

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO.96 OF. 2022

M.E. (2017 PAT.) & (2020 Course) Examination of MAR/APR 2022

(Under Faculty of SCIENCE AND TECHNOLOGY : B)ENGINEERING)

INSTRUCTIONS FOR CANDIDATES

1. Candidates are required to be present at the examination centre, THIRTY MINUTES before the time fixed for paper.
2. Candidates are forbidden from taking any material into the examination hall, that can be used for malpractice at the time of examination.
3. Candidates are requested to see the Notice Board at their place of examination regularly for changes if any, that may be notified later in the program.
4. No request for any special concession such as a change in time or any day fixed for the University Examination on any ground shall be granted.
5. Candidates are requested to note the Day, Date and Time of every Paper on every day.
6. Candidates are permitted to use stencils at the time of examination.
7. Candidates appearing for the examinations are expected to provide themselves with Side- rules.
8. The exchange or loan of side-rules, drawing instruments of other materials used in the examination hall is Not Permitted while the examinations are in process.
9. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
10. Use of non-programmable battery operated electronic Calculator of Pocket-size is allowed. The exchange of Calculators is not allowed.
11. The written examination will be conducted in the following order.

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|---|
| Monday 25-07-2022 | 510301 | Mathematical Foundations for Data Science |
| Tuesday 26-07-2022 | 510302 | Basics of Data Science |
| Wednesday 27-07-2022 | 510501 | Artificial Intelligence |
| Thursday 28-07-2022 | 510101 | Research Methodology |
| Friday 29-07-2022 | 510502 | ELECTIVE-I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|-----------------------------------|
| Friday 05-08-2022 | 510308 | Data Warehousing and Mining |
| Monday 08-08-2022 | 510309 | Machine Learning |
| Friday 12-08-2022 | 510504 | Virtual Reality Augmented Reality |
| Wednesday 17-08-2022 | 510505 | ELECTIVE-II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|----------------------------------|
| Monday 25-07-2022 | 610501 | Soft Computing and Deep Learning |
| Tuesday 26-07-2022 | 610502 | Scalable Data Science |
| Wednesday 27-07-2022 | 610303 | ELECTIVE-III |

NOTE: -

1) Additional 15 Minutes per hour to each paper.

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--------------------------------------|
| Monday 25-07-2022 | 509101 | MATHEMATICAL AND STATISTICAL METHODS |
| Tuesday 26-07-2022 | 509102 | PROCESS OPTIMIZATION |
| Wednesday 27-07-2022 | 509103 | ADVANCED SEPARATION PROCESSES |
| Thursday 28-07-2022 | 509104 | RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 509105 | ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-------------------------------|
| Friday 05-08-2022 | 509107 | ADVANCED TRANSPORT PHENOMENA |
| Monday 08-08-2022 | 509108 | ADVANCED PROCESS CONTROL |
| Friday 12-08-2022 | 509109 | ADVANCED REACTION ENGINEERING |
| Wednesday 17-08-2022 | 509110 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---------------------------------|
| Monday 25-07-2022 | 509113 | PROCESS MODELING AND SIMULATION |
| Tuesday 26-07-2022 | 509114 | ADVANCED THERMODYNAMICS |
| Wednesday 27-07-2022 | 509115 | ELECTIVE - III |

NOTE: -

- 1) Additional 15 minutes per hour to each paper.
- 2) The Backlog students of M.E. (2013 Patt.) will have to appear for equivalence subject of M.E. (2017 Patt.).

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Monday 25-07-2022 | 509131 | APPLIED STATISTICS FOR ENVIRONMENTAL ENGINEERS |
| Tuesday 26-07-2022 | 509132 | ENVIRONMENTAL MANAGEMENT |
| Wednesday 27-07-2022 | 509133 | ENVIRONMENTAL CHEMISTRY |
| Thursday 28-07-2022 | 509134 | RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 509135 | ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-------------------------------|
| Friday 05-08-2022 | 509137 | WASTEWATER TREATMENT & DESIGN |
| Monday 08-08-2022 | 509138 | SOLID WASTE MANAGEMENT |
| Friday 12-08-2022 | 509139 | INDUSTRIAL WASTE TREATMENT |
| Wednesday 17-08-2022 | 509140 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Monday 25-07-2022 | 509143 | REMOTE SENSING & GIS APPLICATIONS IN ENVIRONMENTAL ENGINEERING |
| Tuesday 26-07-2022 | 509144 | INDUSTRIAL POLLUTION PREVENTION & CLEANER PRODUCTION |
| Wednesday 27-07-2022 | 509145 | ELECTIVE - III |

NOTE: -

- 1) Additional 15 Minutes per hour each paper.
- 2) The Backlog students of M.E. (2013 Patt.) will have to appear for equivalence subject of M.E. (2017 Patt.).

