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DEPARTMENT OF MECHANICAL ENGINEERING

**ANNUAL REPORT**

**01 July 2019 to 31 December 2019**

**First Half: 01 July 2019 to 31 December 2019**

**Second Half: 01 January 2020 to 30 June 2020**

**INTRODUCTION**

|  |  |
| --- | --- |
| Year of Establishment | **1992** |
| UG Programmes | **Mechanical – 1992, Mechanical SW - 1994** |
| PG Programmes | **ME (Automotive)- 2010 , ME (Design ) - 2014** |
| Number of Teaching Staff | **31** |
| Number of Non-Teaching Staff | **09** |

**LABORATORIES IN THE DEPARTMENT**

|  |  |  |  |
| --- | --- | --- | --- |
| Sr.No. | Name of the Laboratory | Sr.No. | Name of the Laboratory |
| 1 | Heat Engines Lab | 12 | CAD Lab |
| 2 | Metallurgy Lab | 13 | CAE Lab |
| 3 | Heat Transfer Lab | 14 | Computer Graphics Lab |
| 4 | TOM Lab | 15 | Computer Centre |
| 5 | DOM Lab | 16 | BME Lab |
| 6 | Drawing Hall | 17 | Central Facility |
| 7 | Fluid Machinery Lab | 18 | Mechatronics |
| 8 | Fluid Power Lab | 19 | Automotive System Lab |
| 9 | RAC Lab | 20 | Automotive Chassis Lab |
| 10 | MQC Lab | 21 | PG Software Lab Auto |
| 11 | In-house Project | 22 | PG Design Lab |

**SOFTWARES AVAILABLE IN THE DEPARTMENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **S N** | **Softwares Available** | **S N** | **Softwares Available** |
| 1 | PRO/E WILDFIRE 4.0 | 7 | Master CAM X 9 |
| 2 | MatLab 7.0 Common | 8 | Auto Desk Product AutoCAD 2009 |
| 3 | MATLab 10 Common | 9 | Altair Hyper Works 125 Hyper |
| 4 | ANSYS Software 13.0 | 10 | MSC ADAMS software 5 users |
| 5 | Matlab 16 B Academic version | 11 | MATLAB R2014a |
| 6 | ANSYS Software 16.02 |  |  |

**FACULTY IN THE DEPARTMENT**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr No** | **Name of the staff** | **Designation** | **Sr No** | **Name of the staff** | **Designation** |
| 1 | Dr B D Bachchhav | Professor | 17 | Mr O A More | Asstt Prof |
| 2 | Dr A V Waghmare | Asso Prof | 18 | Mrs A T Thombare | Asstt Prof |
| 3 | Dr D Y Dhande | Asso Prof | 19 | Mr M S Swami | Asstt Prof |
| 4 | Dr M R Phate | Asso Prof | 20 | Mr G P Lohar | Asstt Prof |
| 5 | Dr Mrs P S Gajjal | Asso Prof | 21 | Mrs M P Shah | Asstt Prof |
| 6 | Dr M S Deshmukh | Asso Prof | 22 | Mr M R Dahake | Asstt Prof |
| 7 | Dr S V Chaitanya | Asstt Prof | 23 | Mr M P Bauskar | Asstt Prof |
| 8 | Mr S R Patil | Asstt Prof | 24 | Mr V S Wagare | Asstt Prof |
| 9 | Mr P V Deshmukh | Asstt Prof | 25 | Mr K L Kumbhar | Asstt Prof |
| 10 | Dr C S Choudhari | Asstt Prof | 26 | Mr S S Vadgeri | Asstt Prof |
| 11 | Mr A P Desale | Asstt Prof | 27 | Mr D S Mane | Asstt Prof |
| 12 | Mr R A Marne | Asstt Prof | 28 | Miss S S Patil | Asstt Prof |
| 13 | Dr C S Dharankar | Asstt Prof | 29 | Mr N N Gotkhindikar | Asstt Prof |
| 14 | Dr S J Navale | Asstt Prof | 30 | Mr A R Takalkar | Asstt Prof |
| 15 | Mr M U Gan | Asstt Prof | 31 | Mr K S Kolambe | Asstt Prof |
| 16 | Mr P S Aglawe | Asstt Prof |  |  |  |

**DETAILS OF SUPPORTING STAFF**

|  |  |  |
| --- | --- | --- |
| **Sr No** | **Name of the Technical staff** | **Designation** |
| 1 | Mr.D.S.Kulkarni | Tech Asstt |
| 2 | Mr.S.K.Jogdand | Lab Asstt |
| 3 | Mr.A.A.Jachak | Lab Asstt |

|  |  |  |
| --- | --- | --- |
| **Sr No** | **Name of the Non teaching staff** | **Designation** |
| 1 | Mr.G.B.Mate | Attendent |
| 2 | Mr.R.D.Nalavade | Attendent |
| 3 | Mr.P.D.Mahajan | Attendent |
| 4 | Mr Pramod Pharande | Attendent |
| 5 | Mr Sachin Waghmare | Attendent |
| 6 | Mr Rajesh Amolik | Attendent |

**STUDENTS’ ENROLLMENT**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Programm** | **GEN** | | **SC** | | **ST** | | **OBC** | | **PWD** | | **Others** | | **Total** | |
|  | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** | **M** | **F** |
| **UG (Mech) Division I** | **28** | **04** | **11** | **01** | **00** | **00** | **28** | **05** |  |  | **25** | **5** | **92** | **15** |
| **UG (Mech) Division II** | **Above data includes DivI & II** | | | | | | | | | | | | | |
| **UG (Mech SW)** | **20** | **2** | **6** | **0** | **0** | **0** | **10** | **1** |  |  | **13** | **0** | **49** | **3** |
| **PG ( Auto)** | **4** | **0** |  |  |  |  |  |  |  |  |  |  |  |  |
| **PG (Design)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Students–Faculty Feedback Details (\*) (Not to be included in annual report)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr No. | Name of faculty | Class and Subject taught | Feedback (I) (%) | Feedback (II) (%) | Average  Feedback (%) |
| 1 | Dr B D Bachchhav | Metrology & QC (TE M A) | 80 | 85 | 82.5 |
| 2 | Dr A V Waghmare | BE Mech (A)  Hydraulics & Pneumatics | 81 | 85 | 83 |
| Dr A V Waghmare | BE Mech (B)  Hydraulics & Pneumatics | 76 | 79 | 77.5 |
| 3 | Dr D Y Dhande | Applied Computer Aided Engineering (TE Mech SW) | 93 | 93 | 93 |
| 4 | Dr M R Phate | BE (Mech B) Operation Research | 96 | 97 | 96.5 |
| 5 | Dr Mrs P S Gajjal | Strength of Materials | 79 | 88 | 83.5 |
| 6 | Dr M S Deshmukh | ET  EAM  RAC TE B | 89  88  87 | 92  93 | 91  91  87 |
| 7 | Dr S V Chaitanya | Operations Research | 82 | 83 | 82.5 |
| 8 | Mr S R Patil | Design of Machine Elements I  TE Mech.B | 82 | 91 | 86.5 |
| 9 | Mr P V Deshmukh | BE Mech (B) CAD/CAM and Automation | 78 | 79 | 78.5 |
| 10 | Dr C S Choudhari | Refrigeration and Air Conditioning Div SW | 88 | 90 | 89 |
| 11 | Mr A P Desale |  |  |  |  |
| 12 | Mr R A Marne | Machine Design  TE Mech Sand | 92 | 95 | 94.5 |
| 13 | Dr C S Dharankar | BE Mech (A)  Dynamics of Machinery | 87 | 88 | 87.5 |
| 14 | Dr S J Navale | Heat Transfer TE Mech | 79 | 85 | 82 |
| 15 | Mr M U Gan | T E AND B MECH A Turbo Machines | 88 | 87 | 87.5 |
| 16 | Mr P S Aglawe | BE Mech (A) CAD/CAM & Automation | 89 | 88 | 88.5 |
| 17 | Mr O A More | T.E.MS Mechatronics | 87 | 88 | 87.5 |
| 18 | Mrs A T Thombare | TOM II TE A | 83 | 86 | 84 |
|  | Mrs A T Thombare | TOM II TE B | 78 | 82 | 80 |
| 19 | Mr M S Swami |  |  |  |  |
| 20 | Mr G P Lohar | TE SE MECHSAND | 82 | 80 | 81 |
| 21 | Mrs M P Shah | FEA | 85 | 82 | 83.5 |
| 22 | Mr M R Dahake | Heat Transfer TE M B | 82 | 86 | 84 |
| 23 | Mr M P Bauskar | TE Mechanical B  MQC | 83 | 88 | 84 |
| 24 | Mr V S Wagare | TE MS NMO | 87 | 90 | 88.5 |
| 25 | Mr K L Kumbhar | SE Mech S/W Fluid Mechanics & Machinery | 81 | 87 | 84 |
| 26 | Mr S S Vadgeri | BE Mech (B)  Dynamics of Machinery | 87 | 88 | 87.5 |
| 27 | Mr D S Mane | Manufacturing Processes I | 82  77 | 82  80 | 82  78.5 |
| 28 | Miss S S Patil | Design of machine elements | 82 | 81 | 81.5 |
| 29 | Mr N N Gotkhindikar | SE Mech S/W Material Science and Metallurgy | 88 | 91 | 89.5 |
| 30 | Mr A R Takalkar |  |  |  |  |
| 31 | Mr K S Kolambe | SE Mech (S/W) Strength of Materials | 77 | 83 | 80 |

