

DEPARTMENT OF HUMANITIES AND APPLIED SCIENCES

1. Academic achievements:

FE Sem II (2019-20 batch): **Overall Pass Percentage – 100%**

- ❖ 12 students secured score of SGPA 10
- ❖ 122 students scored SGPA 9 and above

FE Sem I (2020-21 batch): **Overall Pass Percentage – 100%**

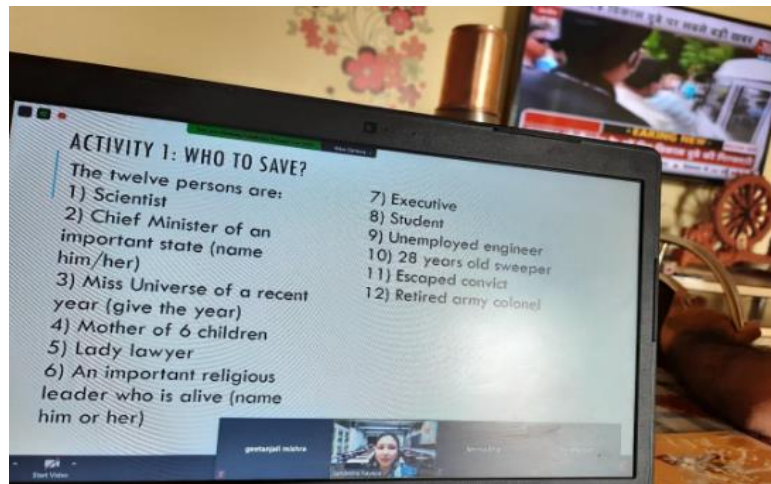
- ❖ 156 students secured perfect score of SGPA 10
- ❖ 188 students scored SGPA 9 and above

2. Department Initiatives:

- (i) E- Admission guidance cell was initiated by Department of Humanities and Applied Sciences for FE admissions. One to one specialist guidance on applications/admission procedure of DTE and college were provided through regular online meet. Webinars were also conducted on **“Guidance for Engineering Admission 2020-21”** for admission related queries every Saturday which aimed in providing the participants with an insight into the Engineering branch choices by respective department HODs in the desired domain with their current relevance. In addition, an online MOCK CET was conducted on 3rd Oct 2020, for the candidates who registered with us for Engineering Admissions as a practice towards betterment.
- (ii) Two Weeks (40 hrs) SDP on “Universal Human Values” conducted by Dr. Manasi Karkare & Dr. G. Kanthimathi from 29.06.2020 to 11.07.2020. This program with twenty three participants conducted online sessions on UHV and had various activities like Yoga, Meditation, Exercise etc. Three guest speakers were invited and a Yoga trainer also conducted an online yoga class for the students. The students liked all the sessions and gave a remarkable feedback.



- (iii) Two Weeks (40 hrs) SDP on “Enhancing Professional Communication” by Prof. Seema Khan, Dr. Geetanjali Mishra & Dr. Ram Kishan Bhise from 29.06.2020 to 11.07.2020. Fifteen students participated and they were given daily assignments, after each session, to help them practice and apply the concepts, through case study/activities. Two guest speakers were invited and the program ended with the students' feedback and team presentations from FE and SE.



- (iv) One Week (20 hrs) SDP on “Engineering Mathematics for GATE Examination” by Prof. Asha Raj, Prof. Pratibha Sharma, Prof. Vijaya Patil, Prof. Mahesh Biradar & Prof. Ashwin Chavan from 29.06.2020 to 03.07.2020. Fifty two students got benefitted by the sessions/assignments/practice papers.
- (v) One coding contest was conducted exclusively for FE along with the Computer Engineering department of our college as An Introduction to Competitive Programming using C language on 24.07.2021. The event was hosted on Codechef SIES GST’s Arena platform which helped them to shape up their programming skills.