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|---|
| Monday 25-07-2022 | 501021 | APPLICATIONS OF STATISTICAL METHODS IN CONSTRUCTION |
| Tuesday 26-07-2022 | 501022 | MANAGEMENT AND PROJECT PLANNING IN CONSTRUCTION |
| Wednesday 27-07-2022 | 501023 | CONSTRUCTION TECHNOLOGY |
| Thursday 28-07-2022 | 501024 | TQM IN CONSTRUCTION |
| Friday 29-07-2022 | 501025 | ELECTIVE I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--|
| Friday 05-08-2022 | 501027 | CONSTRUCTION CONTRACTS ADMINISTRATION AND MANAGEMENT |
| Monday 08-08-2022 | 501028 | PROJECT ECONOMICS AND FINANCIAL MANAGEMENT |
| Friday 12-08-2022 | 501029 | OPERATIONS RESEARCH |
| Wednesday 17-08-2022 | 501030 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|---|
| Monday 25-07-2022 | 601033 | ENVIRONMENT & ENERGY FOR SUSTAINABLE CONSTRUCTION |
| Tuesday 26-07-2022 | 601034 | RESEARCH METHODOLOGY |
| Wednesday 27-07-2022 | 601035 | OPEN ELECTIVE |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--|
| Monday 25-07-2022 | 501061 | ENVIRONMENTAL LEGISLATION AND MANAGEMENT SYSTEMS |
| Tuesday 26-07-2022 | 501062 | ENVIRONMENTAL CHEMISTRY & MICROBIOLOGY |
| Wednesday 27-07-2022 | 501063 | PHYSICO-CHEMICAL PROCESS FOR WATER AND WASTE WATER TREATMENT |
| Thursday 28-07-2022 | 501064 | ENVIRONMENTAL SANITATION |
| Friday 29-07-2022 | 501065 | ELECTIVE I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--|
| Friday 05-08-2022 | 501067 | INDUSTRIAL WASTE WATER MANAGEMENT |
| Monday 08-08-2022 | 501068 | AIR POLLUTION AND CONTROL |
| Friday 12-08-2022 | 501069 | SOLID WASTE AND HAZARDOUS WASTE MANAGEMENT |
| Wednesday 17-08-2022 | 501070 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|---------------------------------|
| Monday 25-07-2022 | 601073 | ENVIRONMENTAL IMPACT ASSESSMENT |
| Tuesday 26-07-2022 | 601074 | RESEARCH METHODOLOGY |
| Wednesday 27-07-2022 | 601075 | OPEN ELECTIVE |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|-------------------------------|
| Monday 25-07-2022 | 501121 | ADVANCE SOIL MECHANICS |
| Tuesday 26-07-2022 | 501122 | GROUND IMPROVEMENT TECHNIQUES |
| Wednesday 27-07-2022 | 501123 | ROCK MECHANICS |
| Thursday 28-07-2022 | 501125 | GEO-ENVIRONMENTAL ENGINEERING |
| Friday 29-07-2022 | 501124 | ELECTIVE-I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--------------------------------------|
| Friday 05-08-2022 | 501127 | ADVANCE FOUNDATION ENGINEERING |
| Monday 08-08-2022 | 501128 | CONSTRUCTION METHODS IN GEOTECHNICAL |
| Friday 12-08-2022 | 501129 | STABILITY OF SLOPES & EARTH DAM |
| Wednesday 17-08-2022 | 501130 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|-------------------------------------|
| Monday 25-07-2022 | 601133 | GEOTECHNICAL EARTHQUAKE ENGINEERING |
| Tuesday 26-07-2022 | 601134 | RESEARCH METHODOLOGY |
| Wednesday 27-07-2022 | 601135 | OPEN ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Monday 25-07-2022 | 501041 | FLUID MECHANICS |
| Tuesday 26-07-2022 | 501042 | IRRIGATION AND DRAINAGE |
| Wednesday 27-07-2022 | 501043 | PLANNING AND MANAGEMENT OF WATER RESOURCES |
| Thursday 28-07-2022 | 501044 | DAM ENGINEERING |
| Friday 29-07-2022 | 501045 | ELECTIVE I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Friday 05-08-2022 | 501047 | OPEN CHANNEL HYDRAULICS |
| Monday 08-08-2022 | 501048 | SEDIMENT TRANSPORT AND RIVER MECHANICS |
| Friday 12-08-2022 | 501049 | HYDROLOGY |
| Wednesday 17-08-2022 | 501050 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-------------------------|
| Monday 25-07-2022 | 601051 | OPTIMIZATION TECHNIQUES |
| Tuesday 26-07-2022 | 601052 | RESEARCH METHODOLOGY |
| Wednesday 27-07-2022 | 601053 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|---|
| Monday 25-07-2022 | 501001 | THEORY OF ELASTICITY & PLASTICITY |
| Tuesday 26-07-2022 | 501002 | STRUCTURAL DYNAMICS |
| Wednesday 27-07-2022 | 501003 | ADVANCED DESIGN OF STEEL STRUCTURES |
| Thursday 28-07-2022 | 501004 | NUMERICAL METHODS IN STRUCTURAL ENGINEERING |
| Friday 29-07-2022 | 501005 | ELECTIVE I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--|
| Friday 05-08-2022 | 501007 | FINITE ELEMENT METHOD |
| Monday 08-08-2022 | 501008 | THEORY OF PLATES AND SHELLS |
| Friday 12-08-2022 | 501009 | ADVANCED DESIGN OF CONCRETE STRUCTURES |
| Wednesday 17-08-2022 | 501010 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--|
| Monday 25-07-2022 | 601013 | RESEARCH METHODOLOGY |
| Tuesday 26-07-2022 | 601014 | ANALYSIS & DESIGN OF EARTHQUAKE RESISTANT STRUCTURES |
| Wednesday 27-07-2022 | 601015 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--|
| Monday 25-07-2022 | 501081 | PLANNING AND MANAGEMENT OF WATER RESOURCES |
| Tuesday 26-07-2022 | 501082 | ENVIRONMENTAL CHEMISTRY AND MICROBIOLOGY |
| Wednesday 27-07-2022 | 501083 | FLUID MECHANICS |
| Thursday 28-07-2022 | 501084 | ADVANCED WATER TREATMENT |
| Friday 29-07-2022 | 501085 | ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|-------------------------------|
| Friday 05-08-2022 | 501087 | HYDROLOGY |
| Monday 08-08-2022 | 501088 | OPEN CHANNEL HYDRAULICS |
| Friday 12-08-2022 | 501089 | ADVANCED WASTEWATER TREATMENT |
| Wednesday 17-08-2022 | 501090 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|-------------------------|
| Monday 25-07-2022 | 601093 | OPTIMIZATION TECHNIQUES |
| Tuesday 26-07-2022 | 601094 | RESEARCH METHODOLOGY |
| Wednesday 27-07-2022 | 601095 | OPEN ELECTIVE |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--|
| Monday 25-07-2022 | 510104 | EMBEDDED AND REAL TIME OPERATING SYSTEMS |
| Tuesday 26-07-2022 | 510102 | BIO-INSPIRED OPTIMIZATION ALGORITHMS |
| Wednesday 27-07-2022 | 510103 | SOFTWARE DEVELOPMENT AND VERSION CONTROL |
| Thursday 28-07-2022 | 510101 | RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 510105 | ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--------------------------------|
| Friday 05-08-2022 | 510108 | OPERATION RESEARCH |
| Monday 08-08-2022 | 510109 | SYSTEM SIMULATION AND MODELING |
| Friday 12-08-2022 | 510110 | MACHINE LEARNING |
| Wednesday 17-08-2022 | 510111 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|------------------------|
| Monday 25-07-2022 | 610101 | FAULT TOLERANT SYSTEMS |
| Tuesday 26-07-2022 | 610102 | INFORMATION RETRIEVAL |
| Wednesday 27-07-2022 | 610103 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Monday 25-07-2022 | 510301 | Mathematical Foundations for Data Science |
| Tuesday 26-07-2022 | 510302 | Basics of Data Science |
| Wednesday 27-07-2022 | 510303 | Big Data Analytics |
| Thursday 28-07-2022 | 510101 | Research Methodology |
| Friday 29-07-2022 | 510305 | Eletive-I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-----------------------------|
| Friday 05-08-2022 | 510308 | Data Warehousing and Mining |
| Monday 08-08-2022 | 510309 | Machine Learning |
| Friday 12-08-2022 | 510310 | Soft Computing |
| Wednesday 17-08-2022 | 5610311 | Eletive-II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---------------------------------|
| Monday 25-07-2022 | 610301 | Deep Learning |
| Tuesday 26-07-2022 | 610302 | Data Modeling and Visualization |
| Wednesday 27-07-2022 | 610303 | Elective-III |

