



# ADITYA ENGINEERING COLLEGE

An Autonomous Institution

Approved by AICTE • Permanently Affiliated to JNTUK • Accredited by NAAC with 'A' Grade

Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

## Number of Courses offered programwise during the academic year 2021-2022

| S. No        | Name of the program                                     | Number of courses |
|--------------|---------------------------------------------------------|-------------------|
| 1            | B. Tech. (Civil Engineering)                            | 87                |
| 2            | B. Tech. (Electrical and Electronics Engineering)       | 78                |
| 3            | B. Tech. (Mechanical Engineering)                       | 93                |
| 4            | B. Tech. (Electronics and Communication Engineering)    | 87                |
| 5            | B. Tech. (Computer Science and Engineering)             | 78                |
| 6            | M. Tech. (Petroleum Engineering)                        | 33                |
| 7            | B. Tech. (Information Technology)                       | 28                |
| 8            | M. Tech. (Thermal Engineering)                          | 36                |
| 9            | B. Tech. (Mining Engineering)                           | 65                |
| 10           | B. Tech. (Petroleum Technology)                         | 74                |
| 11           | B. Tech. (Agricultural Engineering)                     | 69                |
| 12           | M. Tech. (Power Electronics and Drives)                 | 32                |
| 13           | M. Tech. (Computer Science & Engineering)               | 31                |
| 14           | B. Tech. (Artificial Intelligence and Machine Learning) | 7                 |
| 15           | M. Tech. (VLSI Design)                                  | 48                |
| 16           | M. Tech. (Structural Engineering)                       | 41                |
| 17           | Master of Business Administration                       | 102               |
| 18           | Master of Computer Applications                         | 87                |
| 19           | Integrated Master of Business Administration            | 30                |
| <b>Total</b> |                                                         | <b>1106</b>       |

**PRINCIPAL**

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**ADITYA ENGINEERING COLLEGE**  
**SURAMPALEM - 533 437**



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## List of courses program-wise during the academic year 2021-2022

| S. No | Program-wise S. No | Program Name                 | Course Code | Course Name                                    |
|-------|--------------------|------------------------------|-------------|------------------------------------------------|
| 1     | 1                  | B. Tech. (Civil Engineering) | 171CE7E10   | Advanced Structural Engineering                |
| 2     | 2                  | B. Tech. (Civil Engineering) | 171CE7E11   | Watershed Management                           |
| 3     | 3                  | B. Tech. (Civil Engineering) | 171CE7E12   | Design of Tall Buildings                       |
| 4     | 4                  | B. Tech. (Civil Engineering) | 171CE7E13   | PE V Bridge Engineering                        |
| 5     | 5                  | B. Tech. (Civil Engineering) | 171CE7E14   | Environmental Impact Assessment and Management |
| 6     | 6                  | B. Tech. (Civil Engineering) | 171CE7E15   | Water Resources Systems Planning               |
| 7     | 7                  | B. Tech. (Civil Engineering) | 171CE7L08   | Environmental Engineering Lab                  |
| 8     | 8                  | B. Tech. (Civil Engineering) | 171CE7L09   | GIS And Computer Aided Design (CAD) Lab        |
| 9     | 9                  | B. Tech. (Civil Engineering) | 171CE7P01   | Industry Oriented (Internship) Minor Project   |
| 10    | 10                 | B. Tech. (Civil Engineering) | 171CE7T18   | Geotechnical Engineering - II                  |
| 11    | 11                 | B. Tech. (Civil Engineering) | 171CE7T19   | Environmental Engineering                      |
| 12    | 12                 | B. Tech. (Civil Engineering) | 171CE7T20   | Remote Sensing and GIS Applications            |
| 13    | 13                 | B. Tech. (Civil Engineering) | 171CE7T21   | Estimation, Specifications and Contracts       |
| 14    | 14                 | B. Tech. (Civil Engineering) | 171CE8E16   | Urban Transportation Planning Engineering      |
| 15    | 15                 | B. Tech. (Civil Engineering) | 171CE8E17   | Soil Dynamics and Foundations                  |
| 16    | 16                 | B. Tech. (Civil Engineering) | 171CE8E18   | Solid And Hazardous Waste Management           |
| 17    | 17                 | B. Tech. (Civil Engineering) | 171CE8E19   | Air Pollution and Control                      |
| 18    | 18                 | B. Tech. (Civil Engineering) | 171CE8O01   | Electronic Instrumentation                     |
| 19    | 19                 | B. Tech. (Civil Engineering) | 171CE8O02   | Database Management Systems                    |
| 20    | 20                 | B. Tech. (Civil Engineering) | 171CE8O03   | Alternative Energy Sources                     |
| 21    | 21                 | B. Tech. (Civil Engineering) | 171CE8O04   | Waste Water Management                         |
| 22    | 22                 | B. Tech. (Civil Engineering) | 171CE8O05   | Fundamentals of Liquefied Natural Gas          |
| 23    | 23                 | B. Tech. (Civil Engineering) | 171CE8O06   | Green Fuel Technologies                        |
| 24    | 24                 | B. Tech. (Civil Engineering) | 171CE8O07   | Green Engineering Systems                      |

| S. No | Program-wise<br>S. No | Program Name                 | Course Code | Course Name                                          |
|-------|-----------------------|------------------------------|-------------|------------------------------------------------------|
| 25    | 25                    | B. Tech. (Civil Engineering) | 171CE8P02   | Major Project                                        |
| 26    | 26                    | B. Tech. (Civil Engineering) | 191CE5E01   | Airport Planning and Design                          |
| 27    | 27                    | B. Tech. (Civil Engineering) | 191CE5E02   | Construction Technology and Management               |
| 28    | 28                    | B. Tech. (Civil Engineering) | 191CE5E03   | Environmental Pollution and Control                  |
| 29    | 29                    | B. Tech. (Civil Engineering) | 191CE5E04   | Subsurface Investigation and Instrumentation         |
| 30    | 30                    | B. Tech. (Civil Engineering) | 191CE5E05   | Urban Hydrology                                      |
| 31    | 31                    | B. Tech. (Civil Engineering) | 191CE5L05   | Engineering geology lab                              |
| 32    | 32                    | B. Tech. (Civil Engineering) | 191CE5L06   | Geotechnical engineering lab                         |
| 33    | 33                    | B. Tech. (Civil Engineering) | 191CE5O01   | Basic Concrete Technology                            |
| 34    | 34                    | B. Tech. (Civil Engineering) | 191CE5T09   | Irrigation and water resource Engineering            |
| 35    | 35                    | B. Tech. (Civil Engineering) | 191CE5T10   | Engineering geology                                  |
| 36    | 36                    | B. Tech. (Civil Engineering) | 191CE5T11   | Design and drawing of Reinforced concrete structures |
| 37    | 37                    | B. Tech. (Civil Engineering) | 191CE5T12   | Geotechnical engineering                             |
| 38    | 38                    | B. Tech. (Civil Engineering) | 191CE6E06   | Air Pollution Engineering                            |
| 39    | 39                    | B. Tech. (Civil Engineering) | 191CE6E07   | Ground Improvement Techniques                        |
| 40    | 40                    | B. Tech. (Civil Engineering) | 191CE6E08   | Hydropower Development                               |
| 41    | 41                    | B. Tech. (Civil Engineering) | 191CE6E09   | Railway Engineering                                  |
| 42    | 42                    | B. Tech. (Civil Engineering) | 191CE6E10   | Repair and Rehabilitation of Structures              |
| 43    | 43                    | B. Tech. (Civil Engineering) | 191CE6E11   | Docks and Harbour Engineering                        |
| 44    | 44                    | B. Tech. (Civil Engineering) | 191CE6E12   | Expansive Soils                                      |
| 45    | 45                    | B. Tech. (Civil Engineering) | 191CE6E13   | Finite Element Methods                               |
| 46    | 46                    | B. Tech. (Civil Engineering) | 191CE6E14   | Industrial Waste and Waste-Water Engineering         |
| 47    | 47                    | B. Tech. (Civil Engineering) | 191CE6E15   | Water Resources System Analysis                      |
| 48    | 48                    | B. Tech. (Civil Engineering) | 191CE6L07   | Transportation engineering lab                       |
| 49    | 49                    | B. Tech. (Civil Engineering) | 191CE6L08   | Computer aided design lab                            |
| 50    | 50                    | B. Tech. (Civil Engineering) | 191CE6L09   | Irrigation design and drawing                        |
| 51    | 51                    | B. Tech. (Civil Engineering) | 191CE6O02   | Disaster Management                                  |
| 52    | 52                    | B. Tech. (Civil Engineering) | 191CE6T13   | Design and drawing of steel Structures               |
| 53    | 53                    | B. Tech. (Civil Engineering) | 191CE6T14   | Highway engineering                                  |

| S. No | Program-wise<br>S. No | Program Name                 | Course Code | Course Name                                 |
|-------|-----------------------|------------------------------|-------------|---------------------------------------------|
| 54    | 54                    | B. Tech. (Civil Engineering) | 191CE6T15   | Foundation engineering                      |
| 55    | 55                    | B. Tech. (Civil Engineering) | 201BS1L01   | Engineering Physics Lab                     |
| 56    | 56                    | B. Tech. (Civil Engineering) | 201BS2T06   | Transform Techniques                        |
| 57    | 57                    | B. Tech. (Civil Engineering) | 201CE3L01   | Building Planning and Drawing Lab           |
| 58    | 58                    | B. Tech. (Civil Engineering) | 201CE3L02   | Concrete Technology Lab                     |
| 59    | 59                    | B. Tech. (Civil Engineering) | 201CE3L03   | Strength of Materials Lab                   |
| 60    | 60                    | B. Tech. (Civil Engineering) | 201CE3T01   | Strength of Materials-I                     |
| 61    | 61                    | B. Tech. (Civil Engineering) | 201CE3T02   | Fluid Mechanics                             |
| 62    | 62                    | B. Tech. (Civil Engineering) | 201CE3T03   | Structural Analysis                         |
| 63    | 63                    | B. Tech. (Civil Engineering) | 201CE3T04   | Concrete Technology                         |
| 64    | 64                    | B. Tech. (Civil Engineering) | 201CE4L04   | Engineering Geology Lab                     |
| 65    | 65                    | B. Tech. (Civil Engineering) | 201CE4L05   | FM and HM Lab                               |
| 66    | 66                    | B. Tech. (Civil Engineering) | 201CE4T05   | Engineering Geology                         |
| 67    | 67                    | B. Tech. (Civil Engineering) | 201CE4T06   | Strength of Materials-II                    |
| 68    | 68                    | B. Tech. (Civil Engineering) | 201CE4T07   | Hydraulics and Hydraulic Machinery          |
| 69    | 69                    | B. Tech. (Civil Engineering) | 201CE4T08   | Soil Mechanics                              |
| 70    | 70                    | B. Tech. (Civil Engineering) | 201CS3L01   | Object Oriented Programming through C++ Lab |
| 71    | 71                    | B. Tech. (Civil Engineering) | 201CS3L02   | Operating Systems Lab                       |
| 72    | 72                    | B. Tech. (Civil Engineering) | 201CS3L03   | Unix and Shell Programming Lab              |
| 73    | 73                    | B. Tech. (Civil Engineering) | 201CS3T01   | Advanced Data Structures                    |
| 74    | 74                    | B. Tech. (Civil Engineering) | 201CS3T02   | Object Oriented Programming through C++     |
| 75    | 75                    | B. Tech. (Civil Engineering) | 201CS3T03   | Operating Systems                           |
| 76    | 76                    | B. Tech. (Civil Engineering) | 201CS3T04   | Software Engineering                        |
| 77    | 77                    | B. Tech. (Civil Engineering) | 201CS4L04   | Database Management Systems Lab             |
| 78    | 78                    | B. Tech. (Civil Engineering) | 201CS4L05   | Java Programming Lab                        |
| 79    | 79                    | B. Tech. (Civil Engineering) | 201CS4L06   | R Programming Lab                           |
| 80    | 80                    | B. Tech. (Civil Engineering) | 201CS4T05   | Formal Languages and Automata Theory        |
| 81    | 81                    | B. Tech. (Civil Engineering) | 201CS4T06   | Database Management Systems                 |
| 82    | 82                    | B. Tech. (Civil Engineering) | 201CS4T07   | Java programming                            |