**RESULT ANALYSIS (LAST TERM)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sr No. | Name of faculty | Class and Subject Taught | % passing | Sr No. | Name of faculty | Class and Subject Taught | % passing |
| 1 | Dr B D Bachchhav | TE Mech (A)  MQC | 93.75 | 17 | Mr O A More | TE Mech(A)- Mechatronics | 98.48 |
| TE Mech (B)-  Mechatronics | 98.51 |
| 2 | Dr A V Waghmare | BE Mech (A)  Hydraulics & Pneumatics | 90.1 | 18 | Mrs A T Thombare | TE A TOM II | 93.75 |
| BE Mech (B)  Hydraulics & Pneumatics | 97.1 | TE B TOM II | 80.6 |
| 3 | Dr D Y Dhande | DME II | 90.28 | 19 | Mr M S Swami | SE MECH A  MS  SE MECH B  MS | 84  86 |
| 4 | Dr M R Phate | Operation Research (BE B) |  | 20 | Mr G P Lohar | SE Mechsand | 87 |
| 5 | Dr Mrs P S Gajjal | Strength of Material SE A | 67 | 21 | Mrs M P Shah | BEM A  EL-1-Finite Element Analysis  BEM B  EL-1-Finite Element Analysis | 80.3  84.1 |
| 6 | Dr M S Deshmukh | ET  EAM  RAC | 95.31  97.14  98.55 | 22 | Mr M R Dahake | HT TE M B | 78 |
| 7 | Dr S V Chaitanya | Operations Research | 94.11 | 23 | Mr M P Bauskar | MQC TEMB | 88 |
| 8 | Mr S R Patil | Design of Machine Elements I  TE Mech.B |  | 24 | Mr V S Wagare | TE Mech SW-NMO | 90.48 |
| 9 | Mr P V Deshmukh | BE Mech (B)  CAD/CAM and  Automation | 98.6 | 25 | Mr K L Kumbhar | SE Mech S/W Fluid Mechanics & Machinery |  |
| 10 | Dr C S Choudhari | Heat Transfer | 77.78 | 26 | Mr S S Vadgeri | BE Mech (B)  Dynamics of Machinery | 87 |
| 11 | Mr A P Desale |  |  | 27 | Mr D S Mane | Manufacturing Processes I |  |
| 12 | Mr R A Marne | Machine Design  TE Mech Sand | 80 | 28 | Miss S S Patil |  |  |
| 13 | Dr C S Dharankar | BE Mech (A)  Dynamics of Machinery | 92 | 29 | Mr N N Gotkhindikar | SE M/S  Material Science and Metallurgy |  |
| 14 | Dr S J Navale | Heat Transfer TE Mech A | 81.25 | 30 | Mr A R Takalkar |  |  |
| 15 | Mr M U Gan | Turbo machines (T E A)  Turbo machines (T E B) | 77  79.1 |  | Mr K S Kolambe | SE M/S  Strength of Materials |  |
| 16 | Mr P S Aglawe | Cad Cam & Automation  BE Mech B | 98.6 |  |  |  |  |

**Class Result Analysis (LAST TERM) May 2019**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SN** | **Class** | **No. Of Students** | | | | | | | | | | **Percentage of Passing** | |
| **Appeared** | **Clear Passed** | **Outstanding**  **(O)**  **(9 -10)** | **Excellent**  **(A+)**  **(8.5 – 8.99)** | **Very Good (A)**  **(7.5 – 8.49)** | **Good (B+)**  **(6.5 – 7.49)** | **Above Average (B)**  **(5.5 – 6.49)** | **Average (4.25 – 5.49)Class** | **Pass Class**  **(4 – 4.24** | **Fail**  **(F)**  **0 – 3.99** | **All Clear** | **With ATKT** |
| **1** | **SE (M) A** | **74** | **41** | **1** | **1** | **7** | **22** | **3** | **7** |  | **5** | **47.22** | **91.67** |
| **2** | **SE(M) B** | **80** | **40** | **1** | **3** | **15** | **21** |  |  |  | **7** | **62.12** | **93.94** |
| **3** | **TE(M) A** | **72** | **41** | **1** | **5** | **18** | **13** | **4** |  |  |  | **56.94** | **95.83** |
| **4** | **TE(M) B** | **73** | **48** | **1** | **7** | **20** | **15** | **5** |  |  |  | **65.75** | **97.26** |
| **5** | **BE(M) A** | **66** | **65** | **1** | **7** | **31** | **19** | **2** | **5** |  | **1** | **98.48** |  |
| **6** | **BE(M) B** | **56** | **55** | **1** | **13** | **23** | **17** | **1** |  |  | **1** | **98.21** |  |
| **7** | **SE (MS)** | **66** | **35** | **1** | **2** | **11** | **17** | **4** |  |  | **31** | **53.03** | **100** |
| **8** | **TE (MS)** | **61** | **43** | **0** | **13** | **28** | **2** |  |  |  |  | **70.49** | **93.44** |
| **9** | **BE (MS)** | **69** | **67** | **4** | **7** | **31** | **19** | **6** |  |  |  | **97.10** |  |

**UNIVERSITY RANKERS (LAST ACADEMIC YEAR)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr No** | **Name of the Ranker** | **Class** | **Rank** |
|  |  |  |  |
|  |  |  |  |

**ACHIEVEMENTS OF FACULTY** (AWARDS, RECOGNITION, PHD COMPLETION ETC.)

|  |  |  |
| --- | --- | --- |
| **SN** | **Name of Faculty** | **Awards & Recognition** |
| 1 | Dr S V Chaitanya | PhD Completed |

**CONTRIBUTION OF FACULTY (Interaction with the outside world)**

|  |  |  |
| --- | --- | --- |
| **SN** | **Name of Faculty** | **Nature and details of contribution (Representation at University, State, National , International level)** |
| 1 | Dr A V Waghmare | Member, Board of Studies, Automobile and Mechanical Engineering, SPPU, Pune |
| 2 | Dr A V Waghmare | Member, Engineering Education Board, SAEINDIA |
| 3 | Dr A V Waghmare | Convener, Student Convention, SAEINDIA WS |
| 4 | Dr A V Waghmare | Worked as a committee member at various levels of SPPU |
| 5 | Dr B D Bachchhav | Member, Board of Studies, Mechanical and Materials Technology, SPPU, Pune. |
| 6 | Dr D Y Dhande | Editorial Board Member, Nanoscience and Nanotechnology, Whioce Publications, Singapore |
| 7 | M P SHAH | Subject Chairman |