NOTE: -

Additional 15 minutes per hour to each paper.

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---------------------------|
| Monday 25-07-2022 | 510201 | RESEARCH METHODOLOGY |
| Tuesday 26-07-2022 | 510202 | NETWORK SECUTIRY |
| Wednesday 27-07-2022 | 510203 | WIRELESS SENSOR NETWORKS |
| Thursday 28-07-2022 | 510204 | HIGH PERFORMANCE NETWORKS |
| Friday 29-07-2022 | 510205 | ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-----------------------------|
| Friday 05-08-2022 | 510208 | OPERATION RESEARCH |
| Monday 08-08-2022 | 510209 | NETWORK DESIGN AND ANALYSIS |
| Friday 12-08-2022 | 510210 | DATA ALGORITHMMS |
| Wednesday 17-08-2022 | 510211 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|------------------------|
| Monday 25-07-2022 | 610201 | FAULT TOLERANT SYSTEMS |
| Tuesday 26-07-2022 | 610202 | MOBILE AD HOC NETWORKS |
| Wednesday 27-07-2022 | 610203 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|---|
| Monday 25-07-2022 | 510401 | Mathematical Foundations for Cyber Security |
| Tuesday 26-07-2022 | 510402 | Modern Cryptography |
| Wednesday 27-07-2022 | 510403 | Secure Software Design, Coding Practices and Ethics |
| Thursday 28-07-2022 | 510101 | Research Methodology |
| Friday 29-07-2022 | 510405 | Elective-I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|---------------------------------|
| Friday 05-08-2022 | 510408 | Network Security |
| Monday 08-08-2022 | 510409 | Disater Recovery and Management |
| Friday 12-08-2022 | 510410 | Fundamentals of Block Chain |
| Wednesday 17-08-2022 | 510411 | Elective-II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|---|
| Monday 25-07-2022 | 610401 | Cloud Security |
| Tuesday 26-07-2022 | 610402 | Cyber Security and IT infrastructure Protection |
| Wednesday 27-07-2022 | 610403 | Elective -III |

NOTE: -

1) Additional 15 Minutes per hour each paper.