| S. No | Program-wise<br>S. No | Program Name                                         | Course Code | Course Name                                  |
|-------|-----------------------|------------------------------------------------------|-------------|----------------------------------------------|
| 83    | 83                    | B. Tech. (Civil Engineering)                         | 201ES1I01   | Engineering Graphics                         |
| 84    | 84                    | B. Tech. (Civil Engineering)                         | 201ES2L06   | Surveying field Work                         |
| 85    | 85                    | B. Tech. (Civil Engineering)                         | 201ES2T05   | Engineering Mechanics                        |
| 86    | 86                    | B. Tech. (Civil Engineering)                         | 201ES3T16   | Metallurgy & Material Science                |
| 87    | 87                    | B. Tech. (Civil Engineering)                         | 201HS1T01   | Communicative English                        |
| 88    | 1                     | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE7E11   | Optimization Techniques                      |
| 89    | 2                     | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE7E12   | Digital Signal Processing                    |
| 90    | 3                     | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE7E13   | Special Electrical Machines                  |
| 91    | 4                     | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE7E14   | High Voltage Engineering                     |
| 92    | 5                     | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE7E15   | Electric Power Quality                       |
| 93    | 6                     | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE7E16   | EHVAC Transmission                           |
| 94    | 7                     | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE7L09   | Power Systems Simulation Lab                 |
| 95    | 8                     | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE7L10   | Micro Processor and Micro Controllers Lab    |
| 96    | 9                     | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE7P01   | Industry Oriented (Internship) Minor Project |
| 97    | 10                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE7T18   | Utilization of Electrical Energy             |
| 98    | 11                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE7T19   | Linear and Digital IC Applications           |
| 99    | 12                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE7T20   | Power System Operation and Control           |
| 100   | 13                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE7T21   | Switch Gear and Protection                   |
| 101   | 14                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE8E17   | HVDC Transmission                            |
| 102   | 15                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE8E18   | Flexible AC Transmission Systems             |
| 103   | 16                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE8E19   | Power System Reforms                         |
| 104   | 17                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE8E20   | Digital Control Systems                      |
| 105   | 18                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE8O01   | Energy Audit, Conservation and Management    |
| 106   | 19                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE8O02   | VLSI Design                                  |
| 107   | 20                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE8O03   | Unix and Shell Programming                   |
| 108   | 21                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE8O04   | Neural Networks And Fuzzy Logic              |
| 109   | 22                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE8O05   | Robotics                                     |
| 110   | 23                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE8O06   | Vehicular Electric Power Systems             |
| 111   | 24                    | B. Tech. (Electrical and<br>Electronics Engineering) | 171EE8O07   | Internet of Things                           |

| S. No | Program-wise<br>S. No | Program Name                                      | Course Code | Course Name                                             |
|-------|-----------------------|---------------------------------------------------|-------------|---------------------------------------------------------|
| 112   | 25                    | B. Tech. (Electrical and Electronics Engineering) | 171EE8O08   | Cyber Security                                          |
| 113   | 26                    | B. Tech. (Electrical and Electronics Engineering) | 171EE8P02   | Major Project                                           |
| 114   | 27                    | B. Tech. (Electrical and Electronics Engineering) | 191EE5E01   | Advanced Control Systems                                |
| 115   | 28                    | B. Tech. (Electrical and Electronics Engineering) | 191EE5E02   | Electrical Machine Modeling and Analysis                |
| 116   | 29                    | B. Tech. (Electrical and Electronics Engineering) | 191EE5E03   | Renewable energy systems                                |
| 117   | 30                    | B. Tech. (Electrical and Electronics Engineering) | 191EE5L04   | Electrical Machines-II Lab                              |
| 118   | 31                    | B. Tech. (Electrical and Electronics Engineering) | 191EE5L05   | Control Systems Lab                                     |
| 119   | 32                    | B. Tech. (Electrical and Electronics Engineering) | 191EE5O01   | Advanced Separation Techniques                          |
| 120   | 33                    | B. Tech. (Electrical and Electronics Engineering) | 191EE5O02   | Storage and Transportation of Crude oil and Natural gas |
| 121   | 34                    | B. Tech. (Electrical and Electronics Engineering) | 191EE5O03   | Basic Electrical Measurements                           |
| 122   | 35                    | B. Tech. (Electrical and Electronics Engineering) | 191EE5T10   | Power Systems –II                                       |
| 123   | 36                    | B. Tech. (Electrical and Electronics Engineering) | 191EE5T11   | Power Electronics                                       |
| 124   | 37                    | B. Tech. (Electrical and Electronics Engineering) | 191EE5T12   | Electrical Measurements and Instrumentation             |
| 125   | 38                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6E05   | Advanced Power Electronics Converters                   |
| 126   | 39                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6E06   | Digital Control Systems                                 |
| 127   | 40                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6E07   | Electrical Distribution Systems                         |
| 128   | 41                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6E08   | Energy Audit, Conservation & Management                 |
| 129   | 42                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6E09   | Control Systems Design                                  |
| 130   | 43                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6E10   | Electrical Safety                                       |
| 131   | 44                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6E11   | High Voltage Transmission                               |
| 132   | 45                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6E12   | Switched mode power Converters                          |
| 133   | 46                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6L06   | Electrical Measurements & Instrumentation Lab           |
| 134   | 47                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6L07   | Power Electronics Lab                                   |
| 135   | 48                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6O04   | OE II Energy Audit and Conservation Management          |
| 136   | 49                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6O05   | Non Conventional Energy resources                       |
| 137   | 50                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6O06   | Instrumentation                                         |
| 138   | 51                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6T13   | Microprocessor & Interfacing                            |
| 139   | 52                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6T14   | Power System Analysis                                   |
| 140   | 53                    | B. Tech. (Electrical and Electronics Engineering) | 191EE6T15   | Power Converter Drives                                  |

| S. No | Program-wise<br>S. No | Program Name                                      | Course Code | Course Name                                                    |
|-------|-----------------------|---------------------------------------------------|-------------|----------------------------------------------------------------|
| 141   | 54                    | B. Tech. (Electrical and Electronics Engineering) | 191ES5T16   | Employability Skills – III                                     |
| 142   | 55                    | B. Tech. (Electrical and Electronics Engineering) | 191ES6T17   | Employability Skills - IV                                      |
| 143   | 56                    | B. Tech. (Electrical and Electronics Engineering) | 191HS5T05   | Managerial Economics and Financial Analysis                    |
| 144   | 57                    | B. Tech. (Electrical and Electronics Engineering) | 191HS5T06   | Employability Skills - III                                     |
| 145   | 58                    | B. Tech. (Electrical and Electronics Engineering) | 191HS6T07   | Employability skills - IV                                      |
| 146   | 59                    | B. Tech. (Electrical and Electronics Engineering) | 201BS1L02   | Engineering Physics Lab                                        |
| 147   | 60                    | B. Tech. (Electrical and Electronics Engineering) | 201BS2T07   | Numerical Methods and Complex Variables                        |
| 148   | 61                    | B. Tech. (Electrical and Electronics Engineering) | 201EE3LQ1   | DC machines and transformers Lab                               |
| 149   | 62                    | B. Tech. (Electrical and Electronics Engineering) | 201EE3L02   | Electrical Circuits Lab                                        |
| 150   | 63                    | B. Tech. (Electrical and Electronics Engineering) | 201EE3L03   | Analog Electronic Circuits Lab                                 |
| 151   | 64                    | B. Tech. (Electrical and Electronics Engineering) | 201EE3T01   | Analog Electronic Circuits                                     |
| 152   | 65                    | B. Tech. (Electrical and Electronics Engineering) | 201EE3T02   | Electrical Circuit Analysis                                    |
| 153   | 66                    | B. Tech. (Electrical and Electronics Engineering) | 201EE3T03   | DC Machines and transformers                                   |
| 154   | 67                    | B. Tech. (Electrical and Electronics Engineering) | 201EE3T04   | Electromagnetic Fields                                         |
| 155   | 68                    | B. Tech. (Electrical and Electronics Engineering) | 201EE4L04   | Induction and Synchronous Machines Lab                         |
| 156   | 69                    | B. Tech. (Electrical and Electronics Engineering) | 201EE4L05   | Digital Electronics lab                                        |
| 157   | 70                    | B. Tech. (Electrical and Electronics Engineering) | 201EE4T05   | Electrical Power Generation and Distribution Systems           |
| 158   | 71                    | B. Tech. (Electrical and Electronics Engineering) | 201EE4T06   | Digital Electronics                                            |
| 159   | 72                    | B. Tech. (Electrical and Electronics Engineering) | 201EE4T07   | Induction and Synchronous Machines                             |
| 160   | 73                    | B. Tech. (Electrical and Electronics Engineering) | 201ES1I02   | Computer Engineering Workshop                                  |
| 161   | 74                    | B. Tech. (Electrical and Electronics Engineering) | 201ES2L07   | Engineering Workshop                                           |
| 162   | 75                    | B. Tech. (Electrical and Electronics Engineering) | 201ES2T06   | Engineering Mechanics                                          |
| 163   | 76                    | B. Tech. (Electrical and Electronics Engineering) | 201ES3T17   | Basic Mechanical Engineering                                   |
| 164   | 77                    | B. Tech. (Electrical and Electronics Engineering) | 201HS2L02   | Professional Communications Skills Lab                         |
| 165   | 78                    | B. Tech. (Electrical and Electronics Engineering) | 201SO3L02   | Design of Electrical Circuits using Engineering Software Tools |
| 166   | 1                     | B. Tech. (Mechanical Engineering)                 | 171ES7L16   | Mechanical Engineering Lab                                     |
| 167   | 2                     | B. Tech. (Mechanical Engineering)                 | 171ES7T26   | Mechanical Measurements and Instrumentation                    |
| 168   | 3                     | B. Tech. (Mechanical Engineering)                 | 171HS7A04   | Managerial Economics and Financial Analysis                    |

| S. No | Program-wise<br>S. No | Program Name                      | Course Code | Course Name                                |
|-------|-----------------------|-----------------------------------|-------------|--------------------------------------------|
| 169   | 4                     | B. Tech. (Mechanical Engineering) | 171HS7T05   | Management Science                         |
| 170   | 5                     | B. Tech. (Mechanical Engineering) | 171ME7E10   | Computational Fluid Dynamics               |
| 171   | 6                     | B. Tech. (Mechanical Engineering) | 171ME7E11   | Green Engineering Systems                  |
| 172   | 7                     | B. Tech. (Mechanical Engineering) | 171ME7E12   | Nano Materials and Technology              |
| 173   | 8                     | B. Tech. (Mechanical Engineering) | 171ME7E13   | Gas Dynamics                               |
| 174   | 9                     | B. Tech. (Mechanical Engineering) | 171ME7E14   | Condition Monitoring                       |
| 175   | 10                    | B. Tech. (Mechanical Engineering) | 171ME7E15   | Flexible Manufacturing Systems             |
| 176   | 11                    | B. Tech. (Mechanical Engineering) | 171ME7L07   | CAD/CFD Lab                                |
| 177   | 12                    | B. Tech. (Mechanical Engineering) | 171ME7L08   | CAM/Mechatronics Lab                       |
| 178   | 13                    | B. Tech. (Mechanical Engineering) | 171ME7P01   | Industry Oriented(Internship) Mini Project |
| 179   | 14                    | B. Tech. (Mechanical Engineering) | 171ME7T16   | CAD/CAM                                    |
| 180   | 15                    | B. Tech. (Mechanical Engineering) | 171ME7T17   | Mechatronics                               |
| 181   | 16                    | B. Tech. (Mechanical Engineering) | 171ME7T18   | Finite Element Methods                     |
| 182   | 17                    | B. Tech. (Mechanical Engineering) | 171ME7T19   | Power Plant Engineering                    |
| 183   | 18                    | B. Tech. (Mechanical Engineering) | 171ME8E16   | Production Planning and Control            |
| 184   | 19                    | B. Tech. (Mechanical Engineering) | 171ME8E17   | Advanced Materials                         |
| 185   | 20                    | B. Tech. (Mechanical Engineering) | 171ME8E18   | Thermal Equipment Design                   |
| 186   | 21                    | B. Tech. (Mechanical Engineering) | 171ME8O01   | Java Programming                           |
| 187   | 22                    | B. Tech. (Mechanical Engineering) | 171ME8O02   | Electrical Safety Management               |
| 188   | 23                    | B. Tech. (Mechanical Engineering) | 171ME8O03   | Neural Networks and Fuzzy Logic            |
| 189   | 24                    | B. Tech. (Mechanical Engineering) | 171ME8O04   | Data Base Management Systems               |
| 190   | 25                    | B. Tech. (Mechanical Engineering) | 171ME8O05   | Entrepreneur Resource Planning             |
| 191   | 26                    | B. Tech. (Mechanical Engineering) | 171ME8O06   | Computer Graphics                          |
| 192   | 27                    | B. Tech. (Mechanical Engineering) | 171ME8P02   | Major Project                              |
| 193   | 28                    | B. Tech. (Mechanical Engineering) | 191ME5E01   | Automobile Engineering                     |
| 194   | 29                    | B. Tech. (Mechanical Engineering) | 191ME5E02   | Composite Materials                        |
| 195   | 30                    | B. Tech. (Mechanical Engineering) | 191ME5E03   | Fluid Engineering                          |
| 196   | 31                    | B. Tech. (Mechanical Engineering) | 191ME5E04   | Mechanical Vibrations                      |
| 197   | 32                    | B. Tech. (Mechanical Engineering) | 191ME5E05   | Metrology and Instrumentation              |