**FUNDED RESEARCH PROJECT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S N** | **Principal Investigator** | **Title of the Project** | **Amount Received (Rs)** | **Funding Agency** |
| 1 | Dr B D Bachchhav | Tribological Performance Evaluation of Non-asbestos organic Brake Pad Materials | 25000/- | IE(I) R&D Cell |
| 2 | P V Deshmukh | Wind Analysis of Canopy, Pitch-roof and Square Tall Building with Different Shape Using Wind Tunnel and CFD | 20000 | IEI R&D Cell  Technical Department  The Institution of Engineers (India) |

**FDP/STTP/SEMINARS/CONFERENCES/WORKSHOPS/ SYMPOSIUMS ORGANIZED BY THE DEPARTMENT (For Faculty)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S N** | **Name of Coordinator/s** | **Title of the FDP/STTP/WS/Seminar/Symposium** | **Duration/ Dates** | **No. of Participants** | **Funding Agency**  **(If any) and Amount (Rs.)** |
| **1** | Dr A V Waghmare | Baja SAEINDIA 2020  “Design Mega Workshop” | Sept. 14-15, 2019 | 76 | SAEINDIA |
| 2 | Dr B D Bachchhav  Dr A V Waghmare | Syllabus implementation workshop on “Systems in Mechanical Engineering | July 8, 2019 | 110 | SPPU, Pune |
| 3 | Dr A V Waghmare | ‘Speak for India’ a debate competition. District level. | August 10 and 19, 2019 | 130 and 80 | Times Group |
| 4 | Dr P S Gajjal and Dr A V Waghmare | AICTE sponsored one week STTP on, “Advances in Tribology” | 4-9 Nov. 2019. | 61 | AICTE |
| 5 | Dr A V Waghmare and Prof A R Takalkar | Installation of ‘Fluid Power Chapter’ | Sept 30, 2019 | 57 | Fluid Power Society of India |
| 5 | Dr. M S Deshmukh, Dr. D. Y. Dhande, Dr. M. R. Phate | International Conference on Mechanical Engineering for Sustainable development- ICMESD-2020 | 17-18 Feb 2020 | 67 | QIP SPPU |

**FDP/STTP/SEMINARS/CONFERENCES/WORKSHOPS/ SYMPOSIUMS ATTENDED BY THE DEPARTMENT FACULTY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S N** | **Name of Faculty** | **Title of the FDP/STTP/WS/Seminar/Symposium** | **Organized by** | **Duration and Date** |
| 1 | N N Gotkhindikar | STTP-Advances in Tribology | AISSMS COE,Pune | 4th to 9th Nov 2019(1 Week) |
| 2 | N N Gotkhindikar | FDP-Engineering Metrology | NPTEL | July to Oct 2019(1,5 Weeks) |
| 3 | R A Marne | FDP on “Awareness on open resource platform for online learning , research and self study” | AISSMS COE,Pune | 4 october 2019 |
| 4 | K.L.Kumbhar | One week AICTE Sponsored STTP-Advances in Tribology | AISSMS COE,Pune | 4th to 9th Nov 2019(1 Week) |
| 6 | R A Marne | FDP on “Health awareness at workplace” | AISSMS COE, Pune | 11 october 2019 |
| 7 | M U GAN | FDP Heat Exchanger Fundamentals and Design Analysis | NPTEL | July to Oct 2019 (1.5 Weeks) |
| 8 | Dr S.J.Navale | FDP Heat Exchanger Fundamentals and Design Analysis | NPTEL | July to Oct 2019(1.5 Weeks) |
| 9 | Dr S.J.Navale | FDP IC Engines and Gas Turbines | NPTEL | Jan to April 2019(1.5 Weeks) |
| 10 | D S Mane | Syllabus Implementation for subject SME | AISSMS COE | 8th July 2019 |
| 11 | D S Mane | STTP: Advances in Tribology | AISSMS COE | 4-9 November 2019(One Week) |
| 12 | D S Mane | FDP : Fundamental Of Manufacturing Processes | NPTEL | July to Oct 2019(1.5 Weeks) |
| 13 | S.R.Patil | FDP on “Health awareness at workplace” | AISSMS COE, Pune | 11 october 2019 |
| 14 | S.R.Patil | One week AICTE QIP STTP on “Conveyor Technology for Bulk Material Transport” | IIT,Kharagpur. | 14th to 20th Oct.,2019 |
| 15 | S.R.Patil | One week AICTE Sponsored STTP on “Advances in Tribology” | AISSMS College of Engineering, Pune | 4th to 9th Nov.,2019 |
| 16 | M P Bauskar | One week AICTE Sponsored STTP-Advances in Tribology | AISSMS COE,Pune | 4th to 9th Nov.,2019 |
| 17 | M P Bauskar | FDP on Introduction to Research | NPTEL | July2019 to oct 2019 |
| 18 | M R Dahake | AICTE sponsored two week FDP on “Innovations in ICT Teaching Learning- A Step Towards Digital India”. | VIT Pune | 26th Nov 2019 to 06th Dec 2019 |
| 19 | A R Takalkar | STTP: Advances in Tribology | AISSMS COE | 4-9 November 2019(One Week) |
| 20 | Dr. C S Dharankar | Workshop: Advances in Measurement and Analysis of Vibration and Noise | VIIT, Pune | 9-10 Jan 2020 (Two days) |
| 21 | Dr. C S Dharankar | FDP on “Health awareness at workplace” | AISSMS COE, Pune | 11 october 2019 |
| 22 | O A More | Workshop: Advances in Measurement and Analysis of Vibration and Noise | VIIT, Pune | 9-10 Jan 2020 (Two days) |
| 23 | O.A.More | FDP on “Health awareness at  workplace” | AISSMS COE,  Pune | 11 october  2019 |
| 24 | O.A.More | FDP on “Innovation by Design” | NPTEL | Aug2019to  Sept 2019 |
| 25 | Dr. M R Phate | FDP :Mathematical Modeling of Manufacturing Processes | NPTEL | July to Oct 2019(1.5 Weeks) |
| 26 | Dr. M R Phate | STTP :Problem Based Learning (ICT15) | SITS Narhe | 02/12/2019-06/12/2019 |
| 27 | S S Vadgeri | One week AICTE Sponsored STTP-Advances in Tribology | AISSMS COE,Pune | 4th to 9th Nov 2019(1 Week) |
| 28 | S S Vadgeri | Syllabus Implementation for subject SME | AISSMS COE,Pune | 8th July 2019 |
| 29 | S S Vadgeri | Symposium on Internet of Things (SIoT-2K19) | COEP | 2nd Nov 2019 |
| 28 | S S Vadgeri | Outcome Based Education System | AISSMS COE,Pune | 9-14 December 2019 (One Week) |
| 29 | M U GAN | FDP IC Engines And Gas Turbines | NPTEL | Jan to April 2019 (1.5 Weeks) |
| 30 | K L Kumbhar | Outcome Based Education System | ISTE | 9-14 December 2019 (One Week) |
| 31 | K S Kolambe | Outcome Based Education System | ISTE | 9-14 December 2019 (One Week) |
| 32 | V S Wagare | STTP: Advances in Tribology | AISSMS COE | 4-9 November 2019(One Week) |
| 33 | V S Wagare | Outcome Based Education System | ISTE | 9-14 December 2019 (One Week) |
| 34 | V S Wagare | STTP “Advances in Tribology” | IISC Bangalore | 4-9 NOV.2019 (One Week) |
| 35 | Dr A V Waghmare | Online course on ‘Accreditation of Undergraduate Engineering Programmes’ | Swayam | 8 week |
| 36 | Dr A V Waghmare | Online course on ‘ICT in Teaching and Learning’ | Swayam | 8 week |
| 37 | Dr A V Waghmare | Online course on ‘Fundamental of Outcome Based Curriculum in Engineering Education’ | Swayam | 8 week |
| 38 | Dr P S Gajjal | AICTE sponsored two week FDP on “Innovations in ICT Teaching Learning- A Step Towards Digital India”. | VIT Pune | 26th Nov 2019 to 06th Dec 2019 |
| 39 | Dr P S Gajjal | FDP on Introduction to Research | NPTEL | July2019 to oct 2019 |
| 40 | Dr D Y Dhande | STTP “Advances in Tribology” | IISC Bangalore | 4-9 NOV.2019 (One Week) |
| 41 | Dr D Y Dhande | One week AICTE Sponsored STTP on “Advances in Tribology” | AISSMS College of Engineering, Pune | 4th to 9th Nov.,2019 |
| 42 | Dr D Y Dhande | Online NPTEL course on “Fundamentals of Surface Engineering : Mechanisms, Processes and Characterizations” | NPTEL (IIT, Roorkee) | July -Oct2019 |
| 43 | A T Thombare | One week AICTE Sponsored STTP on “Advances in Tribology” | AISSMS College of Engineering, Pune | 4th to 9th Nov.,2019 |
| 44 | M P SHAH(Chokshi) | One week AICTE Sponsored STTP on “Advances in Tribology” | AISSMS College of Engineering, Pune | 4th to 9th Nov.,2019 |
| 45 | A T Thombare | Online FDP on Product design using value engineering | NPTEL-AICTE | July-August 2019 |
| 46 | M P SHAH(Chokshi) | FDP Course- Vision Mission PEO PSO PO CO : Framing, Mapping, Assessment and Attainment | AISSMS, COE  (ISTE approved ) | 10th to 15th June 2019 |
| 47 | M P SHAH(Chokshi) | FDP Course-Product Design & Development using Value engineering  (Funded by MHRD) | NPTEL Course(IIT Madras) | July-August 2019 |
| 48 | S S Patil | FDP Course - Vision Mission PEO PSO PO CO : Framing, Mapping, Assessment and Attainment | AISSMS, COE  (ISTE approved ) | 10th to 15th June 2019 |
| 49 | S S Patil | One week AICTE SPONSORED STTP on “Advances in Tribology” | AISSMS College of Engineering, Pune | 4th to 9th Nov.,2019 |
| 50 | M U Gan | Outcome Based Education System | AISSMS COE,Pune | 9-14 December 2019 (One Week) |
| 51 | Dr. M. S. Deshmukh | One week on line FDP program on Q Cad | Spoken Tutorial IIT Bombay | 24 Apr 2020 |
| 52 | Dr. M. S. Deshmukh | One week on line FDP program on LaTeX programming | Spoken Tutorial IIT Bombay | 28 April to 4 may 2020 |
| 53 | Dr. M. S. Deshmukh | One week on line FDP program on R programming | Spoken Tutorial IIT Bombay | 28 April to 4 may 2020 |
| 54 | Dr. M. S. Deshmukh | Coursera 7 week certificate course on Fundamental of Fluid Power. | Coursera | 01 June 2020 |
| 55 | Dr. M. S. Deshmukh | Coursera 6 week certificate course on Chinese for Beginners. | Coursera | 29 May 2020 |
| 56 | Dr. M. S. Deshmukh | Coursera 8 week certificate course on Understanding Research Methods. | Coursera | 28 May 2020 |
| 57 | Dr. M. S. Deshmukh | Coursera 8 week certificate course on Introduction to Thermodynamics | Coursera | May18, 2020 |
| 58 | Dr. M. S. Deshmukh | NBA Accreditation and Teaching-Learning in Engineering (NATE) | NPTEL Course | 12 Week, 27 Jan - 17 April 2020 |
| 59 | Dr. M. S. Deshmukh | A STTP Advances in Tribology | AISSMSCOE Pune | 4/11/20 to 9/11/20 |
| 60 | Dr. M. S. Deshmukh | Online Faculty Development Program (“Outcome Based Education : A Step Towards Excellence") | Govt. College of Engineering in collaboration with AICTE Margdarshan Mentee Institutes | 11-15 May 2020 |
| 61 | Dr. M. S. Deshmukh | AICTE - ISTE sponsored self-financing online short term training programme on “ Outcome Based Education & Accreditation ” | Department of Mechanical Engineering RGCOE, Amaravati. | 26/05/2020 to 30/05/2020 |
| 62 | Dr. M. S. Deshmukh | FDP Course-Vision Mission PEO PSO PO CO : Framing, Mapping, Assessment and Attainment (ISTE approved ) | AISSMSCOE Pune | 10/06/19 to 15/06/19 |

