

## Minutes of Meeting

Meeting Number: - 07

Date of Meeting: - 01.01.2020

### Institute Examination Committee [IEC]

The seventh meeting of the Institute Examination Committee [IEC] of Annasaheb Dange College of Engineering and Technology, Ashta was held on 01<sup>st</sup> January 2020 at 12.00 afternoons in the Board Room at Annasaheb Dange College of Engineering and Technology, Ashta.

As Mr. G. R. Palase I/C Director, Board of Examinations and Evaluation, Shivaji University, Kolhapur was absent due to his personal work.

Dr. S. V. Taralkar, I/C Director ADCET, Ashta and Chairman, IEC mentioned as quorum is in place we will proceed with agenda items.

#### Item No.7.1: -

##### Welcome

Member secretary Prof. V. B. Patil greeted all the members for the seventh meeting of the Institute Examination Committee [IEC].

#### Item No.7.2: -

**To confirm the minutes of the sixth meeting of the institute examination committee held on 25.05.2019.**

To confirm the minutes of the sixth meeting of the institute examination committee held on 25/05/2019.

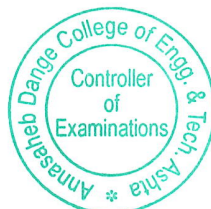
#### Item No.7.3: -

**To note the action taken on the minutes of the Sixth meeting of the institute examination committee held on 25.05.2019**

Prof. V. B. Patil presented the action taken report on the minutes of the seventh meeting of IEC held on 01/01/2020.

| Sr. | Suggestion   | Action Taken  |
|-----|--|---|
| 01  | To improve the use of modern tools in the examination process with the conduction of examination in online mode especially for circuit branches and specific courses | We are already using the online examination mode for conducting ISE in various courses.<br>It will be implemented in the next academic year for MSE/ ESE with the latest version of the curriculum. |

The house unanimously approved the action taken report.



**Item No.7.4: - Overview of examination processes**

Member Secretary Prof. V. B. Patil presented overviews of general examination processes, which is presented in the section,

Innovative Practices at examinations:-

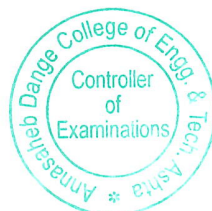
- ❖ Double-blind assessment methodology (Every answer book assessed twice, once by the internal examiner and then by the external examiner)
- ❖ Blended coding and masking are used to hide students' identities at assessment. (With changed pattern for every course)
- ❖ The contribution of external examiner in the paper setting is nearly 60 % which includes paper settings from IITs, NITs, CoE Pune, Autonomous Institute, Affiliated Institute from SUK, and other universities from Maharashtra and other states.
- ❖ Result declaration possible on 3<sup>rd</sup> day after the end of examinations.
- ❖ Blended matrix seating arrangement in even and odd format (Every block contains two categories of students appearing for different courses)
- ❖ Outcome-based question papers (Question papers includes Course Outcome [CO] and Bloom's Taxonomy (BL) for every sub-question for reference)
- ❖ Every sub-questions are accompanied with the short Marking Scheme [MS], guiding the student's expected to answer with its mark distribution.
- ❖ Long marking scheme and model answer is displayed for a student at end of examination for every course, which was highly appreciated by students.

Which all members highly appreciated. House unanimously confirmed the agenda item and acknowledged the efforts of faculty members and the examination cell.

**Item No.7.5: - Result Analysis**

F. Y. B. Tech. (Mechanical Engineering)

| Course Name                           | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|---------------------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Engineering Chemistry                 | 1MEBS101    | 113               | 113                    | 66                     | 47                     | 58.41              |
| Engineering Mathematics - I           | 1MEBS102    | 113               | 113                    | 84                     | 29                     | 74.34              |
| Engineering Graphics                  | 1MEES103    | 113               | 113                    | 71                     | 42                     | 62.83              |
| Basic Civil Engineering and Mechanics | 1MEES104    | 113               | 111                    | 60                     | 51                     | 54.05              |
| Computer Programming                  | 1MEES105    | 113               | 112                    | 81                     | 31                     | 72.32              |