| S. No | Program-wise<br>S. No | Program Name                      | Course Code | Course Name                                 |
|-------|-----------------------|-----------------------------------|-------------|---------------------------------------------|
| 198   | 33                    | B. Tech. (Mechanical Engineering) | 191ME5E06   | Organizational Behaviour                    |
| 199   | 34                    | B. Tech. (Mechanical Engineering) | 191ME5L05   | Metrology/ICS Lab                           |
| 200   | 35                    | B. Tech. (Mechanical Engineering) | 191ME5L06   | Theory of Machines Lab                      |
| 201   | 36                    | B. Tech. (Mechanical Engineering) | 191ME5L07   | Thermal Engineering Lab                     |
| 202   | 37                    | B. Tech. (Mechanical Engineering) | 191ME5O01   | Renewable Energy Sources                    |
| 203   | 38                    | B. Tech. (Mechanical Engineering) | 191ME5O02   | Fundamentals of Mechanical Engineering      |
| 204   | 39                    | B. Tech. (Mechanical Engineering) | 191ME5O03   | Supply Chain Management                     |
| 205   | 40                    | B. Tech. (Mechanical Engineering) | 191ME5O04   | 3D Printing                                 |
| 206   | 41                    | B. Tech. (Mechanical Engineering) | 191ME5O05   | Entrepreneurship Development and Incubation |
| 207   | 42                    | B. Tech. (Mechanical Engineering) | 191ME5T09   | Dynamics of Machinery                       |
| 208   | 43                    | B. Tech. (Mechanical Engineering) | 191ME5T10   | Design of Machine members-I                 |
| 209   | 44                    | B. Tech. (Mechanical Engineering) | 191ME5T11   | Thermal Engineering -II                     |
| 210   | 45                    | B. Tech. (Mechanical Engineering) | 191ME6E07   | Industrial Engineering and Management       |
| 211   | 46                    | B. Tech. (Mechanical Engineering) | 191ME6E08   | Mechatronics                                |
| 212   | 47                    | B. Tech. (Mechanical Engineering) | 191ME6E09   | Non Destructive Evaluation                  |
| 213   | 48                    | B. Tech. (Mechanical Engineering) | 191ME6E10   | Refrigeration and Air Conditioning          |
| 214   | 49                    | B. Tech. (Mechanical Engineering) | 191ME6E11   | Robotics                                    |
| 215   | 50                    | B. Tech. (Mechanical Engineering) | 191ME6E12   | Additive Manufacturing                      |
| 216   | 51                    | B. Tech. (Mechanical Engineering) | 191ME6E13   | Alternative Fuels                           |
| 217   | 52                    | B. Tech. (Mechanical Engineering) | 191ME6E14   | Design for Manufacturing                    |
| 218   | 53                    | B. Tech. (Mechanical Engineering) | 191ME6E15   | Green Engineering Systems                   |
| 219   | 54                    | B. Tech. (Mechanical Engineering) | 191ME6E16   | Lean Manufacturing                          |
| 220   | 55                    | B. Tech. (Mechanical Engineering) | 191ME6L08   | Machine Cutting and Machine Tools Lab       |
| 221   | 56                    | B. Tech. (Mechanical Engineering) | 191ME6L09   | Heat Transfer Lab                           |
| 222   | 57                    | B. Tech. (Mechanical Engineering) | 191ME6O06   | Solar Energy Utilisation                    |
| 223   | 58                    | B. Tech. (Mechanical Engineering) | 191ME6O07   | Basic Thermodynamics and Heat Transfer      |
| 224   | 59                    | B. Tech. (Mechanical Engineering) | 191ME6O08   | ECAD Tools                                  |
| 225   | 60                    | B. Tech. (Mechanical Engineering) | 191ME6O09   | 3D Printing                                 |
| 226   | 61                    | B. Tech. (Mechanical Engineering) | 191ME6O10   | Robotics                                    |

| S. No | Program-wise<br>S. No | Program Name                      | Course Code | Course Name                                         |
|-------|-----------------------|-----------------------------------|-------------|-----------------------------------------------------|
| 227   | 62                    | B. Tech. (Mechanical Engineering) | 191ME6O11   | Management Science                                  |
| 228   | 63                    | B. Tech. (Mechanical Engineering) | 191ME6O12   | Entrepreneurship Development and Incubation         |
| 229   | 64                    | B. Tech. (Mechanical Engineering) | 191ME6T12   | Heat Transfer                                       |
| 230   | 65                    | B. Tech. (Mechanical Engineering) | 191ME6T13   | Design of Machine members-II                        |
| 231   | 66                    | B. Tech. (Mechanical Engineering) | 191ME6T14   | Metal Cutting and Machine Tools                     |
| 232   | 67                    | B. Tech. (Mechanical Engineering) | 191PR5P02   | Socially Relevant Project                           |
| 233   | 68                    | B. Tech. (Mechanical Engineering) | 201BS1L03   | Engineering Chemistry Lab                           |
| 234   | 69                    | B. Tech. (Mechanical Engineering) | 201BS2T08   | Chemistry of Materials                              |
| 235   | 70                    | B. Tech. (Mechanical Engineering) | 201ES1L02   | Engineering Workshop                                |
| 236   | 71                    | B. Tech. (Mechanical Engineering) | 201ES2L08   | Electronics Engineering Workshop                    |
| 237   | 72                    | B. Tech. (Mechanical Engineering) | 201ES2T07   | Engineering Mechanics                               |
| 238   | 73                    | B. Tech. (Mechanical Engineering) | 201ES4L15   | Python Programming Lab                              |
| 239   | 74                    | B. Tech. (Mechanical Engineering) | 201HS4T02   | Management Science                                  |
| 240   | 75                    | B. Tech. (Mechanical Engineering) | 201ME3L01   | Computer Aided Machine Drawing Lab                  |
| 241   | 76                    | B. Tech. (Mechanical Engineering) | 201ME3L02   | Production Technology Lab                           |
| 242   | 77                    | B. Tech. (Mechanical Engineering) | 201ME3L03   | Fluid Mechanics and Hydraulic Machines Lab          |
| 243   | 78                    | B. Tech. (Mechanical Engineering) | 201ME3T01   | Production Technology                               |
| 244   | 79                    | B. Tech. (Mechanical Engineering) | 201ME3T02   | Fluid Mechanics and Hydraulic Machines              |
| 245   | 80                    | B. Tech. (Mechanical Engineering) | 201ME3T15   | Thermodynamics                                      |
| 246   | 81                    | B. Tech. (Mechanical Engineering) | 201ME3T16   | Metallurgy and Material Science                     |
| 247   | 82                    | B. Tech. (Mechanical Engineering) | 201ME4L04   | Theory of Machines Lab                              |
| 248   | 83                    | B. Tech. (Mechanical Engineering) | 201ME4L05   | Mechanics of Solids & Metallurgy Lab                |
| 249   | 84                    | B. Tech. (Mechanical Engineering) | 201ME4L06   | Thermal Engineering Lab                             |
| 250   | 85                    | B. Tech. (Mechanical Engineering) | 201ME4T03   | Mechanics of Solids                                 |
| 251   | 86                    | B. Tech. (Mechanical Engineering) | 201ME4T04   | Theory of Machines-I                                |
| 252   | 87                    | B. Tech. (Mechanical Engineering) | 201ME4T05   | Thermal Engineering-I                               |
| 253   | 88                    | B. Tech. (Mechanical Engineering) | 201SC3L01   | CAD Lab                                             |
| 254   | 89                    | B. Tech. (Mechanical Engineering) | 201SC3L03   | Java Programming Lab                                |
| 255   | 90                    | B. Tech. (Mechanical Engineering) | 201SC3L10   | Skill oriented course -Industry Exploration Project |

| S. No | Program-wise<br>S. No | Program Name                                         | Course Code | Course Name                                          |
|-------|-----------------------|------------------------------------------------------|-------------|------------------------------------------------------|
| 256   | 91                    | B. Tech. (Mechanical Engineering)                    | 201SO3L03   | Java Programming Lab                                 |
| 257   | 92                    | B. Tech. (Mechanical Engineering)                    | 201SO3L10   | Computer Aided Manufacturing                         |
| 258   | 93                    | B. Tech. (Mechanical Engineering)                    | 201SO3L11   | Computer Aided Design using SolidWorks               |
| 259   | 1                     | B. Tech. (Electronics and Communication Engineering) | 171EC7E10   | Digital Signal Processors                            |
| 260   | 2                     | B. Tech. (Electronics and Communication Engineering) | 171EC7E11   | Embedded Systems                                     |
| 261   | 3                     | B. Tech. (Electronics and Communication Engineering) | 171EC7E12   | Cellular and Mobile Communications                   |
| 262   | 4                     | B. Tech. (Electronics and Communication Engineering) | 171EC7E13   | Analog IC Design                                     |
| 263   | 5                     | B. Tech. (Electronics and Communication Engineering) | 171EC7E14   | Cryptography and Network Security                    |
| 264   | 6                     | B. Tech. (Electronics and Communication Engineering) | 171EC7E15   | Radar Systems                                        |
| 265   | 7                     | B. Tech. (Electronics and Communication Engineering) | 171EC7L10   | Microwave Engineering and Optical Communications Lab |
| 266   | 8                     | B. Tech. (Electronics and Communication Engineering) | 171EC7L11   | Digital Signal and Image Processing Lab              |
| 267   | 9                     | B. Tech. (Electronics and Communication Engineering) | 171EC7P01   | Industry Oriented (Internship) Minor Project         |
| 268   | 10                    | B. Tech. (Electronics and Communication Engineering) | 171EC7T16   | Microwave Engineering                                |
| 269   | 11                    | B. Tech. (Electronics and Communication Engineering) | 171EC7T17   | Digital Image Processing                             |
| 270   | 12                    | B. Tech. (Electronics and Communication Engineering) | 171EC7T18   | Electronic Measurements And Instrumentation          |
| 271   | 13                    | B. Tech. (Electronics and Communication Engineering) | 171EC7T19   | Optical Communications                               |
| 272   | 14                    | B. Tech. (Electronics and Communication Engineering) | 171EC8E16   | Mixed Signal IC Design                               |
| 273   | 15                    | B. Tech. (Electronics and Communication Engineering) | 171EC8E17   | Wireless Sensors and Networks                        |
| 274   | 16                    | B. Tech. (Electronics and Communication Engineering) | 171EC8E18   | Satellite Communications                             |
| 275   | 17                    | B. Tech. (Electronics and Communication Engineering) | 171EC8O01   | Basic Concrete Technology                            |
| 276   | 18                    | B. Tech. (Electronics and Communication Engineering) | 171EC8O02   | Disaster Management                                  |
| 277   | 19                    | B. Tech. (Electronics and Communication Engineering) | 171EC8O03   | Neural Networks                                      |
| 278   | 20                    | B. Tech. (Electronics and Communication Engineering) | 171EC8O04   | Web Technologies                                     |
| 279   | 21                    | B. Tech. (Electronics and Communication Engineering) | 171EC8P02   | Major Project                                        |
| 280   | 22                    | B. Tech. (Electronics and Communication Engineering) | 191EC5E01   | Computer System Architecture                         |
| 281   | 23                    | B. Tech. (Electronics and Communication Engineering) | 191EC5E02   | Digital System Design-I                              |
| 282   | 24                    | B. Tech. (Electronics and Communication Engineering) | 191EC5E03   | Electromagnetic Interference and Compatibility       |
| 283   | 25                    | B. Tech. (Electronics and Communication Engineering) | 191EC5E04   | Python Programming                                   |
| 284   | 26                    | B. Tech. (Electronics and Communication Engineering) | 191EC5L05   | Integrated Circuits and applications Lab             |