3. Collaborative/MOUs': NIL

4. Academic /technical achievements of students

(i) Our college provides free student license for Coursera online courses wherein students can enroll themselves in different online courses and can get their certificates free of cost after completion. **Around eighty FE students completed online coursera courses.**

(ii) Seven internship was undertaken by FE students

(iii) Ganesh Nainar from CE branch was

- ❖ Selected in the top 8 out of 486 students interviewed in Maharashtra for NYEP (four months entrepreneurship course sponsored by Oneplus).
- ❖ Selected in top 12000 among 1.5 lakh people people applied across the globe for Bizence- A Stanford University initiate for Python course
- ❖ Newbie - 2020-21 awardee
- ❖ Promethean - 2021 winner
- ❖ TML – 2021- SAE Automania Quiz competition – winner

5. Sports achievements: Nil due to covid pandemic situation

6. Cultural achievements: Nil due to covid pandemic situation

7. Faculty achievements/Research grants:

(i) **Dr. Manasi Karkare** was

- ❖ Invited as a Reviewer at IEEE Technically Co-Sponsored 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE 2021) to be conducted by Father C. Rodrigues College of Engineering Vashi on January 15-16, 2021.
- ❖ A chair person for setting question paper (Applied Physics-II) Rev 2012 for University of Mumbai.
- ❖ A chair person for setting question paper (Applied Physics -I) for University of Mumbai SH2020.
- ❖ Appointed as a Paper Setter for FE_Sem-I_Engineering Physics-I_April 2021 University Examination.

- ❖ Organised webinar "Empowering Women through Health Awareness" on 08.03.2021 by Fitness professional and expert Prof. Namita Sharma.
- ❖ Conducted a session for housekeeping staff of SIES on "Personal Health and Hygiene" and also demonstrated few pranayamas on Mar 8, 2021.
- ❖ Awarded certificate of appreciation for being volunteer and contributing for smooth conduction of online student induction program on UHV organized by University of Mumbai from 25.02.2021 to 30.01.2021.
- ❖ Invited as a speaker on Swachh Radio Navi Mumbai for a talk show on "Eco Friendly Ganesh Utsav" on 20.8.2020.

(ii) Prof. Sumitra Iyer

- ❖ Published paper on "Granger Causality Analysis of deviation In Total Electron Content during Geomagnetic Storm in the Equatorial Region" in Journal of Engineering and Applied Science <https://jeas.springeropen.com/> Journal of Engineering and Applied Science on 6/10/2021.
- ❖ Published paper on "Predicting Total Electron Content in Ionosphere using Vector Autoregression model during Geomagnetic storm" in Journal of Applied Geodesy (JAG) on 6/7/2021.
- ❖ Published paper on "Modelling the Total Electron Content variation in the Ionosphere for improved positional Accuracy" in IEEE Explore (via International Conference) 10/16/2020.
- ❖ Published paper on "Predicting Ionospheric Total Electron Content using Adaptive Regression model" in IEEE Explore (via International Conference) 10-May-21.
- ❖ Completed PG diploma Data Science from IIIT, Bangalore.
- ❖ Completed basic and advanced level Innovation Ambassador Certification under MHRD, IIC.
- ❖ Involved in drafting of Institute Startup policy
- ❖ Organised Industry expert session during FE Induction by Prof. Tejas Hoskatti and Prof. saurab Sinha and alumni session on each day by Prof. Saurabh Prabhu, Prof. UnniKrishnan, Prof. Onkar Prabhu, Prof. Jagruti Shenoy, Prof. Kritika Kaushal, Prof. Vishal Vinod and Prof. Ashok Krishnan from India and abroad.
- ❖ Organised webinar on Women Empowerment by Prof. Lavanya Shanbog on Dec 2020.