F. Y. B. Tech. (Computer Science and Engineering)

| Course Name                     | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|---------------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Applied Mathematics - I         | 1CSBS101    | 115               | 111                    | 102                    | 09                     | 91.89              |
| Engineering Physics & Chemistry | 1CSBS102    | 115               | 111                    | 106                    | 05                     | 95.50              |
| Basic Electrical Engineering    | 1CSES103    | 115               | 111                    | 100                    | 11                     | 90.09              |
| Engineering Mechanics           | 1CSES104    | 115               | 111                    | 103                    | 08                     | 92.79              |
| Engineering Graphics            | 1CSES105    | 115               | 111                    | 104                    | 07                     | 93.69              |

F. Y. B. Tech. (Electrical Engineering)

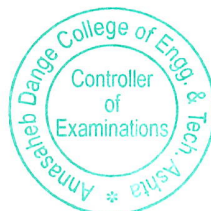
| Course Name   | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|---|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Applied Mathematics - I                               | 1EEBS101    | 107               | 106                    | 85                     | 21                     | 80.19              |
| Applied Chemistry                                     | 1EEBS102    | 107               | 106                    | 90                     | 16                     | 84.91              |
| Fundamentals of Electrical Engineering                | 1EEES103    | 107               | 106                    | 96                     | 10                     | 90.57              |
| Fundamentals of Mechanical Engineering                | 1EEES104    | 107               | 106                    | 91                     | 15                     | 85.85              |
| Fundamentals of Civil Engineering & Applied Mechanics | 1EEES105    | 107               | 106                    | 90                     | 16                     | 84.91              |

F. Y. B. Tech. (Civil Engineering)

| Course Name                       | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|-----------------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Applied Physics                   | 1CVBS101    | 62                | 59                     | 50                     | 09                     | 84.75              |
| Applied Mathematics - I           | 1CVBS102    | 62                | 59                     | 52                     | 07                     | 88.14              |
| Fundamentals of Civil Engineering | 1CVES103    | 62                | 58                     | 56                     | 02                     | 96.55              |
| Engineering Graphics              | 1CVES104    | 62                | 60                     | 58                     | 02                     | 96.67              |

F. Y. B. Tech. (Automobile Engineering)

| Course Name                                | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|--|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Applied Physics                            | 1AUBS101    | 8                 | 8                      | 8                      | 00                     | 100.00             |
| Applied Mathematics - I                    | 1AUBS102    | 8                 | 8                      | 6                      | 02                     | 75.00              |
| Elements of Automotive Engineering         | 1AUES103    | 8                 | 8                      | 8                      | 00                     | 100.00             |
| Basic Electrical & Electronics Engineering | 1AUES104    | 8                 | 8                      | 8                      | 00                     | 100.00             |



F. Y. B. Tech. (Aeronautical Engineering)

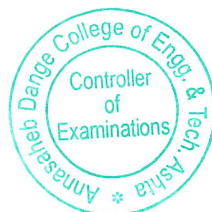
| Course Name   | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|---|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Applied Mathematics - I                                   | 1AEBS101    | 57                | 55                     | 50                     | 05                     | 90.91              |
| Applied Physics   | 1AEBS102    | 57                | 55                     | 54                     | 01                     | 98.18              |
| Engineering Mechanics: Statics                            | 1AEES103    | 57                | 54                     | 44                     | 10                     | 81.48              |
| Basic Electrical, Electronics & Communication Engineering | 1AEES104    | 57                | 54                     | 53                     | 01                     | 98.15              |
| Computer Programming in C                                 | 1AEES105    | 57                | 54                     | 47                     | 07                     | 87.04              |