| S. No | Program-wise<br>S. No | Program Name                                         | Course Code | Course Name                                |
|-------|-----------------------|------------------------------------------------------|-------------|--------------------------------------------|
| 285   | 27                    | B. Tech. (Electronics and Communication Engineering) | 191EC5L06   | Digital Communications Lab                 |
| 286   | 28                    | B. Tech. (Electronics and Communication Engineering) | 191EC5O01   | Signals and Systems                        |
| 287   | 29                    | B. Tech. (Electronics and Communication Engineering) | 191EC5O02   | Digital Electronics and Logic Design       |
| 288   | 30                    | B. Tech. (Electronics and Communication Engineering) | 191EC5O03   | Semi conductor devices                     |
| 289   | 31                    | B. Tech. (Electronics and Communication Engineering) | 191EC5T08   | Integrated Circuits and applications       |
| 290   | 32                    | B. Tech. (Electronics and Communication Engineering) | 191EC5T09   | Digital Communications                     |
| 291   | 33                    | B. Tech. (Electronics and Communication Engineering) | 191EC5T10   | Antennas and Wave Propagation              |
| 292   | 34                    | B. Tech. (Electronics and Communication Engineering) | 191EC5T11   | Computer Networks                          |
| 293   | 35                    | B. Tech. (Electronics and Communication Engineering) | 191EC6E05   | Digital System Design-II                   |
| 294   | 36                    | B. Tech. (Electronics and Communication Engineering) | 191EC6E06   | Embedded Systems                           |
| 295   | 37                    | B. Tech. (Electronics and Communication Engineering) | 191EC6E07   | Information Theory and Coding              |
| 296   | 38                    | B. Tech. (Electronics and Communication Engineering) | 191EC6E08   | Soft Computing Techniques                  |
| 297   | 39                    | B. Tech. (Electronics and Communication Engineering) | 191EC6E09   | Design for Testability                     |
| 298   | 40                    | B. Tech. (Electronics and Communication Engineering) | 191EC6E10   | Embedded C                                 |
| 299   | 41                    | B. Tech. (Electronics and Communication Engineering) | 191EC6E11   | Radar Systems                              |
| 300   | 42                    | B. Tech. (Electronics and Communication Engineering) | 191EC6E12   | Signal Transform Techniques                |
| 301   | 43                    | B. Tech. (Electronics and Communication Engineering) | 191EC6L07   | Internet of Things Lab                     |
| 302   | 44                    | B. Tech. (Electronics and Communication Engineering) | 191EC6L08   | VLSI Lab                                   |
| 303   | 45                    | B. Tech. (Electronics and Communication Engineering) | 191EC6O04   | Biomedical Instrumentation                 |
| 304   | 46                    | B. Tech. (Electronics and Communication Engineering) | 191EC6O05   | ECAD Tools                                 |
| 305   | 47                    | B. Tech. (Electronics and Communication Engineering) | 191EC6T12   | Internet of Things                         |
| 306   | 48                    | B. Tech. (Electronics and Communication Engineering) | 191EC6T13   | VLSI Design                                |
| 307   | 49                    | B. Tech. (Electronics and Communication Engineering) | 191EC6T14   | Digital Signal Processing                  |
| 308   | 50                    | B. Tech. (Electronics and Communication Engineering) | 19ES3O01    | Embedded System Design                     |
| 309   | 51                    | B. Tech. (Electronics and Communication Engineering) | 19ES3O02    | Digital System Design                      |
| 310   | 52                    | B. Tech. (Electronics and Communication Engineering) | 19ES3O03    | Programming Languages for Embedded Systems |
| 311   | 53                    | B. Tech. (Electronics and Communication Engineering) | 19ES3O04    | Sensors and Actuators                      |
| 312   | 54                    | B. Tech. (Electronics and Communication Engineering) | 201BS1T01   | Differential equations and Linear algebra  |
| 313   | 55                    | B. Tech. (Electronics and Communication Engineering) | 201BS2T09   | Applied Physics                            |

| S. No | Program-wise<br>S. No | Program Name                                         | Course Code | Course Name                                                                  |
|-------|-----------------------|------------------------------------------------------|-------------|------------------------------------------------------------------------------|
| 314   | 56                    | B. Tech. (Electronics and Communication Engineering) | 201EC3L01   | Electronic Devices and Circuits Lab                                          |
| 315   | 57                    | B. Tech. (Electronics and Communication Engineering) | 201EC3L02   | Signals and Systems Lab                                                      |
| 316   | 58                    | B. Tech. (Electronics and Communication Engineering) | 201EC3L03   | Digital Electronics and Logic Design Lab                                     |
| 317   | 59                    | B. Tech. (Electronics and Communication Engineering) | 201EC3T01   | Electronic Devices and Circuits                                              |
| 318   | 60                    | B. Tech. (Electronics and Communication Engineering) | 201EC3T02   | Signals and Systems                                                          |
| 319   | 61                    | B. Tech. (Electronics and Communication Engineering) | 201EC3T03   | Digital Electronics and Logic Design                                         |
| 320   | 62                    | B. Tech. (Electronics and Communication Engineering) | 201EC3T04   | Random Variables and Stochastic Processes                                    |
| 321   | 63                    | B. Tech. (Electronics and Communication Engineering) | 201EC4L04   | Electronic Circuit Analysis Lab .                                            |
| 322   | 64                    | B. Tech. (Electronics and Communication Engineering) | 201EC4L05   | Integrated Circuits and Applications Lab                                     |
| 323   | 65                    | B. Tech. (Electronics and Communication Engineering) | 201EC4L06   | Analog Communications Lab                                                    |
| 324   | 66                    | B. Tech. (Electronics and Communication Engineering) | 201EC4T05   | Electronic Circuit Analysis                                                  |
| 325   | 67                    | B. Tech. (Electronics and Communication Engineering) | 201EC4T06   | Integrated Circuits and Applications                                         |
| 326   | 68                    | B. Tech. (Electronics and Communication Engineering) | 201EC4T07   | Analog Communications                                                        |
| 327   | 69                    | B. Tech. (Electronics and Communication Engineering) | 201ES1L03   | Essential Electrical and Electronics Engineering Lab                         |
| 328   | 70                    | B. Tech. (Electronics and Communication Engineering) | 201ES2L09   | Engineering Chemistry Lab                                                    |
| 329   | 71                    | B. Tech. (Electronics and Communication Engineering) | 201ES2T08   | Programming for problem solving using C                                      |
| 330   | 72                    | B. Tech. (Electronics and Communication Engineering) | 201ES4L16   | Mechanical and Materials Science and Engineering Lab                         |
| 331   | 73                    | B. Tech. (Electronics and Communication Engineering) | 201HS4T03   | Managerial Economics and Financial Analysis                                  |
| 332   | 74                    | B. Tech. (Electronics and Communication Engineering) | 201MC1T01   | Environmental Science                                                        |
| 333   | 75                    | B. Tech. (Electronics and Communication Engineering) | 201MC2T02   | Constitution of India                                                        |
| 334   | 76                    | B. Tech. (Electronics and Communication Engineering) | 201SC4L13   | 3D Modeling using Revit                                                      |
| 335   | 77                    | B. Tech. (Electronics and Communication Engineering) | 201SC4L14   | IoT Applications of Electrical Engineering                                   |
| 336   | 78                    | B. Tech. (Electronics and Communication Engineering) | 201SC4L15   | Python Programming Lab                                                       |
| 337   | 79                    | B. Tech. (Electronics and Communication Engineering) | 201SC4L16   | PCB Designing                                                                |
| 338   | 80                    | B. Tech. (Electronics and Communication Engineering) | 201SC4L17   | Applications of Python Programming                                           |
| 339   | 81                    | B. Tech. (Electronics and Communication Engineering) | 201SC4L18   | Applications of python- pandas                                               |
| 340   | 82                    | B. Tech. (Electronics and Communication Engineering) | 201SC4L19   | Web application development using full stack frontend development module-II) |
| 341   | 83                    | B. Tech. (Electronics and Communication Engineering) | 201SC4L20   | Data Analytics for Mining using Python                                       |
| 342   | 84                    | B. Tech. (Electronics and Communication Engineering) | 201SC4L21   | Python Programming                                                           |

| S. No | Program-wise<br>S. No | Program Name                                         | Course Code | Course Name                                  |
|-------|-----------------------|------------------------------------------------------|-------------|----------------------------------------------|
| 343   | 85                    | B. Tech. (Electronics and Communication Engineering) | 201SC4L22   | Analysis/Simulation using MATLAB             |
| 344   | 86                    | B. Tech. (Electronics and Communication Engineering) | 201SC4L23   | Food Quality and Control                     |
| 345   | 87                    | B. Tech. (Electronics and Communication Engineering) | 201SO3L04   | Python Programming                           |
| 346   | 1                     | B. Tech. (Computer Science and Engineering)          | 171CS5E14   | Big Data Analytics                           |
| 347   | 2                     | B. Tech. (Computer Science and Engineering)          | 171CS7E13   | Software Project Management                  |
| 348   | 3                     | B. Tech. (Computer Science and Engineering)          | 171CS7E15   | Image Processing                             |
| 349   | 4                     | B. Tech. (Computer Science and Engineering)          | 171CS7E16   | Cyber Laws                                   |
| 350   | 5                     | B. Tech. (Computer Science and Engineering)          | 171CS7E17   | Middleware Technologies                      |
| 351   | 6                     | B. Tech. (Computer Science and Engineering)          | 171CS7E18   | Artificial Intelligence and Machine Learning |
| 352   | 7                     | B. Tech. (Computer Science and Engineering)          | 171CS7E19   | Information Retrieval Systems                |
| 353   | 8                     | B. Tech. (Computer Science and Engineering)          | 171CS7E20   | Mobile Computing                             |
| 354   | 9                     | B. Tech. (Computer Science and Engineering)          | 171CS7L12   | UML and Design Patterns Lab                  |
| 355   | 10                    | B. Tech. (Computer Science and Engineering)          | 171CS7L13   | Big Data Analytics Lab                       |
| 356   | 11                    | B. Tech. (Computer Science and Engineering)          | 171CS7P01   | Industry Oriented (Internship) Minor Project |
| 357   | 12                    | B. Tech. (Computer Science and Engineering)          | 171CS7T18   | Cryptography and Network Security            |
| 358   | 13                    | B. Tech. (Computer Science and Engineering)          | 171CS7T19   | UML and Design Patterns                      |
| 359   | 14                    | B. Tech. (Computer Science and Engineering)          | 171CS7T20   | Cloud Computing                              |
| 360   | 15                    | B. Tech. (Computer Science and Engineering)          | 171CS8E21   | Agile Methodologies                          |
| 361   | 16                    | B. Tech. (Computer Science and Engineering)          | 171CS8E22   | Cyber Security                               |
| 362   | 17                    | B. Tech. (Computer Science and Engineering)          | 171CS8E23   | Distributed Databases                        |
| 363   | 18                    | B. Tech. (Computer Science and Engineering)          | 171CS8E24   | Distributed Systems                          |
| 364   | 19                    | B. Tech. (Computer Science and Engineering)          | 171CS8O01   | Microprocessor and Multi Core Systems        |
| 365   | 20                    | B. Tech. (Computer Science and Engineering)          | 171CS8O02   | Embedded Systems                             |
| 366   | 21                    | B. Tech. (Computer Science and Engineering)          | 171CS8O03   | Soft Computing                               |
| 367   | 22                    | B. Tech. (Computer Science and Engineering)          | 171CS8O04   | Operations Research                          |
| 368   | 23                    | B. Tech. (Computer Science and Engineering)          | 171CS8O05   | Optical Communications                       |
| 369   | 24                    | B. Tech. (Computer Science and Engineering)          | 171CS8O06   | Renewable Energy sources                     |
| 370   | 25                    | B. Tech. (Computer Science and Engineering)          | 171CS8O07   | Nano Technology and its Applications         |