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Monday 25-07-2022 | 503101 | OPTIMIZATION TECHNIQUES IN CONTROL SYSTEM |
| Tuesday 26-07-2022 | 503102 | AUTOMATION IN MANUFACTURING |
| Wednesday 27-07-2022 | 503103 | NON LINEAR CONTROL SYSTEM |
| Thursday 28-07-2022 | 503104 | RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 503105 | ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Friday 05-08-2022 | 503107 | MULTIVARIABLE AND OPTIMAL CONTROL SYSTEM |
| Monday 08-08-2022 | 503108 | CONTROL OF POWER ELECTRONICS CIRCUITS |
| Friday 12-08-2022 | 503109 | DIGITAL SIGNAL PROCESSING AND ITS APPLICATIONS |
| Wednesday 17-08-2022 | 503110 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Monday 25-07-2022 | 603101 | ADVANCED DRIVES AND CONTROL |
| Tuesday 26-07-2022 | 603102 | SYSTEM IDENTIFICATION & ADAPTIVE CONTROL |
| Wednesday 27-07-2022 | 603103 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Monday 25-07-2022 | 503301 | LINEAR SYSTEMS THEORY AND DESIGN |
| Tuesday 26-07-2022 | 503302 | MODELLING AND ANALYSIS OF ELECTRICAL MACHINES |
| Wednesday 27-07-2022 | 503303 | POWER CONVERTERS I |
| Thursday 28-07-2022 | 503304 | RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 503305 | ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--------------------------|
| Friday 05-08-2022 | 503307 | AC AND DC DRIVES |
| Monday 08-08-2022 | 503308 | POWER CONVERTERS II |
| Friday 12-08-2022 | 503309 | ADVANCED CONTROL SYSTEMS |
| Wednesday 17-08-2022 | 503310 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Monday 25-07-2022 | 603301 | SPECIAL APPLICATIONS OF POWER ELECTRONICS |
| Tuesday 26-07-2022 | 603302 | ENERGY MANAGEMENT AND POWER QUALITY |
| Wednesday 27-07-2022 | 603303 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--|
| Monday 25-07-2022 | 503201 | COMPUTER APPLICATIONS IN POWER SYSTEMS |
| Tuesday 26-07-2022 | 503202 | POWER SECTOR ECONOMICS AND MANAGEMENT |
| Wednesday 27-07-2022 | 503203 | POWER SYSTEM MODELING |
| Thursday 28-07-2022 | 503204 | RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 503205 | ELECTIVE I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|-------------------------------------|
| Friday 05-08-2022 | 503207 | POWER SYSTEM DYNAMICS |
| Monday 08-08-2022 | 503208 | POWER SYSTEM PLANNING & RELIABILITY |
| Friday 12-08-2022 | 503209 | HVDC AND FLEXIBLE AC TRANSMISSION |
| Wednesday 17-08-2022 | 503210 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|---------------------------------------|
| Monday 25-07-2022 | 603201 | ADVANCED POWER SYSTEM PROTECTION |
| Tuesday 26-07-2022 | 603202 | POWER QUALITY ASSESSMENT & MITIGATION |
| Wednesday 27-07-2022 | 603203 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

**M.E. ELECTRONICS &
TELECOMMUNICATION (COMMUNICATION
NETWORK) (2017 PAT.)/F-2022**

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Monday 25-07-2022 | 504501 | MODELLING AND SIMULATION OF COMMUNICATION NETWORKS |
| Tuesday 26-07-2022 | 504502 | HIGH SPEED COMMUNICATION NETWORKS |
| Wednesday 27-07-2022 | 504503 | NETWORK SECURITY |
| Thursday 28-07-2022 | 504504 | * RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 504505 | ELECTIVE I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---------------------------------|
| Friday 05-08-2022 | 504507 | TRAFFIC ANALYSIS AND QOS |
| Monday 08-08-2022 | 504508 | BROADBAND WIRELESS TECHNOLOGIES |
| Friday 12-08-2022 | 504509 | SDR AND COGNITIVE RADIO |
| Wednesday 17-08-2022 | 504510 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Monday 25-07-2022 | 604501 | 4G LTE CELLULAR SYSTEMS |
| Tuesday 26-07-2022 | 604502 | MODERN COMMUNICATION RECEIVER DESIGN & TECHNOLOGY |
| Wednesday 27-07-2022 | 604503 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E. (2013 Patt.) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---------------------------------|
| Monday 25-07-2022 | 504601 | Sensors & Measurements |
| Tuesday 26-07-2022 | 504602 | Data Communication & Networking |
| Wednesday 27-07-2022 | 504603 | Wireless Sensor Network for IoT |
| Thursday 28-07-2022 | 504604 | Research Methodology |
| Friday 29-07-2022 | 504605 | Elective – I |

SEMESTER - II

Time:-2.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--------------------------------|
| Friday 05-08-2022 | 504608 | Embedded System Design |
| Monday 08-08-2022 | 504609 | Cloud Architecture & Protocols |
| Friday 12-08-2022 | 504610 | IoT Architecture and Protocols |
| Wednesday 17-08-2022 | 504611 | Elective - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|------------------------------------|
| Monday 25-07-2022 | 604601 | Microsystem Fabrication |
| Tuesday 26-07-2022 | 604602 | IoT Applications & Web Development |
| Wednesday 27-07-2022 | 604603 | Elective - III |

NOTE: -

Additional 15 minutes per hour to each paper.