**EXTENSION LECTURES (LECTURES DELIVERED BY VISITING GUESTS)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S N** | **Name of faculty coordinator** | **Topic** | **Name and contact details of guest** | **Date** |
| 1 | S S Vadgeri | Orientation and Appreciation Session on “Sandwich Industrial Training” | Mrs. Tanuja Indi, Managing Director, INDITECH VALVES Pvt. Ltd. Pune. | 7th January, 2020 |
| 2 | Dr A V Waghmare | Hydraulic System | Mr. Prasanna Umarani, Slimline Hydrotek, Pune | 30 Sept 2019 |
| 3 | M P Bauskar | Lecture on Lean Six sigma White Belt | Mr Michael Testani | 29 January 2020 |

**FACULTY SERVED AS a RESOURCE PERSON, EXPERT OR CHAIRPERSON**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S N** | **Name of Faculty** | **Title of Activity** | **Organizing body** | **Date** |
| 1 | Dr B D Bachchhav | Expert Talk in AICTE sponsored One week STTP on Advances in Tribology | AISSMS COE | 7/11/2019 |
| 2 | Dr A V Waghmare | Resource person at ‘Two Week AICTE-FDP on OBE’ on Alumni Engagements | DYP, Akurdi | 6/11/2019 |

**EXTENSION ACTIVITIES CONDUCTED BY THE DEPARTMENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **S N** | **Name of Faculty Coordinator** | **Details of activity conducted** | **Date** |
| 01 | Dr C S Choudhari | Interdepartmental quiz on “Robotics and Automation | 04/10/2019 |

**MOU SIGNED WITH ACADEMIC AND PROFESSIONAL ORGANISATIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Faculty Coordinator** | **Name of Organisation** | **Date**  **of MoU Signed** | **Valid upto**  **00/00/0000** |
| 1 | M P Bauskar | Mettchnik Pvt Ltd | 10/10/2019 | 10/10/2024 |
| 2 | Dr S.J.Navale | Avishkar Engineers Pvt.Ltd | 31/12/2019 | 31/12/2020 |
| 3 | D S Mane | Suntech Landriani Machine Tools Pvt Ltd | 08/08/2018 | 07/08/2021 |
| 4 | P.S.Aglawe | eAdicct Mobility Solution Pvt Ltd | 21/08/2017 | 21/08/20 |
| 5 | D S Mane | Nemade Engineers Pvt Ltd | 08/08/2018 | 07/08/2021 |
| 6 | M P SHAH(CHOKSHI) | Raviraj Hitech Pvt. Ltd | 06/10/2017 | 06/10/2020 |

**STUDENTS’ CHAPTERS /CLUBS**

|  |  |  |
| --- | --- | --- |
| **S. No** | **Name of Students’ Chapter** | **Number of Student Members** |
| 1 | SAEINDIA | 64 |
| 2 | FPSI | 54 |
| 3 | IMechE | 80 |
| 4 | IE | 18 |
| 5 | ISHRAE | 11 |

**EVENTS ORGANISED (By Students’ Chapters / Clubs and others)**

**Name of Students’ Chapter: SAEINDIA**

**Faculty Advisor: Dr A V Waghmare and Dr C S Dharankar**

|  |  |  |  |
| --- | --- | --- | --- |
| **SN** | **Event name and details of event** | **Details of faculty and students involvement, Name of chief guest, judges etc.** | **Duration and Dates** |
| 1. | BAJA-Competition Participation | 1.Participated in Virtual BAJA at Chitkara University, Chandigad  2.Participate in M-BAJA at NATRAX Facility, Pithampur, MP  3.Participated in International Virtual BAJA and secured a $500 prize. | 11-13 July 2019  Jan 2020  June 2020 |
| 2. | SUPRA-Competition Participation | Participated in SUPRA Competition at Buddh International Circuit,Greater Noida. | 15-20 July 2019 |
| 3. | Efficycle-Competition Participation | -Team participated in SAE EFFI-CYCLE 2019 at Lovely Professional University, Punjab  -Team secured 4th rank in Advanced Format | 1st october to 5th october, 2019 |
| 4. | Aero Design-Competition Participation at National and International | **International:**  Team participated in Van Nuys, California  • 5 th in technical presentation in SAE INTERNATIONAL advanced class 2019.  • 13th amongst the 75 International teams in Advanced Class 2019. | 5 -7 April 2019. |
| **National:**  Team Garudashwa participated in the 4th Annual SAE ISS Aero Design Challenge in both Regular and the Micro Class Categories.  Micro class :  Overall result – 2𝑛 in India.  Regular class :  4th in report 5th in presentation | 19th-21st July 2019 |
| 5. | TIFAN-Competition Participation | Competition postponed due to COVID | 18 March 2020 |
| 6. | Organised: BAJA Workshop | Organised ATV Room for students of other institutions. |  |