. Y. B. Tech. (Food Technology)

| Course Name                      | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|----------------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Organic Chemistry - I            | 0FDBS101    | 35                | 34                     | 21                     | 13                     | 61.76              |
| Inorganic Chemistry              | 0FDBS102    | 35                | 34                     | 31                     | 03                     | 91.18              |
| Applied Mathematics - I          | 0FDBS103    | 35                | 34                     | 24                     | 10                     | 70.59              |
| Basic Electrical and Electronics | 0FDES104    | 35                | 34                     | 29                     | 05                     | 85.29              |
| Basic Mechanical Engineering     | 0FDES105    | 35                | 34                     | 30                     | 04                     | 88.24              |

S. Y. B. Tech. (Mechanical Engineering)

| Course Name                               | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|---|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Applied Mathematics III                   | 0MEBS201    | 279               | 273                    | 204                    | 69                     | 74.73              |
| Engineering Thermodynamics                | 0MEPC202    | 279               | 272                    | 223                    | 49                     | 81.99              |
| Fluid Mechanics                           | 0MEPC203    | 279               | 272                    | 199                    | 73                     | 73.16              |
| Manufacturing Processes and Machine Tools | 0MEPC204    | 279               | 270                    | 226                    | 44                     | 83.70              |
| Machine Drawing*                          | 0MEPC205    | 279               | 272                    | 216                    | 56                     | 79.41              |
| Computer Programming Using C++            | 0MEES206    | 279               | 274                    | 243                    | 31                     | 88.69              |





S. Y. B. Tech. (Electronics and Telecommunication Engineering)

| Course Name                             | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|---|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Applied Mathematics III                 | 0ETBS201    | 70                | 69                     | 52                     | 17                     | 75.36              |
| Analog Electronics I                    | 0ETPC202    | 70                | 68                     | 53                     | 15                     | 77.94              |
| Digital Electronics                     | 0ETPC203    | 70                | 70                     | 57                     | 13                     | 81.43              |
| Circuit Theory                          | 0ETPC204    | 70                | 70                     | 37                     | 33                     | 52.86              |
| Electronics Measurement and Instruments | 0ETPC205    | 70                | 70                     | 51                     | 19                     | 72.86              |

S. Y. B. Tech. (Computer Science and Engineering)

| Course Name                  | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|------------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Discrete Mathematics         | 0CSBS201    | 65                | 62                     | 54                     | 8                      | 87.10              |
| Data Structures              | 0CSPC202    | 65                | 63                     | 48                     | 15                     | 76.19              |
| Data Communications          | 0CSPC203    | 65                | 64                     | 53                     | 11                     | 82.81              |
| Processor Architectures      | 0CSPC204    | 65                | 63                     | 56                     | 7                      | 88.89              |
| Statistics and Fuzzy Systems | 0CSBS205    | 65                | 64                     | 54                     | 10                     | 84.38              |

S. Y. B. Tech. (Electrical Engineering)

| Course Name                      | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|----------------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Applied Mathematics III          | 0EEBS201    | 140               | 137                    | 97                     | 40                     | 70.80              |
| Electrical Circuits and Networks | 0EEPC202    | 140               | 134                    | 89                     | 45                     | 66.42              |
| Electrical Engineering Materials | 0EEPC203    | 140               | 133                    | 111                    | 22                     | 83.46              |
| Analog Electronics               | 0EEPC204    | 140               | 133                    | 116                    | 17                     | 87.22              |
| Electrical Measurements          | 0EEPC205    | 140               | 136                    | 121                    | 15                     | 88.97              |



S. Y. B. Tech. (Civil Engineering)

| Course Name                         | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|-------------------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Applied Mathematics III             | 0CVBS201    | 62                | 58                     | 23                     | 35                     | 39.66              |
| Surveying                           | 0CVPC202    | 62                | 58                     | 52                     | 6                      | 89.66              |
| Fluid Mechanics                     | 0CVPC203    | 62                | 61                     | 42                     | 19                     | 68.85              |
| Strength of Materials               | 0CVPC204    | 62                | 61                     | 50                     | 11                     | 81.97              |
| Building Construction and Materials | 0CVPC205    | 62                | 60                     | 58                     | 02                     | 96.67              |