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|-------------------------------------|
| Monday 25-07-2022 | 504301 | ELECTROMAGNETICS AND ANTENNA THEORY |
| Tuesday 26-07-2022 | 504302 | RF AND MICROWAVE CIRCUITS |
| Wednesday 27-07-2022 | 504303 | MICROWAVE MEASUREMENTS |
| Thursday 28-07-2022 | 504104 | * RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 504305 | ELECTIVE I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--------------------------------|
| Friday 05-08-2022 | 504307 | COMPUTATIONAL ELECTROMAGNETICS |
| Monday 08-08-2022 | 504308 | RF AND MMIC TECHNOLOGY |
| Friday 12-08-2022 | 504309 | WIRELESS COMMUNICATION SYSTEM |
| Wednesday 17-08-2022 | 504310 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|-----------------------------------|
| Monday 25-07-2022 | 604301 | EMI AND EMC TECHNIQUES |
| Tuesday 26-07-2022 | 604302 | RADAR AND SATELLITE COMMUNICATION |
| Wednesday 27-07-2022 | 604103 | ELECTIVE - III |

NOTE: -

* Common to E & TC All Branches and Electronics Branch -2017 Credit Pattern.

Additional 15 Minutes per hour each paper.

The backlog students of M.E. (2013 Patt.) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|------------------------------------|
| Monday 25-07-2022 | 504401 | MATHEMATICS FOR SIGNAL PROCESSING |
| Tuesday 26-07-2022 | 504402 | DIGITAL IMAGE AND VIDEO PROCESSING |
| Wednesday 27-07-2022 | 504403 | ADVANCED DIGITAL SIGNAL PROCESSING |
| Thursday 28-07-2022 | 504404 | * RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 504405 | ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|------------------------------|
| Friday 05-08-2022 | 504407 | BIOMEDICAL SIGNAL PROCESSING |
| Monday 08-08-2022 | 504408 | SPEECH PROCESSING |
| Friday 12-08-2022 | 504409 | COMPUTER VISION |
| Wednesday 17-08-2022 | 504410 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-----------------------------------|
| Monday 25-07-2022 | 604401 | STATISTICAL SIGNAL PROCESSING |
| Tuesday 26-07-2022 | 604402 | STILL IMAGE AND VIDEO COMPRESSION |
| Wednesday 27-07-2022 | 604403 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

* Common to E & TC All Branches and Electronics Branch -2017 Credit Pattern

The backlog students of M.E. (2013 Patt.) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--------------------------|
| Monday 25-07-2022 | 504201 | DIGITAL CMOS DESIGN |
| Tuesday 26-07-2022 | 504202 | RECONFIGURABLE COMPUTING |
| Wednesday 27-07-2022 | 504203 | EMBEDDED SYSTEM DESIGN |
| Thursday 28-07-2022 | 504204 | * RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 504205 | ELECTIVE I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-----------------------------|
| Friday 05-08-2022 | 504207 | ANALOG CMOS DESIGN |
| Monday 08-08-2022 | 504208 | SYSTEM ON CHIP |
| Friday 12-08-2022 | 504209 | EMBEDDED AUTOMOTIVE SYSTEMS |
| Wednesday 17-08-2022 | 504210 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Monday 25-07-2022 | 604201 | TESTING AND VERIFICATION OF VLSI CIRCUITS |
| Tuesday 26-07-2022 | 604202 | ASIC DESIGN |
| Wednesday 27-07-2022 | 604203 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

* Common to E & TC All Branches and Electronics Branch -2017 Credit Pattern.

The backlog students of M.E. (2013 Patt.) will have to appear for equivalence subject of M.E. (2017 Patt.)

**M.E. ELECTRONICS & TELECOMMUNICATION
(Wireless Communication Technology) (2020)
(2017 PAT.)/F-2022**

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--------------------------------------|
| Monday 25-07-2022 | 504601 | Advanced Digital Communications |
| Tuesday 26-07-2022 | 504602 | Cellular Wireless Communications |
| Wednesday 27-07-2022 | 504603 | Probability and Stochastic Processes |
| Thursday 28-07-2022 | 504604 | Research Methodology |
| Friday 29-07-2022 | 504605 | Elective - I |

SEMESTER - II

Time:-2.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Friday 05-08-2022 | 504608 | Signal Processing Wireless Communication |
| Monday 08-08-2022 | 504609 | Information Theory and Coding |
| Friday 12-08-2022 | 504610 | Antennas for Modern Wireless Communications |
| Wednesday 17-08-2022 | 504611 | Elective - II |

SEMESTER - III

Time:-2.00 AM To 5.00 AM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|----------------------------|
| Monday 25-07-2022 | 604601 | Advanced Wireless Networks |
| Tuesday 26-07-2022 | 604602 | SDR and Cognitive Radio |
| Wednesday 27-07-2022 | 604603 | Elective - III |

NOTE: -

Additional 15 minutes per hour to each paper.