| S. No | Program-wise<br>S. No | Program Name                                | Course Code | Course Name                                             |
|-------|-----------------------|---------------------------------------------|-------------|---------------------------------------------------------|
| 371   | 26                    | B. Tech. (Computer Science and Engineering) | 171CS8P02   | Project Work                                            |
| 372   | 27                    | B. Tech. (Computer Science and Engineering) | 191CS5E01   | Advanced Computer Architecture                          |
| 373   | 28                    | B. Tech. (Computer Science and Engineering) | 191CS5E02   | Artificial Intelligence                                 |
| 374   | 29                    | B. Tech. (Computer Science and Engineering) | 191CS5E03   | Computer Graphics                                       |
| 375   | 30                    | B. Tech. (Computer Science and Engineering) | 191CS5E04   | Functional and Logic Programming                        |
| 376   | 31                    | B. Tech. (Computer Science and Engineering) | 191CS5E05   | Software Requirement and Estimation                     |
| 377   | 32                    | B. Tech. (Computer Science and Engineering) | 191CS5L04   | Operating Systems and Computer Networks Lab             |
| 378   | 33                    | B. Tech. (Computer Science and Engineering) | 191CS5L05   | Database Management Systems Lab                         |
| 379   | 34                    | B. Tech. (Computer Science and Engineering) | 191CS5O01   | Data Structures                                         |
| 380   | 35                    | B. Tech. (Computer Science and Engineering) | 191CS5O02   | Object Oriented Programming through C++                 |
| 381   | 36                    | B. Tech. (Computer Science and Engineering) | 191CS5O03   | Java Programming                                        |
| 382   | 37                    | B. Tech. (Computer Science and Engineering) | 191CS5O04   | R Programming                                           |
| 383   | 38                    | B. Tech. (Computer Science and Engineering) | 191CS5T08   | Compiler Design                                         |
| 384   | 39                    | B. Tech. (Computer Science and Engineering) | 191CS5T09   | Computer Networks                                       |
| 385   | 40                    | B. Tech. (Computer Science and Engineering) | 191CS5T10   | Database Management Systems                             |
| 386   | 41                    | B. Tech. (Computer Science and Engineering) | 191CS5T11   | Operating Systems                                       |
| 387   | 42                    | B. Tech. (Computer Science and Engineering) | 191CS6E06   | Advance Operating Systems                               |
| 388   | 43                    | B. Tech. (Computer Science and Engineering) | 191CS6E07   | Image Processing                                        |
| 389   | 44                    | B. Tech. (Computer Science and Engineering) | 191CS6E08   | Machine Learning                                        |
| 390   | 45                    | B. Tech. (Computer Science and Engineering) | 191CS6E09   | Scripting languages                                     |
| 391   | 46                    | B. Tech. (Computer Science and Engineering) | 191CS6E10   | Software Testing Methodologies                          |
| 392   | 47                    | B. Tech. (Computer Science and Engineering) | 191CS6E11   | C# .Net                                                 |
| 393   | 48                    | B. Tech. (Computer Science and Engineering) | 191CS6E12   | Cloud Computing                                         |
| 394   | 49                    | B. Tech. (Computer Science and Engineering) | 191CS6E13   | Distributed Systems                                     |
| 395   | 50                    | B. Tech. (Computer Science and Engineering) | 191CS6E14   | Natural Language Processing                             |
| 396   | 51                    | B. Tech. (Computer Science and Engineering) | 191CS6E15   | Software Quality Assurance                              |
| 397   | 52                    | B. Tech. (Computer Science and Engineering) | 191CS6L06   | Data Mining and Object Oriented Analysis and Design Lab |
| 398   | 53                    | B. Tech. (Computer Science and Engineering) | 191CS6L07   | Web Technologies Lab                                    |
| 399   | 54                    | B. Tech. (Computer Science and Engineering) | 191CS6O05   | Python Programming                                      |

| S. No | Program-wise<br>S. No | Program Name                                | Course Code | Course Name                                                |
|-------|-----------------------|---------------------------------------------|-------------|------------------------------------------------------------|
| 400   | 55                    | B. Tech. (Computer Science and Engineering) | 191CS6O06   | Operating Systems                                          |
| 401   | 56                    | B. Tech. (Computer Science and Engineering) | 191CS6O07   | Web Technologies                                           |
| 402   | 57                    | B. Tech. (Computer Science and Engineering) | 191CS6O08   | Cyber Security                                             |
| 403   | 58                    | B. Tech. (Computer Science and Engineering) | 191CS6O09   | AR / VR                                                    |
| 404   | 59                    | B. Tech. (Computer Science and Engineering) | 191CS6T12   | Data Ware Housing and Data Mining                          |
| 405   | 60                    | B. Tech. (Computer Science and Engineering) | 191CS6T13   | Object Oriented Analysis and Design                        |
| 406   | 61                    | B. Tech. (Computer Science and Engineering) | 191CS6T14   | Web Technologies                                           |
| 407   | 62                    | B. Tech. (Computer Science and Engineering) | 19CS3O01    | Python Programming (CSE)                                   |
| 408   | 63                    | B. Tech. (Computer Science and Engineering) | 19CS3O02    | Principles of Cyber Security                               |
| 409   | 64                    | B. Tech. (Computer Science and Engineering) | 19CS3O03    | Internet of Things                                         |
| 410   | 65                    | B. Tech. (Computer Science and Engineering) | 19CS3O04    | Machine Learning                                           |
| 411   | 66                    | B. Tech. (Computer Science and Engineering) | 19CS3O05    | Artificial Intelligence                                    |
| 412   | 67                    | B. Tech. (Computer Science and Engineering) | 19CS3O06    | Deep Learning                                              |
| 413   | 68                    | B. Tech. (Computer Science and Engineering) | 201BS1T02   | Engineering Physics                                        |
| 414   | 69                    | B. Tech. (Computer Science and Engineering) | 201BS3T10   | Numerical Methods and Vector Calculus                      |
| 415   | 70                    | B. Tech. (Computer Science and Engineering) | 201ES1L04   | Soil Science and Agronomy Field Lab                        |
| 416   | 71                    | B. Tech. (Computer Science and Engineering) | 201ES2L10   | Programming for problem solving using C Lab                |
| 417   | 72                    | B. Tech. (Computer Science and Engineering) | 201ES2T09   | Programming for Problem Solving Using C                    |
| 418   | 73                    | B. Tech. (Computer Science and Engineering) | 201ES4L17   | Soil Mechanics Lab                                         |
| 419   | 74                    | B. Tech. (Computer Science and Engineering) | 201HS4T04   | Industrial Engineering and Management                      |
| 420   | 75                    | B. Tech. (Computer Science and Engineering) | 201MC2L01   | Professional communications skills Lab                     |
| 421   | 76                    | B. Tech. (Computer Science and Engineering) | 201MC3T03   | Computer Organization and Operating Systems                |
| 422   | 77                    | B. Tech. (Computer Science and Engineering) | 201MC4T04   | Data Structures                                            |
| 423   | 78                    | B. Tech. (Computer Science and Engineering) | 201SO3L05   | Applications of python-numpy                               |
| 424   | 1                     | M. Tech. (Petroleum Engineering)            | 192PE1E01   | Advanced Numerical                                         |
| 425   | 2                     | M. Tech. (Petroleum Engineering)            | 192PE1E02   | CBMand Shale Gas Engineering                               |
| 426   | 3                     | M. Tech. (Petroleum Engineering)            | 192PE1E03   | Transportation of Oil and Gas                              |
| 427   | 4                     | M. Tech. (Petroleum Engineering)            | 192PE1E04   | Advanced Well Logging Techniques and Well Testing Analysis |
| 428   | 5                     | M. Tech. (Petroleum Engineering)            | 192PE1L01   | Advanced Numerical Methods and                             |

| S. No | Program-wise<br>S. No | Program Name                      | Course Code | Course Name                                                 |
|-------|-----------------------|-----------------------------------|-------------|-------------------------------------------------------------|
| 429   | 6                     | M. Tech. (Petroleum Engineering)  | 192PE1L02   | Drilling Simulation Laboratory                              |
| 430   | 7                     | M. Tech. (Petroleum Engineering)  | 192PE1T01   | Offshore Drilling.                                          |
| 431   | 8                     | M. Tech. (Petroleum Engineering)  | 192PE1T02   | Fundamentals of Petroleum Geology and Reservoir Engineering |
| 432   | 9                     | M. Tech. (Petroleum Engineering)  | 192PE1T03   | Reservoir Stimulation (PE stream)                           |
| 433   | 10                    | M. Tech. (Petroleum Engineering)  | 192PE1T04   | Petroleum Well Drilling and Production Engineering          |
| 434   | 11                    | M. Tech. (Petroleum Engineering)  | 192PE2E05   | Advanced EOR Techniques                                     |
| 435   | 12                    | M. Tech. (Petroleum Engineering)  | 192PE2E06   | Advanced Well Completions                                   |
| 436   | 13                    | M. Tech. (Petroleum Engineering)  | 192PE2E07   | Flow Assurance                                              |
| 437   | 14                    | M. Tech. (Petroleum Engineering)  | 192PE2E08   | Advanced Horizontal Well Technology                         |
| 438   | 15                    | M. Tech. (Petroleum Engineering)  | 192PE2L03   | Reservoir Simulation Laboratory                             |
| 439   | 16                    | M. Tech. (Petroleum Engineering)  | 192PE2L04   | Flow Assurance Laboratory                                   |
| 440   | 17                    | M. Tech. (Petroleum Engineering)  | 192PE2P01   | Mini Project with Seminar                                   |
| 441   | 18                    | M. Tech. (Petroleum Engineering)  | 192PE2T05   | Artificial Lift Techniques                                  |
| 442   | 19                    | M. Tech. (Petroleum Engineering)  | 192PE2T06   | Reservoir Modeling and Simulation                           |
| 443   | 20                    | M. Tech. (Petroleum Engineering)  | 192PE3O01   | Introduction to Petroleum Engineering                       |
| 444   | 21                    | M. Tech. (Petroleum Engineering)  | 192PE3O02   | Process Intensification                                     |
| 445   | 22                    | M. Tech. (Petroleum Engineering)  | 192PE3O03   | Fundamentals of Liquefied                                   |
| 446   | 23                    | M. Tech. (Petroleum Engineering)  | 192PE3O04   | Subsea Engineering                                          |
| 447   | 24                    | M. Tech. (Petroleum Engineering)  | 192PE3O05   | Geology                                                     |
| 448   | 25                    | M. Tech. (Petroleum Engineering)  | 192PE3O06   | HSE in Petroleum Industry                                   |
| 449   | 26                    | M. Tech. (Petroleum Engineering)  | 192PE3P02   | Dissertation-I/ Industrial Project                          |
| 450   | 27                    | M. Tech. (Petroleum Engineering)  | 192PE4P03   | Dissertation-II                                             |
| 451   | 28                    | M. Tech. (Petroleum Engineering)  | 19PE3O01    | Introduction to Petroleum Engineering                       |
| 452   | 29                    | M. Tech. (Petroleum Engineering)  | 19PE3O02    | Process Intensification                                     |
| 453   | 30                    | M. Tech. (Petroleum Engineering)  | 19PE3O03    | Fundamentals of Liquefied Natural Gas                       |
| 454   | 31                    | M. Tech. (Petroleum Engineering)  | 19PE3O04    | Subsea Engineering                                          |
| 455   | 32                    | M. Tech. (Petroleum Engineering)  | 19PE3O05    | Geology                                                     |
| 456   | 33                    | M. Tech. (Petroleum Engineering)  | 19PE3O06    | HSE in Petroleum Industry                                   |
| 457   | 1                     | B. Tech. (Information Technology) | 171IT7E06   | Machine Learning                                            |