**Name of Students’ Chapter: INSTITUTE OF ENGINEERING**

**Faculty Advisor: \_\_M U GAN**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SN** | **Event Name And Details Of Event** | **Details Of Faculty** | **Students Involvement** | **Name Of Chief Guest, Judges Etc.** | **Duration and Dates** |
| 1 | One Minute Talk (BE- B) | S S Vadgeri | 39 | M P Shah And Pv Deshmukh | 11-09-2019 |
| 2 | One Minute Talk--TE- A | A T Thombare | 8 | G P Lohar And A T Thombare | 11-09-2019 |
| 3 | One Minute Talk --TE B | S R Patil | 18 | M U Gan, S S Patil | 11-09-2019 |
| 4 | One Minute Talk --SE A | M S Swami | 31 | Dr.P S Gajjal | 12-09-2019 |
| 5 | One Minute Talk --SE B | Dr.Ms Deshmukh | 48 | M U Gan, Dr.Ms Deshmukh | 11-09-2019 |
| 6 | One Minute Talk --TE M/Sw | V S Wagare | 32 | Dr. C S Choudhari And Dr. D.Y. Dhande | 09-09-2019 |
| 7 | One Minute Talk --Pahse Ii | M U Gan | 24 | Dr. M R Phate And P V Deshmukh | 16-09-2019 |
| 8 | One Minute Talk-SE M/S | N N Gotkhindikar | 39 | G P Lohar, P V Deshmukh | 09.09.2019 |

**PAPERS PUBLISHED IN PROCEEDINGS OF CONFERENCES**

|  |  |  |  |
| --- | --- | --- | --- |
| **S N** | **Authors** | **Title of paper** | **Details of Conference**  **(Name of conference, dates and duration, Organising body details, ISBN)** |
| 1 | Nayan H Dhanvij,  Dr P S Gajjal | Tribological performance evaluation of friction and wear of EN24 for PGT of CNC Bending Machine | ICIAER -2019, Rajuri 18-19 Oct 2019, Shayari Valley College of Engg and Tech,Rajuri |

**PAPERS PUBLISHED IN REFEREED JOURNALS**

|  |  |  |
| --- | --- | --- |
| **S N** | **Authors** | **Paper Details (Paper title, Publication year, Volume no., issue no., Page no.s, Doi, ISSN)** |
| **1** | P V Deshmukh | “Experimental and Finite Element Analysis On the Steel Fiber Reinforced Concrete (SFRC) Beam Under Pure Torsion”, International Journal of Research and Analytical Reviews, E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 6, Issue 2, June 2019 |
| **2** | Dr B D Bachchhav | Kishor N. Hendre, Bhanudas D. Bachchhav., “Friction and Wear Characteristics of Rubber Resin-Bonded Metallic Brake Pad Materials”, International Journal of Engineering and Advanced Technology (IJEAT), Vol: 8, Issue: 6, (August 2019), pp. 1312-1316. |
| **3** | R A Marne | Ajinkya Mali, Rahul Marne,”Finite element analysis comparison of spur gears between standard tooth profile and modified profile”,International Research Journal of Engineering and Technology,(IRJET)e-ISSN:2395-0056,p-ISSN-2395-OO72,volume 6 ,Issue 9, Sept 2019 |
| **4** | Vadgeri S. S., Patil S. R. | Stress Analysis of Carbon Fiber Reinforced Composite Laminate with Different Centrally Located Cutouts, Materials Today: Proceedings (Elsevier), ISSN 2214-7853, 2019 |
| **5** | Bauskar M .P., Dhande, D.Y., Vadgeri S. S., Patil, S.R. | Study of aerodynamic drag of sports utility vehicle by experimental and numerical method, Materials Today: Proceedings (Elsevier), ISSN 2214-7853,2019 |
| **6** | Dr P S Gajjal | “Tribological Parametric Influence of Dry Sintered Iron Bearings”Journal of Emerging Technologies and Innovative Research, ISSN-2349-5162 |
| **7** | Dr P S Gajjal | Wear Model of Dry Sintered Bearing Material by Dimensional Analysis, Journal of Emerging Technologies and Innovative Research, ISSN-2349-5162 |
| **8** | Dr D Y Dhande, Langewar G H & Pande D W . | Implementation of CFD–FSI Technique Coupled with Response Surface Optimization method for Analysis of Three-Lobe Hydrodynamic Journal Bearing, Journal of The Institution of Engineers (India): Series C |
| **9** | Kishor N. Hendre, Bhanudas D. Bachchhav, Harijan H. Bagchi., | “Frictional Characteristics of Brake Pad Materials Alternate to Asbestos”, *International Journal of Engineering and Advanced Technology (IJEAT)*, Vol: 9, Issue: 2, (December 2019), pp. 694-698. |
| **10** | Kathmore P. S; Bachchhav B. D | “Bio-based Lubricant Selection for Metal Cutting Operations Using MADM Technique”, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), ISSN(P): 2249–6890; ISSN(E): 2249–8001, Vol. 9, Issue 6, Dec 2019, 845–858**.** |

**PATENTS, COPYRIGHT, TRADEMARK AND OTHER (IPR)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr No.** | **Name of Faculty** | **Name of the Patent** | **Patent Number and Date** | **Type (National/**  **International/Com**  **mercialized)** |
| 01 | Dr. Mangesh R. Phate | Fabrication of Garbage Disposal Unit FER submission : 23/07/2019 | (2879/MUM/2014)10/09/2014 | National |

**RESEARCH CITATIONS (Source of Data: Google scholar)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S N** | **Name of faculty** | **Citations** |  | **Name of faculty** | **Citations** |
| 1 | Dr. Mangesh R. Phate | 106 | 6 | Dr C S Choudhari | 52 |
| 2 | Dr A V Waghmare | 133 | 7 | Dr P S Gajjal | 48 |
| 3 | S R Patil | 08 | 8 | Dr B D Bachchhav | 16 |
| 4 | S S Vadgeri | 08 | 9 | Dr S J Navale | 21 |
| 5 | K L Kumbhar | 04 |  |  |  |

**Total citations: 364**

**NUMBER OF STUDENTS PLACED**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr No** | **Name of Organization visited** | **Number of students Participated** | **Number of students Placed** |
| **1** | Tata Consultancy Services |  | **1** |
| **2** | I Research Services |  | **2** |
| **3** | Godrej & Boyce |  | **3** |
| **4** | Infosys |  | **3** |
| **5** | Square Yard |  | **2** |
| **6** | A Raymond Fasteners India Pvt. Ltd. |  | **3** |

Lower Package Offered:

Higher package Offered:

Average Package Offered:

**NUMBER OF STUDENTS QUALIFIED IN THE EXAMINATION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **GATE** | **GRE** | **UPSC** | **MPSC** | **Any other reputed examination for Higher studies (TOFEL, etc.)** |
|  |  |  |  | 01 qualified in CAT 2019 |

**ME AWARDED**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr No** | **Name of Supervisor** | **Title of Thesis** | **Name of Candidate** |
| 1 | Dr B D Bachchhav | Tribological Characterization of Brake pad Materials | Mr K N Hendre |
| 2 | Dr P S Gajjal | Tribological Performance Evaluation of Gear Material for Planetary Gear Transmission of CNC Bending Machine | Mr N H Dhanvij |
| 3 | S.R.Patil | Experimental and Numerical Analysis of Asymmetric Spur Gear | Mr A S Banate |
| 4 | S.R.Patil | Design and Analysis of Infinitely Variable Transmission Test Rig | Mr A D Gawande |