S. Y. B. Tech. (Automobile Engineering)

| Course Name                              | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|--|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Applied Mathematics III                  | 0AUBS201    | 41                | 41                     | 22                     | 19                     | 53.66              |
| Applied Thermodynamics                   | 0AUPC202    | 41                | 41                     | 12                     | 29                     | 29.27              |
| Fluid Mechanics and Machinery            | 0AUPC203    | 41                | 41                     | 5                      | 36                     | 12.20              |
| Automobile Materials and Heat Treatments | 0AUPC204    | 41                | 41                     | 35                     | 6                      | 85.37              |
| Elements of Automotive Engineering       | 0AUPC205    | 41                | 41                     | 38                     | 3                      | 92.68              |

S. Y. B. Tech. (Aeronautical Engineering)

| Course Name                           | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|---------------------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Applied Mathematics III               | 0AEBC201    | 70                | 63                     | 37                     | 26                     | 58.73              |
| Applied Thermodynamics                | 0AEPC202    | 70                | 66                     | 45                     | 21                     | 68.18              |
| Fluid Mechanics                       | 0AEPC203    | 70                | 67                     | 38                     | 29                     | 56.72              |
| Solid Mechanics                       | 0AEPC204    | 70                | 65                     | 40                     | 25                     | 61.54              |
| Introduction to Aerospace Engineering | 0AEPC205    | 70                | 66                     | 56                     | 10                     | 84.85              |





T. Y. B. Tech. (Mechanical Engineering)

| Course Name                         | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|-------------------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Design of Machine Elements I        | 0MEPC301    | 284               | 274                    | 183                    | 91                     | 66.79              |
| Heat and Mass Transfer              | 0MEPC302    | 284               | 271                    | 192                    | 79                     | 70.85              |
| Dynamics of Machines                | 0MEPC303    | 284               | 274                    | 220                    | 54                     | 80.29              |
| Control Engineering                 | 0MEPC304    | 284               | 275                    | 220                    | 55                     | 80.00              |
| Manufacturing Engineering           | 0MEPC305    | 284               | 271                    | 234                    | 37                     | 86.35              |
| Advanced Mechanics of Solids [PE I] | 0MEPE306    | 133               | 129                    | 85                     | 44                     | 65.89              |
| Advanced Foundry Technology [PE I]  | 0MEPE307    | 75                | 73                     | 68                     | 05                     | 93.15              |
| Fluid Dynamics [PE I]               | 0MEPE308    | 76                | 71                     | 52                     | 19                     | 73.24              |
| Research Methodology-I              | 0MEPR309    | 284               | 272                    | 259                    | 13                     | 95.22              |

T. Y. B. Tech. (Electronics and Telecommunication Engineering)

| Course Name                     | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|---------------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Microcontroller and Interfacing | 0ETPC313    | 83                | 80                     | 64                     | 16                     | 80.00              |
| Antenna Theory and Design       | 0ETPC314    | 83                | 81                     | 60                     | 21                     | 74.07              |
| Digital Signal Processing       | 0ETPC315    | 83                | 81                     | 60                     | 21                     | 74.07              |
| Digital Communication           | 0ETPC316    | 83                | 81                     | 60                     | 21                     | 74.07              |
| Feedback Control Systems        | 0ETPC317    | 83                | 81                     | 54                     | 27                     | 66.67              |

T. Y. B. Tech. (Computer Science and Engineering)

| Course Name         | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|---------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Internet on Things  | 0CSPC301    | 68                | 68                     | 65                     | 03                     | 95.59              |
| Computer Algorithms | 0CSPC302    | 68                | 68                     | 62                     | 06                     | 91.18              |
| System Software     | 0CSPC303    | 68                | 68                     | 63                     | 05                     | 92.65              |



| Course Name                      | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|----------------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Information and Network Security | 0CSPC304    | 68                | 67                     | 63                     | 04                     | 94.03              |
| Database Engineering             | 0CSPC305    | 68                | 67                     | 61                     | 06                     | 91.04              |