| S. No | Program-wise<br>S. No | Program Name                      | Course Code | Course Name                                                                 |
|-------|-----------------------|-----------------------------------|-------------|-----------------------------------------------------------------------------|
| 458   | 2                     | B. Tech. (Information Technology) | 17IIT7E07   | Human Computer Interaction                                                  |
| 459   | 3                     | B. Tech. (Information Technology) | 17IIT7E08   | Distributed Systems                                                         |
| 460   | 4                     | B. Tech. (Information Technology) | 17IIT7E09   | Decision Support System                                                     |
| 461   | 5                     | B. Tech. (Information Technology) | 17IIT7L04   | Mobile Computing Lab                                                        |
| 462   | 6                     | B. Tech. (Information Technology) | 17IIT7P01   | Industry Oriented (Internship) Minor Project                                |
| 463   | 7                     | B. Tech. (Information Technology) | 17IIT7T05   | Big Data Analytics                                                          |
| 464   | 8                     | B. Tech. (Information Technology) | 17IIT7T06   | Mobile Computing                                                            |
| 465   | 9                     | B. Tech. (Information Technology) | 17IIT8E10   | Pattern Recognition                                                         |
| 466   | 10                    | B. Tech. (Information Technology) | 17IIT8O01   | Management Information System                                               |
| 467   | 11                    | B. Tech. (Information Technology) | 17IIT8O02   | Computer Vision                                                             |
| 468   | 12                    | B. Tech. (Information Technology) | 17IIT8P02   | Major Project                                                               |
| 469   | 13                    | B. Tech. (Information Technology) | 19IIT5O01   | Data Base Management Systems                                                |
| 470   | 14                    | B. Tech. (Information Technology) | 19IIT5O02   | Computer Graphics                                                           |
| 471   | 15                    | B. Tech. (Information Technology) | 19IIT6O03   | Computer Organization                                                       |
| 472   | 16                    | B. Tech. (Information Technology) | 19IIT6O04   | AI Tools and Techniques                                                     |
| 473   | 17                    | B. Tech. (Information Technology) | 19IIT6O05   | Robotic Process Automation                                                  |
| 474   | 18                    | B. Tech. (Information Technology) | 19IMC5A07   | Survey camp                                                                 |
| 475   | 19                    | B. Tech. (Information Technology) | 19IMC5A08   | Intellectual Property Rights and Patents                                    |
| 476   | 20                    | B. Tech. (Information Technology) | 19IMC6A09   | Professional Ethics and Human Values                                        |
| 477   | 21                    | B. Tech. (Information Technology) | 201BS1T03   | Applied Physics                                                             |
| 478   | 22                    | B. Tech. (Information Technology) | 201BS3T11   | Numerical Methods and Complex variables                                     |
| 479   | 23                    | B. Tech. (Information Technology) | 201ES1T02   | Building Materials and Construction                                         |
| 480   | 24                    | B. Tech. (Information Technology) | 201ES2L11   | Programming for Problem Solving Using C Lab                                 |
| 481   | 25                    | B. Tech. (Information Technology) | 201ES2T10   | Basic Electrical Engineering                                                |
| 482   | 26                    | B. Tech. (Information Technology) | 201ES4T18   | Python Programming                                                          |
| 483   | 27                    | B. Tech. (Information Technology) | 201HS4T06   | Management and Organizational Behavior                                      |
| 484   | 28                    | B. Tech. (Information Technology) | 201SO3L06   | web application development using full stack frontend development-module –I |
| 485   | 1                     | M. Tech. (Thermal Engineering)    | 192TE1E01   | Advanced IC Engines, Electric and Hybrid Vehicles                           |

| S. No | Program-wise<br>S. No | Program Name                   | Course Code | Course Name                               |
|-------|-----------------------|--------------------------------|-------------|-------------------------------------------|
| 486   | 2                     | M. Tech. (Thermal Engineering) | 192TE1E02   | Gas Dynamics                              |
| 487   | 3                     | M. Tech. (Thermal Engineering) | 192TE1E03   | Cryogenic Engineering                     |
| 488   | 4                     | M. Tech. (Thermal Engineering) | 192TE1E04   | Advanced Thermodynamics                   |
| 489   | 5                     | M. Tech. (Thermal Engineering) | 192TE1E05   | Gas Turbines                              |
| 490   | 6                     | M. Tech. (Thermal Engineering) | 192TE1E06   | Alternative Fuel Technologies             |
| 491   | 7                     | M. Tech. (Thermal Engineering) | 192TE1E07   | Energy Conservation and Management        |
| 492   | 8                     | M. Tech. (Thermal Engineering) | 192TE1E08   | Theory and Technology of                  |
| 493   | 9                     | M. Tech. (Thermal Engineering) | 192TE1L01   | Computational Fluid Dynamics Lab-I        |
| 494   | 10                    | M. Tech. (Thermal Engineering) | 192TE1T01   | Advanced Fluid Mechanics                  |
| 495   | 11                    | M. Tech. (Thermal Engineering) | 192TE1T02   | Computational Fluid Dynamics              |
| 496   | 12                    | M. Tech. (Thermal Engineering) | 192TE2E09   | Equipment Design for Thermal Systems      |
| 497   | 13                    | M. Tech. (Thermal Engineering) | 192TE2E10   | Solar Energy Technologies                 |
| 498   | 14                    | M. Tech. (Thermal Engineering) | 192TE2E11   | Advanced Power Plant Engineering          |
| 499   | 15                    | M. Tech. (Thermal Engineering) | 192TE2E12   | Combustion, Emissions and Environment     |
| 500   | 16                    | M. Tech. (Thermal Engineering) | 192TE2E13   | Jet propulsion and Rocket Engineering     |
| 501   | 17                    | M. Tech. (Thermal Engineering) | 192TE2E14   | Automotive Engineering                    |
| 502   | 18                    | M. Tech. (Thermal Engineering) | 192TE2E15   | Modeling and I.C.Engines                  |
| 503   | 19                    | M. Tech. (Thermal Engineering) | 192TE2E16   | Renewable Energy Technologies             |
| 504   | 20                    | M. Tech. (Thermal Engineering) | 192TE2L03   | Computational Fluid Dynamics Lab-II       |
| 505   | 21                    | M. Tech. (Thermal Engineering) | 192TE2L04   | Thermal Engineering Lab -II               |
| 506   | 22                    | M. Tech. (Thermal Engineering) | 192TE2P01   | Mini Project with Seminar                 |
| 507   | 23                    | M. Tech. (Thermal Engineering) | 192TE2T03   | Advanced Heat Transfer                    |
| 508   | 24                    | M. Tech. (Thermal Engineering) | 192TE2T04   | Thermal Measurements and Process Controls |
| 509   | 25                    | M. Tech. (Thermal Engineering) | 192TE3E17   | Optimization Techniques and Applications  |
| 510   | 26                    | M. Tech. (Thermal Engineering) | 192TE3E18   | Design and Analysis of Experiments        |
| 511   | 27                    | M. Tech. (Thermal Engineering) | 192TE3E19   | Convective Heat Transfer                  |
| 512   | 28                    | M. Tech. (Thermal Engineering) | 192TE3E20   | Waste to Energy                           |
| 513   | 29                    | M. Tech. (Thermal Engineering) | 192TE3O01   | Energy Systems                            |
| 514   | 30                    | M. Tech. (Thermal Engineering) | 192TE3O02   | Fuels and Combustion                      |

| S. No | Program-wise<br>S. No | Program Name                   | Course Code | Course Name                                  |
|-------|-----------------------|--------------------------------|-------------|----------------------------------------------|
| 515   | 31                    | M. Tech. (Thermal Engineering) | 192TE3O03   | Green Engineering Technology                 |
| 516   | 32                    | M. Tech. (Thermal Engineering) | 192TE3O04   | IC Engines                                   |
| 517   | 33                    | M. Tech. (Thermal Engineering) | 192TE3O05   | Automotive Technology                        |
| 518   | 34                    | M. Tech. (Thermal Engineering) | 192TE3P02   | Dissertation I                               |
| 519   | 35                    | M. Tech. (Thermal Engineering) | 192TE4P03   | Dissertation II                              |
| 520   | 36                    | M. Tech. (Thermal Engineering) | 19TE1L02    | Physical Design Automation                   |
| 521   | 1                     | B. Tech. (Mining Engineering)  | 171MI7E10   | Planning of UGMM Project                     |
| 522   | 2                     | B. Tech. (Mining Engineering)  | 171MI7E11   | Planning of UGCM Project                     |
| 523   | 3                     | B. Tech. (Mining Engineering)  | 171MI7E12   | Planning of Surface Mining Project           |
| 524   | 4                     | B. Tech. (Mining Engineering)  | 171MI7E13   | Mine mechanization                           |
| 525   | 5                     | B. Tech. (Mining Engineering)  | 171MI7E14   | Advance Underground Coal Mining Technology   |
| 526   | 6                     | B. Tech. (Mining Engineering)  | 171MI7E15   | Mine Blasting operation                      |
| 527   | 7                     | B. Tech. (Mining Engineering)  | 171MI7L07   | Mine Planning and Design Lab                 |
| 528   | 8                     | B. Tech. (Mining Engineering)  | 171MI7P01   | Industry Oriented (Internship) Minor Project |
| 529   | 9                     | B. Tech. (Mining Engineering)  | 171MI7T17   | Mine Economics                               |
| 530   | 10                    | B. Tech. (Mining Engineering)  | 171MI7T18   | Mine Health and Safety Engineering           |
| 531   | 11                    | B. Tech. (Mining Engineering)  | 171MI7T19   | Mine Legislation and General Safety          |
| 532   | 12                    | B. Tech. (Mining Engineering)  | 171MI7T20   | Mine Management                              |
| 533   | 13                    | B. Tech. (Mining Engineering)  | 171MI8E16   | Mine Systems Engineering                     |
| 534   | 14                    | B. Tech. (Mining Engineering)  | 171MI8E17   | Advance Surface Mining Technology            |
| 535   | 15                    | B. Tech. (Mining Engineering)  | 171MI8E18   | Advanced Underground Metal Mining Technology |
| 536   | 16                    | B. Tech. (Mining Engineering)  | 171MI8O01   | Environmental Impact Assessment              |
| 537   | 17                    | B. Tech. (Mining Engineering)  | 171MI8O02   | Mine Closure and Reclamation                 |
| 538   | 18                    | B. Tech. (Mining Engineering)  | 171MI8O03   | Fundamentals of Communication                |
| 539   | 19                    | B. Tech. (Mining Engineering)  | 171MI8O04   | Remote Sensing and GIS                       |
| 540   | 20                    | B. Tech. (Mining Engineering)  | 171MI8O05   | Quantitative Decision Making                 |
| 541   | 21                    | B. Tech. (Mining Engineering)  | 171MI8P02   | Major Project                                |
| 542   | 22                    | B. Tech. (Mining Engineering)  | 191MI5E01   | Drilling and Blasting                        |