**PhD GUIDE DETAILS (AISSMSCOE Research centre)**

|  |  |  |
| --- | --- | --- |
| **S N** | **Name of Faculty who are PhD Supervisor** | **Number of Scholars Registered** |
| 01 | Dr. V. N. Raibhole  MES College of Engineering, Pune | **01** |
| 02 | Dr. Abhay A. Pawar  Principal, DyPatil COE Ambi Pune | **-** |
| 03 | Dr. B. D. Bachchhav  AISSMSCOE, Pune | **02** |
| 04 | Dr. M. S. Deshmukh  AISSMSCOE, Pune | **01** |

**PhD AWARDED**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr No** | **Name of Supervisor** | **Title of Thesis** | **Name of Candidate** |
|  |  |  |  |

**INDUSTRIAL VISITS ORGANISED**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Faculty Coordinator** | **Class and (Number of students attended)** | **Industry Name and Address** | **Date of visit** |
| **1** | P V Deshmukh | BE (Mech- B) 67 Students | IMTMA, Pimpri-Chinchwad, 411019 | 3 Oct 2019 |
| **2** | N N Gotkhindikar  S R Patil | SE (Mech S/W) 62 Students | SPECIALITY SINTERED PRODUCTS PVT. LTD. Chakan, Pune 410501 | 11th Oct 2019 |
| **3** | M.U.Gan  K.L.Kumbhar | TE (Mech A & B)118 | Ujani Hydroelectric Power Plant, Bhimanagar, Pune | 23rd Sept. 2019 |
| **4** | M P Bauskar | TE Mech A ( 68) | Whirlpool India ltd | 23/07/2019 |
| **5** | M P Bauskar  S R Patil | TE Mech B ( 69) | Fiat India Ltd | 24/07/2019 |
| **6** | A V Waghmare  A R Takalkar  S S Vadgeri | BE Mech A & B (118) | Stauff India Pvt Ltd | 10/10/2019 |
| **7** | P.S.Aglawe  Dr. C.S.Dharankar | BE Mechanical (A)  (68) | INDIAN MACHINE TOOL MANUFACTURERS’ ASSOCIATION | 04/10/2019 |
| **8** | Dr C S Choudhari | TE Mechanical B | Thermax Ltd Pune | 26/09/2019 |

**EXPERT LECTURES DELIVERED BY INDUSTRY EXPERTS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Faculty Coordinator** | **Class**  **(Number of students attended)** | **Name, Industry, designation and contact details of Expert** | **Topic** | **Date** |
| 1 | Dr B D Bachchhav | 61 | Mr. Avinash Khare, IMTMA, Chinchwad | Additive Mfg. | 8/8/2019 |
| 2 | P V Deshmukh | 67 | Gautam Doshi, Advisor, Indian Machine Tool Manufacturers' Association (IMTMA) | Role and Effect on Industries of Robotics and Automation in coming years | 3/10/2019 |
| 3 | D S Mane | SE Mech A & B (82) | Mr. Sagar Naikade, Valmont India, Quality Engineer, | Welding Technology | 08/07/2019 |
| 4 | M P Bauskar | TE Mech B | Mr S A Mandhare | MSA system | 26/07/2019 |
| 5 | M R Dahake | TE Mech B | Mr S S Tikar | ARAI Pune | 05/10/2019 |
| 6 | Dr. C S Dharankar & S S Vadgeri | BE Mech A & B (120) | Mr. Nitin Badhe, Sr. Technical Specialist- Global NVH, ALTAIR INDIA Pvt Ltd, Pune | Fundamentals of Dynamic Analysis | 15/10/2019 |
| 7 | K.L.Kumbhar | TE Mech (A & B) | Mr. Ajit Deshpande (Advanced Analytics, FinTech) | How to Enter in Artificial Intelligence | 01/10/2019 |
| 8 | Dr C S Choudhari | TE Mechanical SW | Dr Vivek Vitankar | Applications of CFD in Heat transfer Analysis | 24/09/2019 |
| 8 | Dr C S Choudhari | TE Mechanical SW | Mr Quayam Akhatar | Robotics Process Automation | 25/09/2019 |
| 9 | Dr C S Choudhari | TE Mechanical SW | Dr Prasad Khandagale, R & D Head, Henkel, Pune  9822683341 | Energy and Environment | 04/10/2019 |

**INDUSTRY –SPONSORED PROJECTS (UG/PG)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Name of Project guide** | **Year** | **Title of Industry Sponsored Project** | **Name of Sponsoring Industry** |
| **1** | P V Deshmukh | 2019 - 20 | Design and Development of Overhead Crane with Rotating Jib Arm | G A Enterprises |
| **2** | D S Mane | 2019-20 | Design, Analysis and Development of Connecting Rod For V12 IC Engine | MechaTol Engineering Solutions |
| **3** | S S Vadgeri | 2019-20 | Design and Development of Biogas Engine for Power Generation | Kirloskar Oil Engines Ltd, Pune |
| **4** | Dr C S Choudhari | 2019 - 20 | Design and development of solar powered sterling engine for electricity generation | Engineering Cluster Pune |

**MOU SIGNED WITH INDUSTRY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Faculty Coordinator** | **Name of Industry** | **Date**  **of MoU Signed** | **Valid upto**  **(00/00/0000)** |
| 1 | Dr S.J.Navale | Avishkar Engineers Pvt.Ltd | 31/12/2019 | 31/12/2020 |
| 2 | D S Mane | Suntech Landriani Machine Tools Pvt Ltd | 08/08/2018 | 07/08/2021 |
| 3 | D S Mane | Nemade Engineers Pvt Ltd | 08/08/2018 | 07/08/2021 |
| 4 | P.S.Aglawe | eAdicct Mobility Solution Pvt Ltd | 21/08/2017 | 21/08/2022 |
| 5 | M P Bauskar | Mettchnik Pvt Ltd | 10/10/2019 | 10/10/2024 |

**FACULTY MEMBERS UNDERGONE INDUSTRIAL TRAINING**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Name of Faculty** | **Name of Industry** | **Dates and Duration** |
|  |  |  |  |

**STUDENTS UNDERGONE IN-PLANT TRAINING AND (OR) INTERNSHIP PROGRAMME**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sr. No.** | **Name of the Student** | **Name of the Industry** | **Class** | **Training duration** | | |
|  |  |  |  | **Start date** | **Last date** | **Duration (days)** |
| 01 | Isabel Edison | Thermax Pvt Ltd |  | **6/13/2019** | **6/28/2019** | **15 days** |
| 02 | Kunal Gaikwad | Ameya Industries |  | **6/13/2019** | **6/28/2019** | **15 days** |
| 03 | Pushkaraj Deshmukh | Marvelour Metals Pvt Ltd |  | **6/15/2019** | **6/30/2019** | **15 days** |
| 04 | Vijayalaxmi Kodoli | Hero Pvt Ltd |  | **6/01/20119** | **6/30/2019** | **30 days** |
| 05 | Kedar Ashtikar | Milman Thinfilm systems |  | **6/02/20119** | **7/02/2019** | **30 days** |
| 06 | Aditya Chougule | Milman Thinfilm systems |  | **6/02/20119** | **7/02/2019** | **30 days** |
| 07 | Yadnya Khadake | Cummins India Ltd |  | **6/03/20119** | **7/03/2019** | **30 days** |
| 08 | Hrushikesh Banger | Hrushi Insustries |  | **6/05/20119** | **6/30/2019** | **25 days** |
| 09 | Pratik Dond | Bosch Ltd Nashik |  | **6/01/20119** | **6/28/2019** | **28 days** |
| 10 | Suraj Gadgade | DCE Refrigeration |  | **6/16/20119** | **7/01/2019** | **15 days** |
| 11 | Abhishek Dyade | Enggineering Cluster Pvt Ltd |  | **6/07/20119** | **7/06/2019** | **30 days** |
| 12 | Tejas Borkar | Enggineering Cluster Pvt Ltd |  | **6/05/20119** | **7/04/2019** | **30 days** |
| 13 | Abhishek Pisal | Ratna Gears Pvt Ltd |  | **6/01/2019** | **6/30/2019** | **30 days** |
| 14 | Rohan Soni | S. M. Engineers and Distributors |  | **11/01/2019** | **11/15/2019** | **15 days** |
| 15 | Himanshu Jaiswal | Engineering Cluster |  | **6/05/2019** | **7/04/2019** | **30 days** |
| 16 | Shrungal Kulkarni | CASIO |  | **8/01/2019** | **9/30/2019** | **60 days** |
| 17 | Aditya Ghode | Sundaram Fasteners |  | **6/10/2019** | **6/21/2019** | **10 days** |