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|------------------------------|
| Monday 25-07-2022 | 504101 | ANALOG & DIGITAL CMOS DESIGN |
| Tuesday 26-07-2022 | 504102 | MULTIRATE SIGNAL PROCESSING |
| Wednesday 27-07-2022 | 504103 | EMBEDDED SYSTEM DESIGN |
| Thursday 28-07-2022 | 504104 | * RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 504105 | ELECTIVE I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--------------------------------------|
| Friday 05-08-2022 | 504107 | ADVANCED DSP PROCESSORS |
| Monday 08-08-2022 | 504108 | PLD'S AND ASIC DESIGN |
| Friday 12-08-2022 | 504109 | IMAGE PROCESSING AND COMPUTER VISION |
| Wednesday 17-08-2022 | 504110 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|----------------------------------|
| Monday 25-07-2022 | 604101 | SYSTEM ON CHIP DESIGN |
| Tuesday 26-07-2022 | 604102 | WIRELESS SENSORS NETWORK FOR IOT |
| Wednesday 27-07-2022 | 604103 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

* Common to Electronics Branch and E & TC All Branches - 2017 Credit Pattern.

The backlog students of M.E.(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--------------------------------------|
| Monday 25-07-2022 | 511501 | Computational Mathematics |
| Tuesday 26-07-2022 | 511502 | Robot Control System |
| Wednesday 27-07-2022 | 511503 | Robotics Based Industrial Automation |
| Thursday 28-07-2022 | 511504 | Research Methodology |
| Friday 29-07-2022 | 511505 | ELECTIVE-I |

SEMESTER - II

Time:-2.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Friday 05-08-2022 | 511507 | Robot Programming |
| Monday 08-08-2022 | 511508 | Advanced Robot kinematics and Dynamics |
| Friday 12-08-2022 | 511509 | Robot vision system |
| Wednesday 17-08-2022 | 511510 | Elective-II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-------------------------------------|
| Monday 25-07-2022 | 611501 | Artificial Intelligence in Robotics |
| Tuesday 26-07-2022 | 611502 | Soft Computing in Robotics |
| Wednesday 27-07-2022 | 611503 | Elective-III |

NOTE: -

1) Additional 15 minutes per hour to each paper.

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|---|
| Monday 25-07-2022 | 514401 | MATHEMATICAL FOUNDATION OF INFORMATION TECHNOLOGY |
| Tuesday 26-07-2022 | 514402 | ADVANCE SOFTWARE ENGINEERING & PROJECT MANAGEMENT |
| Wednesday 27-07-2022 | 514403 | APPLIED ALGORITHMS |
| Thursday 28-07-2022 | 514404 | RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 514405 | ELECTIVE I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--|
| Friday 05-08-2022 | 514407 | CYBER SECURITY AND FORENSICS |
| Monday 08-08-2022 | 514408 | CLOUD AND DATA TECHNOLOGIES |
| Friday 12-08-2022 | 514409 | INFORMATION TECHNOLOGY ORIENTED OPERATIONS RESEARCH |
| Wednesday 17-08-2022 | 514410 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--------------------------|
| Monday 25-07-2022 | 5144013 | MOBILE AD-HOC NETWORKS |
| Tuesday 26-07-2022 | 5144014 | ADVANCE OPERATING SYSTEM |
| Wednesday 27-07-2022 | 5144015 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Monday 25-07-2022 | 506101 | MATHEMATICAL METHODS IN INSTRUMENTATION |
| Tuesday 26-07-2022 | 506102 | TRANSDUCER DESIGN |
| Wednesday 27-07-2022 | 506103 | INDUSTRIAL AUTOMATION |
| Thursday 28-07-2022 | 506104 | RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 506105 | ELECTIVE I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|------------------------------|
| Friday 05-08-2022 | 506107 | PROCESS DYNAMICS AND CONTROL |
| Monday 08-08-2022 | 506108 | EMBEDDED SYSTEM DESIGN |
| Friday 12-08-2022 | 506109 | CONTROL SYSTEM |
| Wednesday 17-08-2022 | 506110 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|----------------------------|
| Monday 25-07-2022 | 606101 | ADVANCED SIGNAL PROCESSING |
| Tuesday 26-07-2022 | 606102 | BUILDING AUTOMATION |
| Wednesday 27-07-2022 | 606103 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-----------------------------------|
| Monday 25-07-2022 | 507201 | * ADVANCED MATHEMATICS |
| Tuesday 26-07-2022 | 502302 | AUTOMOTIVE ENGINE DESIGN |
| Wednesday 27-07-2022 | 502303 | AUTOMOTIVE SAFETY AND REGULATIONS |
| Thursday 28-07-2022 | 502104 | ** RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 502305 | ** ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-------------------------------|
| Friday 05-08-2022 | 502307 | ENGINE COMBUSTION TECHNOLOGY |
| Monday 08-08-2022 | 502308 | NOISE VIBRATION AND HARSHNESS |
| Friday 12-08-2022 | 502309 | AUTOMOTIVE CHASSIS DESIGN |
| Wednesday 17-08-2022 | 502310 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|------------------|
| Monday 25-07-2022 | 602313 | VEHICLE DYNAMICS |
| Tuesday 26-07-2022 | 602314 | AUTOTRONICS |
| Wednesday 27-07-2022 | 602315 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