| S. No | Program-wise<br>S. No | Program Name                  | Course Code | Course Name                                      |
|-------|-----------------------|-------------------------------|-------------|--------------------------------------------------|
| 543   | 23                    | B. Tech. (Mining Engineering) | 191MI5E02   | Environmental Impact Assessment                  |
| 544   | 24                    | B. Tech. (Mining Engineering) | 191MI5E03   | Planning of Underground Coal Mining Project      |
| 545   | 25                    | B. Tech. (Mining Engineering) | 191MI5E04   | Sustainable Mining                               |
| 546   | 26                    | B. Tech. (Mining Engineering) | 191MI5L04   | Mine Environment and Ventilation Engineering Lab |
| 547   | 27                    | B. Tech. (Mining Engineering) | 191MI5O01   | Overview of Mining                               |
| 548   | 28                    | B. Tech. (Mining Engineering) | 191MI5T09   | Mine Systems Engineering                         |
| 549   | 29                    | B. Tech. (Mining Engineering) | 191MI5T10   | Underground Metal Mining Technology              |
| 550   | 30                    | B. Tech. (Mining Engineering) | 191MI5T11   | Mine Environment and Ventilation Engineering     |
| 551   | 31                    | B. Tech. (Mining Engineering) | 191MI5T12   | Mine Machinery                                   |
| 552   | 32                    | B. Tech. (Mining Engineering) | 191MI6E05   | Green Mining                                     |
| 553   | 33                    | B. Tech. (Mining Engineering) | 191MI6E06   | Mine Health and Safety Engineering               |
| 554   | 34                    | B. Tech. (Mining Engineering) | 191MI6E07   | Planning of Underground Metal Mining Project     |
| 555   | 35                    | B. Tech. (Mining Engineering) | 191MI6E08   | Rock Fragmentation Engineering                   |
| 556   | 36                    | B. Tech. (Mining Engineering) | 191MI6E09   | Deep Sea Mining                                  |
| 557   | 37                    | B. Tech. (Mining Engineering) | 191MI6E10   | Environmental Pollution and Control              |
| 558   | 38                    | B. Tech. (Mining Engineering) | 191MI6E11   | Planning of Surface Mining Project               |
| 559   | 39                    | B. Tech. (Mining Engineering) | 191MI6E12   | Rock Excavation Engineering                      |
| 560   | 40                    | B. Tech. (Mining Engineering) | 191MI6L05   | Mine Planning and Design Lab                     |
| 561   | 41                    | B. Tech. (Mining Engineering) | 191MI6L06   | Mineral Processing Lab                           |
| 562   | 42                    | B. Tech. (Mining Engineering) | 191MI6O02   | Industrial Safety Practices                      |
| 563   | 43                    | B. Tech. (Mining Engineering) | 191MI6O03   | Electrical Equipment's in Mines                  |
| 564   | 44                    | B. Tech. (Mining Engineering) | 191MI6T13   | Mineral Processing Technology                    |
| 565   | 45                    | B. Tech. (Mining Engineering) | 191MI6T14   | Mine Hazards and Rescue                          |
| 566   | 46                    | B. Tech. (Mining Engineering) | 191MI6T15   | Environmental Management in Mines                |
| 567   | 47                    | B. Tech. (Mining Engineering) | 191PR5P01   | Socially Relevant Project                        |
| 568   | 48                    | B. Tech. (Mining Engineering) | 201BS2L05   | Engineering Chemistry Lab                        |
| 569   | 49                    | B. Tech. (Mining Engineering) | 201BS3T14   | Numerical Methods and Integral Transforms        |
| 570   | 50                    | B. Tech. (Mining Engineering) | 201BS4T17   | Complex Variables and Statistical Methods        |
| 571   | 51                    | B. Tech. (Mining Engineering) | 201ES1T05   | Engineering Graphics                             |

| S. No | Program-wise S. No | Program Name                    | Course Code | Course Name                                             |
|-------|--------------------|---------------------------------|-------------|---------------------------------------------------------|
| 572   | 52                 | B. Tech. (Mining Engineering)   | 201ES2L14   | Python Programming Lab                                  |
| 573   | 53                 | B. Tech. (Mining Engineering)   | 201ES2T14   | Network Analysis                                        |
| 574   | 54                 | B. Tech. (Mining Engineering)   | 201ES4T21   | Soil Mechanics                                          |
| 575   | 55                 | B. Tech. (Mining Engineering)   | 201MI3L01   | Geology Lab                                             |
| 576   | 56                 | B. Tech. (Mining Engineering)   | 201MI3L02   | Basic Mechanical Engineering Lab                        |
| 577   | 57                 | B. Tech. (Mining Engineering)   | 201MI3L03   | Mine Surveying Lab -I                                   |
| 578   | 58                 | B. Tech. (Mining Engineering)   | 201MI3T01   | Mining Geology                                          |
| 579   | 59                 | B. Tech. (Mining Engineering)   | 201MI3T02   | Mine Surveying                                          |
| 580   | 60                 | B. Tech. (Mining Engineering)   | 201MI3T03   | Development of Mineral Deposits                         |
| 581   | 61                 | B. Tech. (Mining Engineering)   | 201MI4L04   | Rock Mechanics Lab                                      |
| 582   | 62                 | B. Tech. (Mining Engineering)   | 201MI4L05   | Mine Surveying Lab -II                                  |
| 583   | 63                 | B. Tech. (Mining Engineering)   | 201MI4T04   | Fundamentals of Rock Mechanics                          |
| 584   | 64                 | B. Tech. (Mining Engineering)   | 201MI4T05   | Surface Mining                                          |
| 585   | 65                 | B. Tech. (Mining Engineering)   | 201MI4T06   | Underground Coal Mining Technology                      |
| 586   | 1                  | B. Tech. (Petroleum Technology) | 171PT7E10   | Coal Bed Methane                                        |
| 587   | 2                  | B. Tech. (Petroleum Technology) | 171PT7E11   | Offshore Engineering                                    |
| 588   | 3                  | B. Tech. (Petroleum Technology) | 171PT7E12   | Petroleum Corrosion Technology                          |
| 589   | 4                  | B. Tech. (Petroleum Technology) | 171PT7E13   | Shale Gas Reservoir Engineering                         |
| 590   | 5                  | B. Tech. (Petroleum Technology) | 171PT7E14   | Subsea Engineering                                      |
| 591   | 6                  | B. Tech. (Petroleum Technology) | 171PT7E15   | Reservoir Modeling and Simulation                       |
| 592   | 7                  | B. Tech. (Petroleum Technology) | 171PT7L07   | Petroleum Equipment Design and Simulation Lab           |
| 593   | 8                  | B. Tech. (Petroleum Technology) | 171PT7L08   | Petroleum Reservoir Engineering Lab                     |
| 594   | 9                  | B. Tech. (Petroleum Technology) | 171PT7P01   | Industry Oriented (Internship) Minor Project            |
| 595   | 10                 | B. Tech. (Petroleum Technology) | 171PT7T15   | Integrated Asset Management and Petroleum Economics     |
| 596   | 11                 | B. Tech. (Petroleum Technology) | 171PT7T16   | Petroleum Reservoir Engineering - II                    |
| 597   | 12                 | B. Tech. (Petroleum Technology) | 171PT7T17   | IOR and EOR Techniques                                  |
| 598   | 13                 | B. Tech. (Petroleum Technology) | 171PT7T18   | Oil and Gas Processing Plant Design                     |
| 599   | 14                 | B. Tech. (Petroleum Technology) | 171PT8E16   | HSE and FE in Petroleum Industry                        |
| 600   | 15                 | B. Tech. (Petroleum Technology) | 171PT8E17   | Reliability and Risk Management in Petroleum Operations |

| S. No | Program-wise<br>S. No | Program Name                    | Course Code | Course Name                                             |
|-------|-----------------------|---------------------------------|-------------|---------------------------------------------------------|
| 601   | 16                    | B. Tech. (Petroleum Technology) | 171PT8E18   | Deep Sea Production Systems                             |
| 602   | 17                    | B. Tech. (Petroleum Technology) | 171PT8O01   | Green Technologies                                      |
| 603   | 18                    | B. Tech. (Petroleum Technology) | 171PT8O02   | Non-Conventional Sources of Energy                      |
| 604   | 19                    | B. Tech. (Petroleum Technology) | 171PT8O03   | Alternative Energy Sources for Automobiles              |
| 605   | 20                    | B. Tech. (Petroleum Technology) | 171PT8O04   | Waste Water Treatment                                   |
| 606   | 21                    | B. Tech. (Petroleum Technology) | 171PT8O05   | Computational Fluid Dynamics                            |
| 607   | 22                    | B. Tech. (Petroleum Technology) | 171PT8O06   | Process Intensification in Petroleum Industry           |
| 608   | 23                    | B. Tech. (Petroleum Technology) | 171PT8P02   | Major Project                                           |
| 609   | 24                    | B. Tech. (Petroleum Technology) | 191PT5E01   | Natural Gas Engineering and Processing                  |
| 610   | 25                    | B. Tech. (Petroleum Technology) | 191PT5E02   | Pipeline Engineering                                    |
| 611   | 26                    | B. Tech. (Petroleum Technology) | 191PT5E03   | Well Engineering and Design                             |
| 612   | 27                    | B. Tech. (Petroleum Technology) | 191PT5L04   | Drilling Fluids Lab                                     |
| 613   | 28                    | B. Tech. (Petroleum Technology) | 191PT5L05   | Instrumentation, Process Dynamics and Control Lab       |
| 614   | 29                    | B. Tech. (Petroleum Technology) | 191PT5O01   | Process Intensification in Petroleum Industry           |
| 615   | 30                    | B. Tech. (Petroleum Technology) | 191PT5O02   | Fundamentals of Petroleum Industry                      |
| 616   | 31                    | B. Tech. (Petroleum Technology) | 191PT5T08   | Instrumentation and Process Control                     |
| 617   | 32                    | B. Tech. (Petroleum Technology) | 191PT5T09   | Well Logging and Mud Logging                            |
| 618   | 33                    | B. Tech. (Petroleum Technology) | 191PT5T10   | Drilling Technology                                     |
| 619   | 34                    | B. Tech. (Petroleum Technology) | 191PT5T11   | Thermodynamics for Petroleum Engineers                  |
| 620   | 35                    | B. Tech. (Petroleum Technology) | 191PT6E04   | Fundamentals of Liquefied Natural gas                   |
| 621   | 36                    | B. Tech. (Petroleum Technology) | 191PT6E05   | Operational and Maintenance of Pipelines                |
| 622   | 37                    | B. Tech. (Petroleum Technology) | 191PT6E06   | Well Completions, Testing and Services                  |
| 623   | 38                    | B. Tech. (Petroleum Technology) | 191PT6E07   | Advanced Separation Techniques                          |
| 624   | 39                    | B. Tech. (Petroleum Technology) | 191PT6E08   | Storage and Transportation of Crude oil and Natural gas |
| 625   | 40                    | B. Tech. (Petroleum Technology) | 191PT6E09   | Unconventional Hydrocarbon Resources                    |
| 626   | 41                    | B. Tech. (Petroleum Technology) | 191PT6L06   | IOT and its Applications                                |
| 627   | 42                    | B. Tech. (Petroleum Technology) | 191PT6L07   | Artificial Intelligence                                 |
| 628   | 43                    | B. Tech. (Petroleum Technology) | 191PT6O03   | English for research paper writing                      |
| 629   | 44                    | B. Tech. (Petroleum Technology) | 191PT6O04   | Soft skills                                             |