**WORKSHOPS/SEMINARS/CONFERENCES/COURSES CONDUCTED WITH INDUSTRY SUPPORT/COLLABORATION (FOR STUDENTS)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.**  **No.** | **Faculty Coordinators** | **Title of the Programme** | **Name of Industry** | **Type of Support/ Name & Designation of Expert** |
|  |  |  |  |  |

**TRAINING TO INDUSTRY PERSONNEL/ ACTIVITY SUPPORTING TO INDUSTRY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Faculty coordinator** | **Technical Area in which Training Provided / Type of Support** | **Industry Name** |
| 1 | Dr S V Chaitanya | Visit of students of National Safety Organization NSO to workshop and laboratories for safety measures during conduction of practicals. date of the visit 16 August 2019 | National Safety Organization, |

**TESTING AND CONSULTANCY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Faculty Coordinator** | **Type of Testing & Consultancy Conducted** | **Total Revenue Generated (Rs.)** |
|  |  |  |  |

**ANY OTHER ACTIVITIES TO PROMOTE INTERACTION WITH INDUSTRY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Faculty coordinator** | **Name of Activity** | **Remark** |
|  |  |  |  |

**SUPPORT FROM ALUMNI**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr No** | **Name of Alumni** | **Position and Organisation** | **Batch**  **(e.g. 2014 – 2018)** | **Details of Support** | **Date** |
|  |  |  |  |  |  |

**STUDENTS’ ACHIEVEMENT (Individual Level)**

|  |  |  |
| --- | --- | --- |
| **S N** | **Name of Student** | **Details of Achievement (State/University/ National/International Level)** |
| **1** | Parth Bhosale | Successfully completed training class and demonstrated through examination on 22 September 2019. LEAN SIGMA GREENBELT) |
| **2** | A) Shriram Kalhapure (Rs 25000)  B) Kamlesh Sarode (Rs 18000)  C) Shubham Anbhule (Rs 8000) | Awarded:17 December 2019.  IndiTech Valves Pvt.Ltd  Excellence in Project During his Internship |
| **3** | Akshay Warghade | Participated :17 December 2019.  Participated in Cluster Level i-2-e Competition  organized by the CENTRE FOR INNOVATION ,INCUBATION & ENTERPRISE (SPPU) |
| **4** | Kishor Hendre | 3rd prize winner of ASM India 2019- Masters Award on 19t October 2019 |
| **5** | Himanshu Jaiswal | Publication of research paper in Eduindex Journals (ISSN 0474-9030) |

**STUDENTS’ ACHIEVEMENT (Team Level)**

|  |  |  |  |
| --- | --- | --- | --- |
| **S N** | **Name of Event** | **Name of Faculty Advisor** | **Details of Achievement (State/University/ National/International Level)** |
| 01 | Effi-cycle | Dr. C. S. Choudhari | National |
| 02 | Krushak | Prof. M. R Dahake | National |
| 03 | Garudashwa | Dr. D Y Dhande | National |
|  |  |  |  |

**SPORTS / CULTURAL ACHIEVEMENTS OF STUDENTS (Individual Level) (Team level achievements to be mentioned in institute level sports/Cultural committee report)**

|  |  |  |
| --- | --- | --- |
| **S N** | **Name of Student** | **Details of Achievement (State/University/ National/International Level)** |
| 1 | Aniket Pawar | Secured Gold medal in State Level Mallakhamb organized by MAHARASTRA AMETURE MALLAKHAMB ASSOCIATION Held at Pune, from -9TH November 2019 to 10th November 2019. |
| 2 | Rutuja Badade | Silver medal 62nd National Pistol Shooting |
| 3 | Abhishek Amin | Football :  1Runner up Inter Colligate University organized by SPPU  2. MIT Summit organized by MIT-WPU  3. ZEST organized by COEP  4. IMED Basketball Tournament organized by IMED College |
| 4 | Sahil Vyas |
| 5 | Prajwal More |
| 6 | Nihal Mujawar |
| 7 | Tanishq Badegar |
| 8 | Vivek Singh |  |
| 9 | Mahesh Wagaskar | Cricket:  1.MIT Summit organized by MIT-WPU  2. Inter Colligate organized by SPPU  3. Engineers Cup Cricket League organized by AISSMS IOIT  4. ZEST organized by COEP  5. Engineers Cup organized by Sandeep Foundation, Nashik  6. Chhatrapati Shivaji Trophy organized by AISSMS COE |
| 10 | Tejas Athare |
| 11 | Nihal Mujawar |
| 12 | Akash Kakade |
| 13 | Mahesh Mahajan |  |

**SOCIAL ACTIVITIES ORGANISED (NSS, Women empowerment etc.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S N** | **Faculty coordinator** | **Name of Activity** | **Date, Duration** | **Number of students involved** |
| **1** | **HOD** | Donation to flood victims total Rs/-13950 and 156 Kg of cereals and groceries for rehabilitation of flood affected people. | 1st week of | 30 |
|  |  |  |  |  |

**PARENT MEETING**

|  |  |  |  |
| --- | --- | --- | --- |
| **S N** | **Faculty Coordinator** | **Day and Date** | **Details of Parent meetings organised** |
|  |  |  |  |

**ALUMNI MEET**

|  |  |  |  |
| --- | --- | --- | --- |
| **S N** | **Faculty Coordinator** | **Day and Date** | **Details of Alumni meetings organised** |
|  |  |  |  |

**DETAILS OF STUDENT COUNSELING AND CAREER GUIDANCE AT THE DEPARTMENT LEVEL**

|  |  |
| --- | --- |
| **Number of students referred for counseling** | 4(Mechanical) + 1 (Mechanical SW)=5 |
| **Number of Faculty referred for counseling** | Nil |

|  |  |  |
| --- | --- | --- |
| **S N** | **Faculty coordinator** | **CAREER GUIDANCE ACTIVITY DETAILS** |
| 1 | K.L.Kumbhar | Career Guidance at C.T. Bora Jr. College, Shirur (No. of Students- 52) |
| 2 | K.L.Kumbhar | Career Guidance at (No. of Students- 142) |
| 3 | D S Mane | Career Guidance at Kisan Veer Mahavidyalaya, Wai (No of students 50) |
| 4 | Dr. M S Deshmukh | Career Guidance at Kisan Veer Mahavidyalaya, Wai (No of students 50) |
| 5 | A R Takalkar | Career Guidance at Maharashtra Jr College, Kolhapur (No of students 60) |
| 6 | Dr B D Bachchhav | Rashtriya Vidyalaya and Junior College Chalisgaon (510 Students data submitted) |
| 5 | S S Vadgeri | Career Guidance at Maharashtra Main Rajaram College Kolhapur and Jr College, Kolhapur (No of students 80) |
| 8 | N N Gotkhindikar | Career Guidance at Bhojane Coaching Institute, Kolhapur (No of students 116) |
| 9 | K S Kolambe | Career Guidance at Khadse Academy, Bhusawal  & Ambai Classes, Bhusawal. (No of students 100+) |