(iii) Prof. Pratibha Sharma

- ❖ Organized orientation program of revised syllabus of Engineering Mathematics-III,IV for Group C on 31/07/2020 on behalf of University of Mumbai.
- ❖ Paper setter for Applied Mathematics-III-Printing and Packaging Technology, for University of Mumbai
- ❖ Paper setter for the Institute Level Elective course ILO75- Operations Research In the Second half 2019 on behalf of the University of Mumbai
- ❖ Paper setter for the Institute Level Elective course ILO75- Operations Research In the First half 2020 on behalf of the University of Mumbai

(iv) Prof. Vijaya Patil

- ❖ Published paper on “Prediction of Optimum Sheet Metal Blanking Clearance for IS513CR Steel Using Artificial Neural Network” Proceedings of International Conference on Intelligent Manufacturing and Automation. Lecture Notes in Mechanical Engineering. Springer, Singapore. Online ISBN: 978-981-15-4485-9. July (2020).
- ❖ Published paper on “Investigation of Blanking Clearance for IS277GI by Artificial Neural Network (ANN)”, 2021 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE), July 2021.
- ❖ Paper setter for AM IV Biotechnology Engineering (Rev 2016) for University of Mumbai.
- ❖ Paper setter for AM III Electronics and Telecommunication Engineering (Rev 2016) for University of Mumbai.
- ❖ Conducted SDP session on “Awareness of Moocs: Coursera and NPTEL” for FE Students on 9th may 2021.
- ❖ Conducted SDP session on "MOOC platforProf.: Extract maximum" for FE Student to clear their doubts and to tools used in MOOC on 27th June 2021.
- ❖ Completed Coursera course of Statistics for “Researchers_ Understanding Mediation, Moderation and Beyond” on 3 July 2020.
- ❖ Completed Coursera course certificate of Finding Purpose and Meaning In Life_Living for What Matters Most,UoMichigan, 4 July 2020.
- ❖ Completed Coursera course of Introduction to Personal Branding, UoVirgina.

- ❖ Volunteered and hosted (Grand finale) *Toyathon 2021* an inter-ministerial initiative organized by the MINISTRY OF EDUCATION, GOVERNMENT OF INDIA's Innovation Cell with support from AICTE, from 22 - 26 June 2021, hosted by National Institute of Industrial Engineering (NITIE) as a NODAL centre.

(v) **Prof. Seema Khan** organized SDP on

- ❖ Career opportunities for Mechanical Engineers in Marine Engineering by B P Marine academy for TE & BE Mech on 01 March 2021.
- ❖ Awareness Session on Certification and opportunities in Cybersecurity for all TE students by ISAC on 02 March 2021.
- ❖ Information Session on GATE/UPSC/MPSC for Mechanical Engineering by Nikhil Gupta, NK Educon on 16 March 2021.
- ❖ Career Guidance on CAT vs GRE vs GMAT by Navneet Anand, Career Launcher for all TE & BE students on 19 March 2021.
- ❖ Awareness-cum-Motivational Talk for TE students- BE 2021 by Lt. Cdr. Pradeep Kothari, Indian Navy.
- ❖ Campus recruitment Training by Campus Credentials for all students of BE 2021-22 From April to July 2021.

(vi) **Prof. Seema Khan** was appointed as Chairperson and paper-setter for KT Examination SEM-II (REV-2012) for Dec/Jan examination.

(vii) **Prof. Ashwin Chavan**

- ❖ Published paper "On Complex Valued Extended Rectangular b-metric Spaces" in Scopus Indexed Journal with ISSN 1001-1749, Aug 2020.
- ❖ Cleared Maharashtra State Eligibility Test (SET Exam).
- ❖ Paper setter for AM IV Computer Engineering and AM IV Biomedical Engineering, University of Mumbai.
- ❖ Floated a special course for DSE on MOOC platform as an ICT tool for self learning.
- ❖ Completed 'Introduction to Complex Analysis' an online non-credit course authorized by Wesleyan University offered through Coursera Oct 2020.