T. Y. B. Tech. (Electrical Engineering)

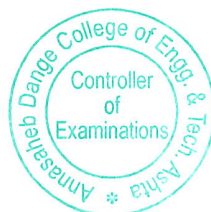
| Course Name                 | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|-----------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Feedback Control Systems    | 0EETPC301   | 154               | 153                    | 126                    | 27                     | 82.35              |
| Power System Analysis       | 0EETPC302   | 154               | 153                    | 111                    | 42                     | 72.55              |
| AC Machines                 | 0EETPC303   | 154               | 153                    | 141                    | 42                     | 92.16              |
| Power Electronics           | 0EETPC304   | 154               | 153                    | 137                    | 16                     | 89.54              |
| Electromagnetic Engineering | 0EETPC305   | 154               | 152                    | 117                    | 35                     | 76.97              |

T. Y. B. Tech. (Civil Engineering)

| Course Name                | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|----------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Design of Steel Structures | 0CVPC301    | 85                | 83                     | 67                     | 16                     | 80.72              |
| Soil Mechanics             | 0CVPC302    | 85                | 84                     | 79                     | 05                     | 94.05              |
| Water Supply Engineering   | 0CVPC303    | 85                | 83                     | 53                     | 30                     | 63.86              |
| Engineering Geology        | 0CVES304    | 85                | 84                     | 72                     | 12                     | 85.71              |
| Infrastructure Engineering | 0CVPC305    | 85                | 82                     | 80                     | 02                     | 97.56              |

T. Y. B. Tech. (Automobile Engineering)

| Course Name                | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|----------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Dynamics of Machines       | 0AUPC301    | 56                | 56                     | 36                     | 20                     | 64.29              |
| Heat Transfer              | 0AUPC302    | 56                | 56                     | 47                     | 09                     | 83.93              |
| Design of Machine Elements | 0AUPC303    | 56                | 56                     | 40                     | 16                     | 71.43              |





| Course Name              | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|--------------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Automotive Transmission  | 0AUPC304    | 56                | 56                     | 49                     | 07                     | 87.50              |
| Vehicle Body Engineering | 0AUPC305    | 56                | 56                     | 49                     | 07                     | 87.50              |

T. Y. B. Tech. (Aeronautical Engineering)

| Course Name           | Course Code | Eligible Students | Total Appeared Student | No. of Students Passed | No. of Students Failed | Passing Percentage |
|-----------------------|-------------|-------------------|------------------------|------------------------|------------------------|--------------------|
| Aircraft Structures   | 0AEPC301    | 67                | 64                     | 46                     | 18                     | 71.88              |
| Aerodynamics II       | 0AEPC302    | 67                | 65                     | 51                     | 14                     | 78.46              |
| Linear Control Theory | 0AEPC303    | 67                | 65                     | 56                     | 09                     | 86.15              |
| Aircraft Performance  | 0AEPC304    | 67                | 65                     | 38                     | 27                     | 58.46              |
| Propulsion II         | 0AEPC305    | 67                | 65                     | 61                     | 04                     | 93.85              |

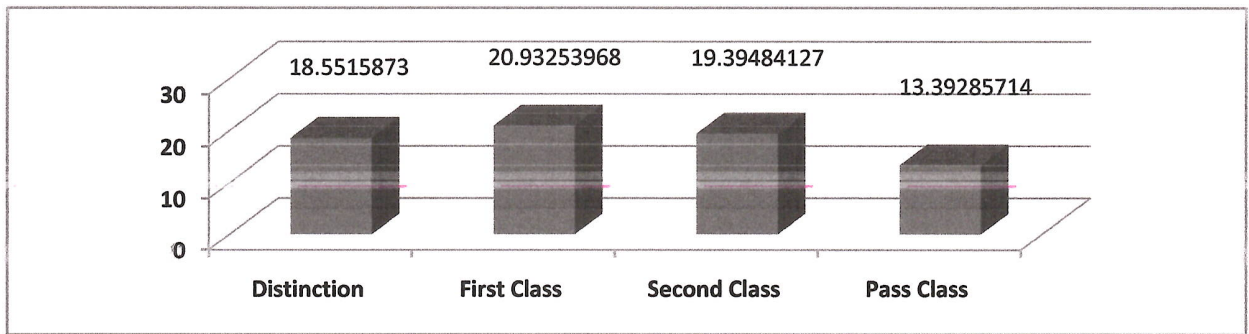
F. Y. M. Tech. (All)