**MAJOR GRIEVANCES OF STUDENTS (IF ANY) REDRESSED (\*) (Not to be included in annual report)**

**MISCELLANEOUS (SYLLABUS IMPLEMENTATION, MAJOR ADDITION IN INFRASTRUCTURE AND FACILITY, INNOVATIONS INTRODUCED, DEVELOPMENT OF E – CONTENT ETC.)**

|  |  |  |
| --- | --- | --- |
| **S N** | **FACULTY** | **ACTIVITY** |
| **1** | HOD | LCD repair and maintenance f all classrooms were done. |
| **2** | B D Bachchhav | Purchased 3D Printing machine and Torsion testing machine to existing laboratory facility. |

**FEEDBACK FROM STAKEHOLDERS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr No** | **Stakeholder** | **Number of Feedbacks Received** | **Overall Feedback** |
| 1 | Alumni |  |  |
| 2 | Parents |  |  |
| 3 | Employers |  |  |
| 4 | Students | 540 |  |

**ANY OTHER NOTEWORTHY ACHIEVEMENT OF THE DEPARTMENT (Not mentioned above)**

|  |  |
| --- | --- |
| Sr. No. | **Details** |
| **1** | AISSMSCOE, mechanical engineering department as a research centre, As per letter No PGS/4514 dated-14/12/2019 received from S P Pune university |

**Student Chapter IE**

**Faculty M U GAN**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SN | Event name and details of event | Details of faculty | students involvement, | Name of chief guest, judges etc. | Duration and Dates |
| 1 | One Minute Talk (BE- B) | S S Vadgeri | 39 | M P Shah And P V Deshmukh | 11-09-2019 |
| 2 | One Minute Talk--TE- A | A T Thombare | 8 | G P Lohar And A T Thombare | 11-09-2019 |
| 3 | One Minute Talk --TE B | S R Patil | 18 | M U Gan, S S Patil | 11-09-2019 |
| 4 | One Minute Talk --SE A | M S Swami | 31 | Dr.P S Gajjal | 12-09-2019 |
| 5 | One Minute Talk --SE B | Dr.Ms Deshmukh | 48 | M U Gan, Dr.Ms Deshmukh | 11-09-2019 |
| 6 | One Minute Talk --TE M/Sw | V S Wagare | 32 | Dr. C S Choudhari And Dr. D.Y. Dhande | 09-09-2019 |
| 7 | One Minute Talk --Pahse Ii | M U Gan | 24 | Dr. M R Phate And P V Deshmukh | 16-09-2019 |
| 8 | One Minute Talk-SE M/S | N N Gotkhindikar | 39 | G P Lohar, P V Deshmukh | 09.09.2019 |

**TWO BEST PRACTICES FOLLOWED IN THE DEPARTMENT**

|  |
| --- |
| **Faculty Knowledge Sharing Program (FKSP)** every wednesday 03.15 to 04:15 pm |

|  |
| --- |
| **Project Exhibition**  held every year in the month of March |

**SWOC ANALYSIS**

Detail five major strengths, weaknesses, opportunities, and challenges (SWOC) of the department and future plans of the Departments

|  |  |  |
| --- | --- | --- |
| **Strengths** | 1 | **Healthy environment in the department** |
|  | 2 | **Students involvement in Co-curricular and Extracurricular activities** |

|  |  |  |
| --- | --- | --- |
| **Weaknesses** | 1 | **Industry training programs to staff and students** |
|  | 2 | **More activities related to professional body need to be conducted.** |

|  |  |  |
| --- | --- | --- |
| **Opportunities** | 1 | **Joining hands with industry for Research and Projects** |
|  | 2 | **Funds generation through conduction of training programs** |
|  | 3 | **Jointly organizing programs with nearby institutions** |

|  |  |  |
| --- | --- | --- |
| **Challenges** | 1 | **Develop Industry supported/Sponsored lab.** |

**FUTURE PLANS OF THE DEPARTMENT (For Next Academic Year)**

|  |  |
| --- | --- |
| **1** | **Applying for NBA** |

**INITIATIVES TAKEN BY THE DEPARTMENT AT DEPARTMENT AND INSTITUTE LEVEL TO IMPROVE AND ASSURE QUALITY IN THE AREA OF**

|  |  |
| --- | --- |
| **Area** | **Initiatives** |
| **Academics** | Faculty knowledge sharing program |
| **Co curricular** | Motivate student to participate in Paper presentations at various National and International conferences |
| **Extra curricular** | Motivated students to work for extra-curricular activity. |
| **Social** | Donation to flood victims total Rs/-13950 and 156 Kg of cereals and groceries for rehabilitation of flood affected people. |
| **Infrastructure and facility** | 1. LCD repair and maintenance f all classrooms were done.  2. Purchased 3D Printing machine and Torsion testing machine to existing laboratory facility. |
| **Faculty Development** | Organised AICTE sponsored one week Faculty Development Program on “Advances in Tribology” |
| **Student welfare** | Students are working under Earn and learn scheme |

**SUMMARY SHEET**

|  |  |  |
| --- | --- | --- |
| **Sr No** | **Activity/ Item** | **Numbers** |
| 01 | Students in the department (Enrolled in AY 2019-20) | 159 |
| 02 | FDP/STTP/Seminars/Conferences/Workshops/ Symposiums organized by the department | 02 |
| 03 | FDP/STTP/Seminars/Conferences/Workshops/ Symposiums attended by the department faculty | 62 |
| 04 | Extension lectures (lectures delivered by visiting guests) | 03 |
| 05 | Faculty served as resource person, expert or chairperson | 02 |
| 06 | Extension activities conducted by the department | 03 |
| 07 | MOU signed with academic and professional organizations | 05 |
| 08 | Students’ chapter /clubs | 05 |
| 09 | Student events organized | 08 |
| 10 | Papers published in proceedings of conferences | 01 |
| 11 | Papers published in refereed journals | 10 |
| 12 | Book/ Article publications | 00 |
| 13 | Patents and other IPR | 01 |
| 14 | Students placed | 14 |
| 15 | Students qualified in the examination | NA |
| 16 | ME Awarded | 04 |
| 17 | PhD guides | -- |
| 18 | PhD awarded | 01 |
| 19 | Industrial visits conducted | 08 |
| 20 | Expert lectures delivered by industry experts | 09 |
| 21 | Industry –sponsored projects (UG/PG) | 04 |
| 22 | MOU signed with industry | 05 |
| 23 | Faculty members undergone industrial training | 00 |
| 24 | Students undergone in-plant training and (or) internship programme | 12 |
| 25 | Workshops/seminars/conferences/courses conducted with industry support/collaboration (for students) | 03 |
| 26 | Training to industry personnel/ activity supporting to industry | 01 |
| 27 | Testing and consultancy for industry | 00 |
| 28 | Any other activities to promote interaction with industry | 00 |
| 29 | Support from alumni | 00 |
| 30 | Sports / cultural achievements of students (Individual level) | 03 |
| 31 | Social activities organized | -- |
| 32 | Parent meetings organized | -- |
| 33 | Alumni meet organized | 00 |
| 34 | Number of student counseling and career guidance sessions organised | 09 |

**GLIMPSES**

|  |  |
| --- | --- |
| **ACHIEVEMENTS OF FACULTY (AWARDS, RECOGNITION, PHD COMPLETION ETC.)** | |
| Photo Size 5” x 7” |  |
| **FDP/STTP/SEMINARS/CONFERENCES/WORKSHOPS/ SYMPOSIUMS ORGANIZED BY THE DEPARTMENT** | |
|  |  |
| **EXTENSION LECTURES (LECTURES DELIVERED BY VISITING GUESTS)** | |
|  |  |
| **MOU SIGNED** | |
|  |  |
| **EVENTS ORGANISED** | |
|  |  |
|  | |
| **One week AICTE sponsored STTP on “Advances in Tribology”**  **conducted on November 4-9, 2019** | |
| **INDUSTRIAL VISITS** | |
|  |  |
|  | |
| **EXPERT LECTURES DELIVERED BY INDUSTRY EXPERTS** | |
|  |  |
| **SPORTS / CULTURAL ACHIEVEMENTS** | |
|  |  |
| **SOCIAL ACTIVITIES** | |
|  |  |
| **AISSMS ENGINEERING TODAY** | |
|  |  |
|  |  |
|  |  |

**Head of Department**

**Dr B D Bachchhav**