(viii) Prof. Mahesh Biradar

- ❖ Paper setter for University of Mumbai for FH2020 backlog exam Prof. (4sets - Mathematics).
- ❖ organized a NSS Activity on International Plastic Bag Free Day on 03/07/2020. 35 NSS students participated in this activity.

(ix) **Dr. Geetanjali Mishra** was a paper setter for UOM exam Prof. (PCE1 – SEM II-2021).

(x) Dr. G. Kanthimathi

- ❖ Published paper “Investigation on the Effects of $MnCl_2$ Doping on Structural and optical Properties of DAST Single Crystals as Materials for Second Order Nonlinear Optics” published on Crystal Research and Technology –(Scopus indexed), June 2021.
- ❖ Presented a research paper for conference CHSTE-Multicon W - held at Thakur College of Engineering and Technology, Kandivali got published in conference proceedings, McGraw Hill publications (July 2020).
- ❖ Paper setter for Applied Physics – II (Rev 2016) for University of Mumbai KT exam.
- ❖ Paper setter for Applied Physics – II (Rev 2016) for University of Mumbai KT exam (backlog- three sets).
- ❖ Set question paper for B.Sc. (Hons.) Nuclear Physics - Sri Sathya Sai Institute of higher learning, Andhra Pradesh FH 2020.
- ❖ Completed a coursera course on “Nanotechnology and Nanosensor” .
- ❖ Completed a coursera course on “The science of well-being”.
- ❖ Organized FDP webinar on “Resilience Management” on 21.11.2021.
- ❖ Organized SDP- UHV session by Dr. Lakshmi Varanasi on time management during FE induction program.

(xi) Dr. Ram Bhise

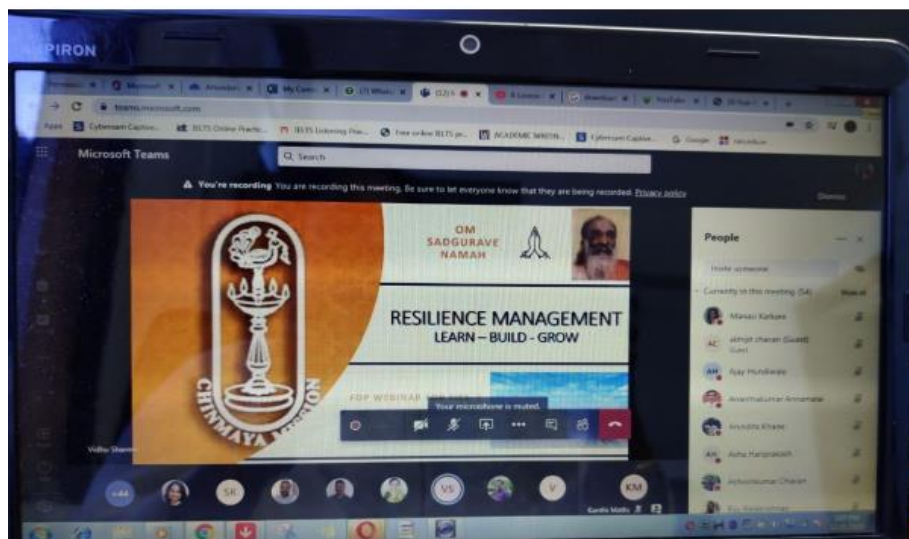
- ❖ Dr. Ram Bhise worked as a moderator in the 3rd International FDP on the theme "EMERGING APPROACHES & TRENDS IN ENGLISH LANGUAGE AND LITERATURE" on 28th August 2020.
- ❖ Successfully completed series of “AE E-Teacher Program Winter 2020 “Using Educational Technology in the English Language Classroom Self- Paced (MOOC)”, facilitated by Iowa State University on 7th July 2020.
- ❖ English for Media Literacy self-paced massive open online course (MOOC) on 17th July 2020.
- ❖ Integrating Critical Thinking Skills into the Exploration of Culture in an EFL Setting self-paced (MOOC)” on 20th July 2020.
- ❖ English for Journalism in an EFL on 25th July 2020.