| Name of Programme                       | Appeared Students | Clear Pass | ATKT | Fail | Passing Percentage |
|---|-------------------|------------|------|------|--------------------|
| F. Y. M. Tech (Electrical Power System) | 01                | 01         | 00   | 00   | 100 %              |
| F. Y. M. Tech (Civil Structural Engg.)  | 02                | 02         | 00   | 00   | 100 %              |



**Result Analysis (SPI)**

| Name of Programme              | Distinction<br>(Greater Than 7.75) | First Class<br>(In Between 7.74 to 6.75) | Second Class<br>(In Between 6.74 to 5.75) | Pass Class<br>(In Between 5.74 to 4.75) |
|--------------------------------|------------------------------------|--|---|---|
| F. Y. B. Tech (All)            | 164                                | 104                                      | 77  | 35                                      |
| S. Y. B. Tech (All)            | 90                                 | 144                                      | 146                                       | 150                                     |
| T. Y. B. Tech (All)            | 120                                | 174                                      | 168                                       | 85                                      |
| <b>Total</b>                   | <b>374</b>                         | <b>422</b>                               | <b>391</b>                                | <b>270</b>                              |
| <b>Percentage Contribution</b> | <b>18.55</b>                       | <b>20.93</b>                             | <b>19.39</b>                              | <b>13.39</b>                            |



All members participated in the discussion. Prof. Sachin Patil had given a vote of thanks, and the meeting concluded.

(Prof. V. B. Patil)

**Member Secretary, IEC, and CoE**

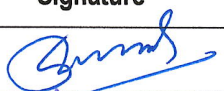


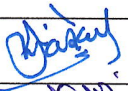


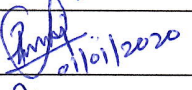

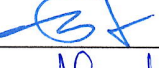
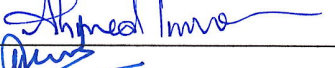




(Dr. S. V. Taralkar)

**Chairman, IEC, and I/C Director**





## Attendance Sheet: -

| Sr. | Name  | Designation  | Signature   |
|-----|---|--|---|
| 1.  | Chairman and I/C Director                           | Dr. S. V. Taralkar,  |    |
| 2.  | Executive Director                                  | Prof. R. A. Kanai  |    |
| 3.  | Shivaji University Nominee- Member                  | Mr. G. R. Palase<br>I/C Director, Board of Examination<br>and Evaluation, SU, Kolhapur |   |
| 4.  | Expert from another premium Institute<br>and Member | Dr. M. S. Chavan (KIT, Kolhapur)   |    |
| 5.  | Registrar and Member                                | Prof. S. B. Hivarekar  |    |
| 6.  | Head, Mechanical Engg. & Member                     | Dr. L. Y. Waghmode   |    |
| 7.  | Head, Civil Engg. , BS & Member                     | Prof. S. S. Mohite   |    |
| 8.  | Head, CSE Engg. & Member                            | Dr. S. H. Bhandari   |    |
| 9.  | I/C Head, ETC Engg. & Member                        | Prof. V. A. Mane   |   |
| 10. | Head, Electrical Engg. & Member                     | Dr. G. R. Kulkarni   |  |
| 11. | Head, Aeronautical Engg. & Member                   | Dr. S. A. I. Bellary   |  |
| 12. | Head, Automobile Engg. & Member                     | Dr. I. M. Jamadar  |  |
| 13. | Assistant Controller of Examination-<br>Member      | Prof. S. P. Patil  |  |
| 14. | Assistant Controller of Examination-<br>Member      | Prof. A. A. Jadhav   |  |
| 15. | Controller of Examination – Member<br>Secretary     | Prof. V. B. Patil  |  |