*Common to Mechanical (Design & CADM & E) - 2017 Credit Pattern

** Common to All Mechanical Branches - 2017 Credit Pattern

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-------------------------|
| Monday 25-07-2022 | 507201 | * ADVANCE MATHEMATICS |
| Tuesday 26-07-2022 | 502402 | ADVANCED MACHINE DESIGN |
| Wednesday 27-07-2022 | 502403 | COMPUTER AIDED DESIGN |
| Thursday 28-07-2022 | 502104 | ** RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 502405 | ** ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Friday 05-08-2022 | 502407 | COMPUTER INTEGRATED MANUFACTURING |
| Monday 08-08-2022 | 502408 | INDUSTRIAL PRODUCT DESIGN & PRODUCT LIFE CYCLE MANAGEMENT |
| Friday 12-08-2022 | 502409 | AUTOMATED MANUFACTURING SYSTEM MODELLING |
| Wednesday 17-08-2022 | 502410 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-------------------------|
| Monday 25-07-2022 | 602413 | SIMULATION MODELING |
| Tuesday 26-07-2022 | 602414 | OPTIMIZATION TECHNIQUES |
| Wednesday 27-07-2022 | 602415 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

*Common to Mechanical (Design & CADM & E) - 2017 Credit Pattern

**Common to All Mechanical Branches - 2017 Credit Pattern

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Monday 25-07-2022 | 507201 | * ADVANCED MATHEMATICS |
| Tuesday 26-07-2022 | 502202 | MATERIAL SCIENCE AND MECHANICAL BEHAVIOR OF MATERIALS |
| Wednesday 27-07-2022 | 502203 | ADVANCED STRESS ANALYSIS |
| Thursday 28-07-2022 | 502104 | ** RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 502205 | ** ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--------------------------------------|
| Friday 05-08-2022 | 502207 | ANALYSIS AND SYSTHESIS OF MECHANISMS |
| Monday 08-08-2022 | 502208 | ADVANCED MECHANICAL VIBRATIONS |
| Friday 12-08-2022 | 502209 | FINITE ELEMENT METHOD |
| Wednesday 17-08-2022 | 502210 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--------------------------------------|
| Monday 25-07-2022 | 602213 | OPTIMIZATION TECHNIQUES |
| Tuesday 26-07-2022 | 602214 | MECHANICAL MEASUREMENTS AND CONTROLS |
| Wednesday 27-07-2022 | 602215 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

*Common to Mechanical (Automotive Engg & CADM & E) - 2017 Credit Pattern

**Common to All Mechanical Branches - 2017 Credit Pattern

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Monday 25-07-2022 | 502501 | * ADVANCED MATHEMATICS AND NUMERICAL METHODS |
| Tuesday 26-07-2022 | 502502 | ADVANCED THERMODYNAMICS |
| Wednesday 27-07-2022 | 502503 | NON-CONVENTIONAL ENERGY SOURCES |
| Thursday 28-07-2022 | 502104 | ** RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 502505 | ** ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-----------------------------------|
| Friday 05-08-2022 | 502507 | ADVANCED HEAT TRANSFER |
| Monday 08-08-2022 | 502508 | ENERGY CONVERSION AND ENVIRONMENT |
| Friday 12-08-2022 | 502509 | ADVANCED FLUID MECHANICS |
| Wednesday 17-08-2022 | 502510 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Monday 25-07-2022 | 602513 | ENERGY MANAGEMENT |
| Tuesday 26-07-2022 | 602514 | ENERGY SYSTEMS MODELING AND OPTIMIZATION |
| Wednesday 27-07-2022 | 602515 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

*Common to Mechanical (Heat Power) - 2017 Credit Pattern

**Common to All Mechanical Branches - 2017 Credit Pattern

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|---|
| Monday 25-07-2022 | 507101 | * ADVANCED MATHEMATICS AND NUMERICAL METHODS |
| Tuesday 26-07-2022 | 502102 | ADVANCED THERMODYNAMICS AND COMBUSTION TECHNOLOGY |
| Wednesday 27-07-2022 | 502103 | ADVANCED FLUID MECHANICS |
| Thursday 28-07-2022 | 502104 | ** RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 502105 | ** ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|-----------------------------|
| Friday 05-08-2022 | 502107 | ADVANCED HEAT TRANSFER |
| Monday 08-08-2022 | 502108 | AIR CONDITIONING TECHNOLOGY |
| Friday 12-08-2022 | 502109 | MEASUREMENTS AND CONTROLS |
| Wednesday 17-08-2022 | 502110 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|------------------------------------|
| Monday 25-07-2022 | 602113 | COMPUTATIONAL FLUID DYNAMICS |
| Tuesday 26-07-2022 | 602114 | DESIGN OF HEAT TRANSFER EQUIPMENTS |
| Wednesday 27-07-2022 | 602115 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