8. Seminars/workshops organised by departments:

(i) Faculty Development Program

Department of H & AS conducted

- ❖ FDP on “Team Synergy” by Gaurav Ghelani, TCS for all the GST faculties on 27.08.2020.
- ❖ FDP webinar on “Resilience Management” by expert Prof. Vidhu Sharma, Leadership Coach and Trainer associated with Chinmaya Mission on 21.11.2020.

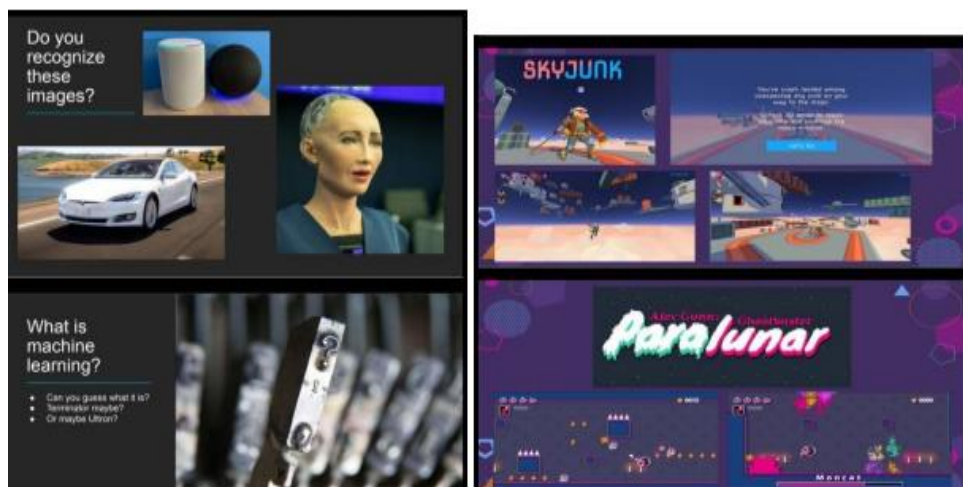


- ❖ FDP webinar on “Ethical values in Professional Life” hosted by ISAC on 26.05.2021.
- ❖ Nine days FDP “Yoga and Meditation workshop” for Faculty and Non teaching staff of SIES GST from 16.05.2021 to 24.05.2021.

(ii) Students Development Program

Department of H & AS conducted

- ❖ One week online FE orientation program from 18.01.2021 to 23.01.2021 for the new joiners. The first day session started with Principal Dr. Atul Kemkar, Dean FE Dr. Manasi Karkare and Student Council incharge Prof. Sumitra Padmanabhan addressing the students about the need for induction program. Several speaker sessions and alumni sessions were conducted to give an exposure to the students regarding college, placements and industry requirements. Student council students arranged sessions like robotics, resume building, designing and so on. Creative and cultural activities like music, media, games etc. were also conducted through online mode. Three UHV sessions were conducted with the help of expert speakers Prof. Umesh Jadhav, UHV Cell- AICTE Coordinator, Western Region, Prof. Mohan Rao, UHV cell member, UOM from BITS Pilani and Dr. Lakshmi Varanasi, RTd. Incharge Principal, Jhunjhunwala college. A Posh act seminar was also conducted by consultant expert Prof. Harshada Patil. Disaster management session was organised by professionals. English, Maths and Computer proficiency test were also conducted for the students by the faculties. The students enjoyed all the six days and they gave a very good feedback.



- ❖ FE Orientation day for all the first year students (after second round admission) was conducted on 06.02.2021. It started with a welcome address by our Principal. Our honorable advisor Dr. P.V. Parameshwaran addressed the students followed by Dean FE who highlighted the rules and regulations of the college. A brief placement overview was given by T/P Incharge and Swachata Pledge was taken by students. Later the students joined their department online interaction with the respective department HODs and Faculties. Students attended Student Council, NSS and Professional Chapter interaction sessions also.

