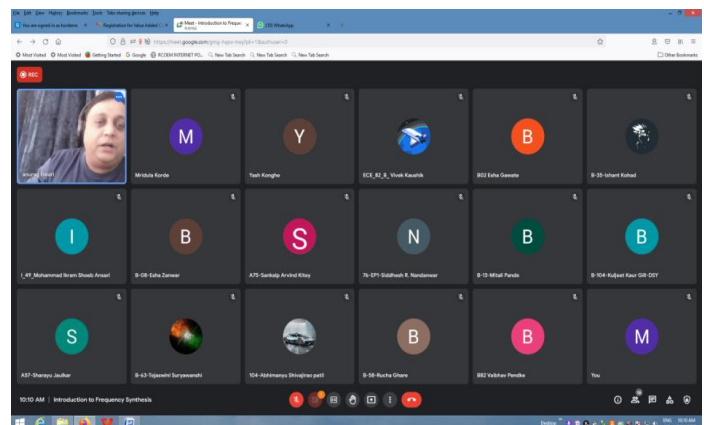
**Course Title: - Introduction to Frequency Synthesis**

Department of Electronics and Communication Engineering conducted a Value Added Course on “Introduction to Frequency Synthesis” during 14<sup>th</sup> May 2022 to 25<sup>th</sup> July 2022 in association with Mentor from Qualcomm.

This course provided the practical knowledge necessary to design frequency synthesis. Around 30 students had participated in this course.

**The course was designed and conducted by Mr. Anurag Tiwari along with faculty coordinator Dr. Mridula Korde.**

Mr. Anurag Tiwari is a distinguished alumnus of RCOEM from 1998 Electronics batch. Presently he is working as Senior Staff Engineer at Qualcomm.



**1. Screenshot : Conduction of Value Added Course by Mr. Anurag Tiwari**

**A. Two days training program on “3-D Printing, Reverse Engineering and Internet of Things (IoT)”**

A series of two days training program on “3-D Printing, Reverse Engineering and Internet of Things” was conducted for the **students of Bhavan’s Bhagwandas Purohit Vidya Mandir -**

- 12 and 13 April 2022 for Trimurti Nagar branch,
- 19 and 20 April 2022 for Srikrishna Nagar and Koradi branch,
- 21 and 22 April 2022 for Ashti branch,
- 14 to 17 June 2022 for Civil Lines branch.

**Prof. A Jaiswal and Prof. V S Lande have conducted the training sessions on IoT at RCOEM-TATA-CIIIT.**



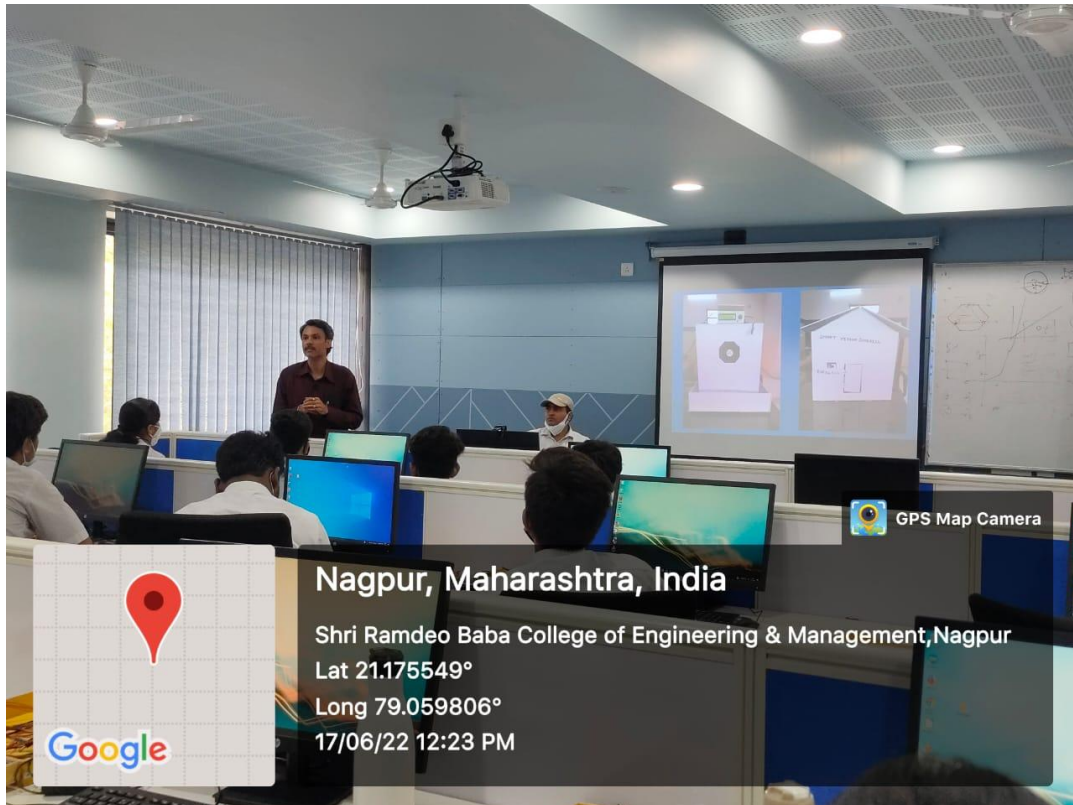
**3. Photograph on 14th June 2022 : Training program on “3-D Printing, Reverse Engineering and Internet of Things (IoT)”**



**3. Photograph on 14th June 2022 : Training program on “3-D Printing, Reverse Engineering and Internet of Things (IoT)”**



**4. Photograph on 16th June 2022 : Training program on “3-D Printing, Reverse Engineering and Internet of Things (IoT)”**



**5. Photograph on 17th June 2022 : Training program on “3-D Printing, Reverse Engineering and Internet of Things (IoT)”**

**B. Best Branch Trophy :**

Department of Electronics and Communication Engineering have received best branch trophy in branch cup competition held in the month of April 2022. EC Students have secured first position in SPORTS CUP (GIRLS), DRAMA CUP, TECHNICAL CUP, and PHOTOGRAPHY CUP, second position in MUSIC CUP and Third position in SPORTS CUP (BOYS).



**6. Photograph : Dr. D. J. Dahigaonkar, HoD, EC receiving best branch trophy in branch cup competition from Institute Management Members**



**7. Photograph : Group Photograph of winning team receiving best branch trophy in branch cup competition with Institute Management Members**