*Common to Mechanical (Energy Engineering) - 2017 Credit Pattern

**Common to All Mechanical Branches - 2017 Credit Pattern

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Monday 25-07-2022 | 502801 | SYSTEM MODELLING, IDENTIFICATION AND SIMULATION |
| Tuesday 26-07-2022 | 502802 | CONTROL SYSTEMS - I |
| Wednesday 27-07-2022 | 502803 | SENSORS, TRANSDUCERS AND INTERFACING TECHNIQUES |
| Thursday 28-07-2022 | 502104 | ** RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 502805 | ** ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-------------------------------|
| Friday 05-08-2022 | 502807 | PLC PROGRAMMING |
| Monday 08-08-2022 | 502808 | CONTROL SYSTEMS - II |
| Friday 12-08-2022 | 502809 | INDUSTRIAL DRIVES & ACTUATORS |
| Wednesday 17-08-2022 | 502810 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Monday 25-07-2022 | 602813 | MICROCONTROLLER APPLICATIONS IN EMBEDDED SYSTEMS |
| Tuesday 26-07-2022 | 602814 | FLEXIBLE MANUFACTURING SYSTEMS |
| Wednesday 27-07-2022 | 602815 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

**Common to All Mechanical Branches - 2017 Credit Pattern

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Monday 25-07-2022 | 508101 | PROBABILITY, STATISTICS AND REGRASSION ANALYSIS |
| Tuesday 26-07-2022 | 508102 | PRINTING TECHNOLOGY MANAGEMENT |
| Wednesday 27-07-2022 | 508103 | MODERN TRENDS IN PRINTING |
| Thursday 28-07-2022 | 508104 | RESEARCH METHODOLOGY |
| Friday 29-07-2022 | 508105 | ELECTIVE - I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-----------------------|
| Friday 05-08-2022 | 508107 | COLOUR SCIENCE |
| Monday 08-08-2022 | 508108 | WEB HANDLING ON PRESS |
| Friday 12-08-2022 | 508109 | SUBSTRATE AND INK |
| Wednesday 17-08-2022 | 508110 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--------------------------------------|
| Monday 25-07-2022 | 608101 | PRINTED ELECTRONICS AND RFID |
| Tuesday 26-07-2022 | 608102 | ADVANCES IN CONVERTING AND PACKAGING |
| Wednesday 27-07-2022 | 608103 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|------------------------------|
| Monday 25-07-2022 | 511101 | * MATHEMATICS AND STATISTICS |
| Tuesday 26-07-2022 | 511102 | * RESEARCH METHODOLOGY |
| Wednesday 27-07-2022 | 511301 | COMPUTER AIDED DESIGN |
| Thursday 28-07-2022 | 511302 | COMPUTER AIDED MANUFACTURING |
| Friday 29-07-2022 | 511303 | ELECTIVE I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--------------------------------------|
| Friday 05-08-2022 | 511305 | * COMPUTER INTEGRATED MANUFACTURING |
| Monday 08-08-2022 | 511306 | * ARTIFICIAL INTELLIGENCE & ROBOTICS |
| Friday 12-08-2022 | 511307 | COMPUTATION TECHNIQUES IN CAD/CAM |
| Wednesday 17-08-2022 | 511308 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Monday 25-07-2022 | 611101 | * COMPUTATIONAL INTELLIGENCE IN TOOL DESIGN |
| Tuesday 26-07-2022 | 511311 | COMPUTER AIDED PRODUCTION PLANNING |
| Wednesday 27-07-2022 | 511312 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

*Common to ProductionI (Manufacturing & Automation) - 2017 Credit Pattern

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

SEMESTER - I

Time:-9.00 AM To 12.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|----------------------------------|
| Monday 25-07-2022 | 511101 | * MATHEMATICS & STATISTICS |
| Tuesday 26-07-2022 | 511102 | * RESEARCH METHODOLOGY |
| Wednesday 27-07-2022 | 511103 | ADVANCED MANUFACTURING PROCESSES |
| Thursday 28-07-2022 | 511104 | INDUSTRIAL AUTOMATION |
| Friday 29-07-2022 | 511105 | ELECTIVE I |

SEMESTER - II

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|--------------------------------------|
| Friday 05-08-2022 | 511305 | * COMPUTER INTEGRATED MANUFACTURING |
| Monday 08-08-2022 | 511306 | * ARTIFICIAL INTELLIGENCE & ROBOTICS |
| Friday 12-08-2022 | 511109 | ADDITIVE MANUFACTURING |
| Wednesday 17-08-2022 | 511110 | ELECTIVE - II |

SEMESTER - III

Time:-02.00 PM To 5.00 PM

| Day & Date | Paper Code | Subject |
|-------------------------|-------------------|---|
| Monday 25-07-2022 | 611101 | * COMPUTATIONAL INTELLIGENCE IN TOOL DESIGN |
| Tuesday 26-07-2022 | 611102 | MECHATRONICS |
| Wednesday 27-07-2022 | 611103 | ELECTIVE - III |

NOTE: -

Additional 15 Minutes per hour each paper.

*Common to Production (CAD/CAM) - 2017 Credit Pattern

The backlog students of M.E..(2013 Patt) will have to appear for equivalence subject of M.E. (2017 Patt.)

Ganeshkhind, Pune - 411 007

Ref.No/XCT:317

Date:14/07/2022

Director,

**Board of Examinations and Evaluation
Page 36 of 36**