- ❖ Promethean: An annual PPT & Poster presentation competition held for FE students on “An Engineer's solution to Environmental Problems.". It was a compulsory event for all the students, where the students presented their ideas in teams with main concern to environmental issues. The First round was held on 3rd Jan 2021 followed by initial screening and the second round held on 31st January, 2021 judged by Dr. Seema Mishra, Director, SIES-IIEM and Dr. Chitra, Professor, SIJESCOM. Workshops were held prior to every round by the Promethean volunteers to guide the First year students with the presentation of their ideas, where the students were exposed to environmental problems of today and they had to come up with innovative solutions.



- ❖ An online PTM was conducted on 13.03.2021 for FE parents. Around 275 parents participated the meeting. Dr Manasi Karkare, Dean FE explained the parents about our college Mission, Vision and the activities undertaken here for the overall development of the students. Prof. Sumitra Padmanabhan as an NBA coordinator of the college highlighted the importance of NBA. Parents actively participated in the meeting and they highly appreciated all the efforts taken by college and faculties to cope up with the current pandemic situation. The meeting ended with a feedback of parents and they gave a good feedback about college and faculties.
- ❖ EDC Cell Orientation for FE students in collaboration with EDC Cell SIESGST. It was a one hour session for all the divisions during 22.02.2021 to 27.02.2021.
- ❖ SDP session on “Awareness of MOOCs, Coursera and NPTEL” for FE Students.
- ❖ SDP session on "MOOC platform: Extract maximum" for FE Student to clear their doubts and to tools used in MOOC on 27th June 2021.
- ❖ SDP seminar on “Conventional-thinking to Engineering-attitude” for FE students by Mr Siddharth Sampath, Alumni of SIES – GST on 31 May 2021, from 9 am to 10.30 am.

Career Post Engineering Graduation

- Corporate Company
- Business
- Further Studies in Engineering
- MBA
- Startup
- Government Services

9. Seminars/workshops attended by departments:

(i) Dr. Manasi Karkare

- ❖ Participated in a one week FDP on “Nanotechnology and its applications” by Rajarshi Shahu College, during 23.10.2020 to 28.10.2020.
- ❖ Completed AICTE FDP on Design Thinking between Dec 7 to Dec 12, 2020 organised by Vidyalkar Institute of Technology, Mumbai

(ii) Prof. Sumitra Iyer

- ❖ Completed FDP- QIP in Machine Learning Techniques, IIT Roorkee, 21-25, Dec 2020.
- ❖ Completed FDP on UHV conducted by NIT Patna during 23-27, Nov 2020.

(iii) Dr. Manasi Karkare, Prof. Sumitra Iyer and Dr. G. Kanthimathi participated in National Education conclave on “Re-imagining University Education with a Heart Centered Approach” on Jan 12th and 13th Jan 2021.

(iv) Prof. Pratibha Sharma

- ❖ Attended Orientation program of revised syllabus of Engineering Mathematics- III,IV for Group B,C on 29/07 and 31/07/2020.
- ❖ Attended online FDP on Universal Human Values on Inculcating Human values in Technical Education" during 28/07/2020 to 2/08/2020 organised by AICTE.
- ❖ Attended one week FDP on “Research Methods in Science, Engineering & Technology (RPROF.ET)”Organized by Department of Mechanical engineering, VOGCE, Shahpur,Thane conducted during May 2 - 6, 2021.

(v) Prof. Seema Khan attended

- ❖ Five days online FDP on "Inculcating Universal Human Values" organized by AICTE, from 19 to 23 April 2021.
- ❖ Career Guidance Webinar by Abhishek Gupta, founding member, BYJUS on 01 April 2021.
- ❖ Webinar "College to Corporate" by Vinutha Kale, Founder, Deeva Consulting.
- ❖ Coordinated for Campus Recruitment Training by Campus Credential for TE, 11 April 2021 onward
- ❖ Coordinated for and organised Campus Recruitment by Quinnox, Neosoft Technologies, Hewlett-Packard for BE 2021

(vi) Prof. Vijaya Patil

- ❖ Completed “The Clarivate EndNote X9 Certification Series (4 sessions)” on 20 Aug 2020.
- ❖ Attended Online Faculty Orientation programme of Engineering Mathematics III (EM-III) and Engineering Mathematics IV (EM-IV), Pillai College of Engineering on behalf of University of Mumbai on 29th July 2020 for EXTC.
- ❖ ORIENTATION OF EM-III and EM-IV, organised by Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai on 31st July 2020 for MECH and PPT.
- ❖ Successfully completed the 'Global Online Certification Course on Supply Chain Digitization and Management' conducted by the National Institute of Industrial Engineering (NITIE), Mumbai.
- ❖ Organized SDP seminar on “Conventional-thinking to Engineering-attitude” for FE students by Mr Siddharth Sampath, Alumni of SIES – GST on 31 May 2021

(vii) Dr. Smitha Kumar participated in

- ❖ One week online FDP on “Advanced Materials Fabrication, Characterization and Applications” from 20th-25th July, 2020” Organized by School of Mechanical Engineering, Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar.
- ❖ One Week STTP on ‘Innovations in Physics & Chemistry’ from 18th to 23rd May 2021, by Department of Basic Sciences by Annasaheb Dange College of Engineering & Technology, Ashta

(viii) Prof. Ashwin Chavan, Dr. Savita Katiyar, Dr. G. Kanthimathi, Dr. Ram Bhise attended 5-day online FDP on DEEKSHARAMBH (Student Induction Program) organized by NIT Patna during 10-14 August 2020.

(ix) Prof. Ashwin Chavan attended International Webinar Series on Applications of Mathematics organized by the Department of Mathematics, Gurucharan College, Silchar from 20th - 22nd August 2020.

(x) Dr. Geetanjali Mishra and Dr. G. Kanthimathi attended TEQUIP-III sponsored 5 day FDP on Recent Pedagogy and ICT tools in Teaching and Research organized by IIT-Roorkee and NIT Uttarakhand, August 27 - 31 2020.

- (xi) **Dr. Geetanjai Mishra** attended online workshop -AICTE Incorporating Universal Human Values in Technical Education from July 28, 2020 to Aug 1, 2020.
- (xii) **Dr. Savita Katiyar** attended 3-Days FDP on "Interactive-Impactful E-Learning Techniques" organised by K.C. College of Engineering, Thane from 18 to 20 July 2020.
- (xiii) **Dr. G. Kanthimathi** attended “International short Course on Advanced Physics” organized by Department of Physics, K. J. Somaiya College of Science and Commerce, Mumbai from 6th to 8th August, 2020.
- (xiv) **Dr. Ram Bhise**
- ❖ Completed One-Week FDP on “Teaching English for Employability and Skill Enhancement” 17th August 2020 to 21st August 2020 organized under CRS TEQIP-III by College of Technology and Engineering, MPUAT, Udaipur.
 - ❖ Completed series of “AE E-Teacher Program Winter 2020 “Using Educational Technology in the English Language Classroom Self- Paced (MOOC)”, facilitated by Iowa State University on 7th July 2020.
 - ❖ English for Media Literacy self-paced massive open online course (MOOC)” on 17th July 2020.
 - ❖ Integrating Critical Thinking Skills into the Exploration of Culture in an EFL Setting self-paced (MOOC)” on 20th July 2020.
 - ❖ English for Journalism in an EFL on 25th July 2020.
 - ❖ Attended ten days Online International Symposium on Thought-Experimentation in Humanities, Science and Science Fiction organized by Shri Muktanand College, Aurangabad on 21-30 July, 2020.