| S. No | Program-wise<br>S. No | Program Name                    | Course Code | Course Name                                                            |
|-------|-----------------------|---------------------------------|-------------|------------------------------------------------------------------------|
| 630   | 45                    | B. Tech. (Petroleum Technology) | 191PT6T12   | Soft skills                                                            |
| 631   | 46                    | B. Tech. (Petroleum Technology) | 191PT6T13   | Petroleum Production Engineering                                       |
| 632   | 47                    | B. Tech. (Petroleum Technology) | 191PT6T14   | Petroleum Reservoir Engineering-I                                      |
| 633   | 48                    | B. Tech. (Petroleum Technology) | 191PT7E07   | Advanced Separation Techniques                                         |
| 634   | 49                    | B. Tech. (Petroleum Technology) | 191PT7E08   | Storage and Transportation of Crude oil and Natural gas                |
| 635   | 50                    | B. Tech. (Petroleum Technology) | 191PT7E09   | Unconventional Hydrocarbon Resources                                   |
| 636   | 51                    | B. Tech. (Petroleum Technology) | 201BS1T04   | Engineering Chemistry                                                  |
| 637   | 52                    | B. Tech. (Petroleum Technology) | 201BS3T12   | Integral transforms and applications of Partial Differential Equations |
| 638   | 53                    | B. Tech. (Petroleum Technology) | 201ES1T03   | Essential Electrical and Electronics Engineering                       |
| 639   | 54                    | B. Tech. (Petroleum Technology) | 201ES2L12   | Computer Aided Drafting Lab                                            |
| 640   | 55                    | B. Tech. (Petroleum Technology) | 201ES2T11   | Computer Organization                                                  |
| 641   | 56                    | B. Tech. (Petroleum Technology) | 201ES4T19   | Linear Control Systems                                                 |
| 642   | 57                    | B. Tech. (Petroleum Technology) | 201HS4T07   | Entrepreneurship Development and Business Management                   |
| 643   | 58                    | B. Tech. (Petroleum Technology) | 201PT3L01   | Principles of Geology for Petroleum Engineers Lab                      |
| 644   | 59                    | B. Tech. (Petroleum Technology) | 201PT3L02   | Fluid Mechanics for Petroleum Engineers Lab                            |
| 645   | 60                    | B. Tech. (Petroleum Technology) | 201PT3L03   | Mathematical Methods Lab                                               |
| 646   | 61                    | B. Tech. (Petroleum Technology) | 201PT3T01   | Principles of Geology for Petroleum Engineers                          |
| 647   | 62                    | B. Tech. (Petroleum Technology) | 201PT3T02   | Material Balance and Energy                                            |
| 648   | 63                    | B. Tech. (Petroleum Technology) | 201PT3T03   | Petroleum Exploration                                                  |
| 649   | 64                    | B. Tech. (Petroleum Technology) | 201PT3T04   | Fluid Mechanics for Petroleum Engineers                                |
| 650   | 65                    | B. Tech. (Petroleum Technology) | 201PT4H01   | Depositional Environments of Sedimentary Basins of India               |
| 651   | 66                    | B. Tech. (Petroleum Technology) | 201PT4H02   | Advanced Natural Gas Engineering                                       |
| 652   | 67                    | B. Tech. (Petroleum Technology) | 201PT4L04   | Heat Transfer Operations Lab                                           |
| 653   | 68                    | B. Tech. (Petroleum Technology) | 201PT4L05   | Petroleum Geology Lab                                                  |
| 654   | 69                    | B. Tech. (Petroleum Technology) | 201PT4M01   | Fundamentals of Petroleum Industry                                     |
| 655   | 70                    | B. Tech. (Petroleum Technology) | 201PT4M02   | Fundamentals of Earth Science                                          |
| 656   | 71                    | B. Tech. (Petroleum Technology) | 201PT4M03   | Principles of Petroleum Geophysics                                     |
| 657   | 72                    | B. Tech. (Petroleum Technology) | 201PT4T05   | Petroleum Geology                                                      |
| 658   | 73                    | B. Tech. (Petroleum Technology) | 201PT4T06   | Heat Transfer Operations                                               |

| S. No | Program-wise<br>S. No | Program Name                        | Course Code | Course Name                                           |
|-------|-----------------------|-------------------------------------|-------------|-------------------------------------------------------|
| 659   | 74                    | B. Tech. (Petroleum Technology)     | 201SO3L09   | Geo-Statistics through SURPAC                         |
| 660   | 1                     | B. Tech. (Agricultural Engineering) | 171AG7E09   | Seed Processing and Storage Engineering               |
| 661   | 2                     | B. Tech. (Agricultural Engineering) | 171AG7E10   | Food Processing Plant Design and Layout               |
| 662   | 3                     | B. Tech. (Agricultural Engineering) | 171AG7E11   | Food Packaging Technology                             |
| 663   | 4                     | B. Tech. (Agricultural Engineering) | 171AG7E12   | Aqua Cultural Engineering                             |
| 664   | 5                     | B. Tech. (Agricultural Engineering) | 171AG7E13   | Soil Dynamics in Tillage and Traction                 |
| 665   | 6                     | B. Tech. (Agricultural Engineering) | 171AG7E14   | Computational Fluid Dynamics                          |
| 666   | 7                     | B. Tech. (Agricultural Engineering) | 171AG7L06   | Farm Machinery Lab – II                               |
| 667   | 8                     | B. Tech. (Agricultural Engineering) | 171AG7L07   | Dairy and Food Engineering Lab                        |
| 668   | 9                     | B. Tech. (Agricultural Engineering) | 171AG7P01   | Industry Oriented (Internship) Minor Project          |
| 669   | 10                    | B. Tech. (Agricultural Engineering) | 171AG7T18   | Micro Irrigation Engineering                          |
| 670   | 11                    | B. Tech. (Agricultural Engineering) | 171AG7T19   | Farm Machinery and Equipment – II                     |
| 671   | 12                    | B. Tech. (Agricultural Engineering) | 171AG7T20   | Dairy and Food Engineering                            |
| 672   | 13                    | B. Tech. (Agricultural Engineering) | 171AG8E15   | Hydraulic Devices and Control                         |
| 673   | 14                    | B. Tech. (Agricultural Engineering) | 171AG8E16   | Watershed Management                                  |
| 674   | 15                    | B. Tech. (Agricultural Engineering) | 171AG8E17   | Design of Agricultural Machinery                      |
| 675   | 16                    | B. Tech. (Agricultural Engineering) | 171AG8O01   | Digital Control systems                               |
| 676   | 17                    | B. Tech. (Agricultural Engineering) | 171AG8O02   | Industrial Pollution Control Engineering              |
| 677   | 18                    | B. Tech. (Agricultural Engineering) | 171AG8O03   | Mechatronics                                          |
| 678   | 19                    | B. Tech. (Agricultural Engineering) | 171AG8O04   | Water Resources Systems Planning and Management       |
| 679   | 20                    | B. Tech. (Agricultural Engineering) | 171AG8O05   | Image Processing Techniques                           |
| 680   | 21                    | B. Tech. (Agricultural Engineering) | 171AG8P02   | Major Project                                         |
| 681   | 22                    | B. Tech. (Agricultural Engineering) | 191AG5E01   | Engineering Properties of Biological Materials        |
| 682   | 23                    | B. Tech. (Agricultural Engineering) | 191AG5E02   | Mechanical Measurement and Instrumentation            |
| 683   | 24                    | B. Tech. (Agricultural Engineering) | 191AG5E03   | Theory of Structures                                  |
| 684   | 25                    | B. Tech. (Agricultural Engineering) | 191AG5L07   | Soil Mechanics Lab                                    |
| 685   | 26                    | B. Tech. (Agricultural Engineering) | 191AG5L08   | Theory and Design of Agricultural Machine LAB         |
| 686   | 27                    | B. Tech. (Agricultural Engineering) | 191AG5L09   | Agricultural Process Engineering and Food Quality LAB |
| 687   | 28                    | B. Tech. (Agricultural Engineering) | 191AG5O01   | Basic Crop Production Practices                       |

| S. No | Program-wise<br>S. No | Program Name                        | Course Code | Course Name                                            |
|-------|-----------------------|-------------------------------------|-------------|--------------------------------------------------------|
| 688   | 29                    | B. Tech. (Agricultural Engineering) | 191AG5T09   | Strength of Materials                                  |
| 689   | 30                    | B. Tech. (Agricultural Engineering) | 191AG5T10   | Theory and Design of Agricultural Machinery            |
| 690   | 31                    | B. Tech. (Agricultural Engineering) | 191AG5T11   | Agricultural Process Engineering and Food Quality      |
| 691   | 32                    | B. Tech. (Agricultural Engineering) | 191AG6E04   | Agricultural Structures                                |
| 692   | 33                    | B. Tech. (Agricultural Engineering) | 191AG6E05   | Agro Industries and By- Product Utilization            |
| 693   | 34                    | B. Tech. (Agricultural Engineering) | 191AG6E06   | Human Engineering and Safety                           |
| 694   | 35                    | B. Tech. (Agricultural Engineering) | 191AG6E07   | Design of Agricultural Machinery                       |
| 695   | 36                    | B. Tech. (Agricultural Engineering) | 191AG6E08   | Seed Processing and Storage Engineering                |
| 696   | 37                    | B. Tech. (Agricultural Engineering) | 191AG6E09   | Watershed Planning and Management                      |
| 697   | 38                    | B. Tech. (Agricultural Engineering) | 191AG6L10   | Irrigation and Drainage Engineering LAB                |
| 698   | 39                    | B. Tech. (Agricultural Engineering) | 191AG6L11   | Agricultural Machinery and Equipment Lab               |
| 699   | 40                    | B. Tech. (Agricultural Engineering) | 191AG6O02   | Weather forecast in Agriculture                        |
| 700   | 41                    | B. Tech. (Agricultural Engineering) | 191AG6O03   | Bio-energy systems design and applications             |
| 701   | 42                    | B. Tech. (Agricultural Engineering) | 191AG6T12   | Irrigation and Drainage Engineering                    |
| 702   | 43                    | B. Tech. (Agricultural Engineering) | 191AG6T13   | Post-Harvest Engineering for Horticultural Produce     |
| 703   | 44                    | B. Tech. (Agricultural Engineering) | 191AG6T14   | Agricultural Machinery and Equipment                   |
| 704   | 45                    | B. Tech. (Agricultural Engineering) | 191BS4T16   | Numerical methods and Statistical Techniques           |
| 705   | 46                    | B. Tech. (Agricultural Engineering) | 201AG3L01   | Surveying and Levelling Lab                            |
| 706   | 47                    | B. Tech. (Agricultural Engineering) | 201AG3L02   | Fluid Mechanics and Open Channel Hydraulics Lab        |
| 707   | 48                    | B. Tech. (Agricultural Engineering) | 201AG3L03   | Thermodynamics, Refrigeration and Air Conditioning Lab |
| 708   | 49                    | B. Tech. (Agricultural Engineering) | 201AG3T01   | Surveying and Levelling                                |
| 709   | 50                    | B. Tech. (Agricultural Engineering) | 201AG3T02   | Fluid Mechanics and Open Channel Hydraulics            |
| 710   | 51                    | B. Tech. (Agricultural Engineering) | 201AG3T03   | Thermodynamics, Refrigeration and Air Conditioning     |
| 711   | 52                    | B. Tech. (Agricultural Engineering) | 201AG3T04   | Strength of Materials                                  |
| 712   | 53                    | B. Tech. (Agricultural Engineering) | 201AG4H01   | Water Quality and Management Measures                  |
| 713   | 54                    | B. Tech. (Agricultural Engineering) | 201AG4H02   | Machine Design                                         |
| 714   | 55                    | B. Tech. (Agricultural Engineering) | 201AG4H03   | Food Plant Design and Management                       |
| 715   | 56                    | B. Tech. (Agricultural Engineering) | 201AG4L04   | Tractor Systems and Controls Lab                       |
| 716   | 57                    | B. Tech. (Agricultural Engineering) | 201AG4L05   | Heat and Mass Transfer Lab                             |

| S. No | Program-wise<br>S. No | Program Name                            | Course Code | Course Name                                            |
|-------|-----------------------|-----------------------------------------|-------------|--------------------------------------------------------|
| 717   | 58                    | B. Tech. (Agricultural Engineering)     | 201AG4M01   | Groundwater, Wells and Pumps                           |
| 718   | 59                    | B. Tech. (Agricultural Engineering)     | 201AG4M02   | Tractor and Automotive Engines                         |
| 719   | 60                    | B. Tech. (Agricultural Engineering)     | 201AG4M03   | Engineering Properties of Agricultural Produce         |
| 720   | 61                    | B. Tech. (Agricultural Engineering)     | 201AG4T05   | Heat and Mass Transfer                                 |
| 721   | 62                    | B. Tech. (Agricultural Engineering)     | 201AG4T06   | Tractor Systems and Controls                           |
| 722   | 63                    | B. Tech. (Agricultural Engineering)     | 201BS2L04   | Applied Physics Lab                                    |
| 723   | 64                    | B. Tech. (Agricultural Engineering)     | 201BS3T13   | Discrete Mathematics                                   |
| 724   | 65                    | B. Tech. (Agricultural Engineering)     | 201BS4T16   | Probability and statistics                             |
| 725   | 66                    | B. Tech. (Agricultural Engineering)     | 201ES1T04   | Principles of Agronomy and Soil Science                |
| 726   | 67                    | B. Tech. (Agricultural Engineering)     | 201ES2L13   | Basic Electrical Engineering Lab                       |
| 727   | 68                    | B. Tech. (Agricultural Engineering)     | 201ES2T13   | Surveying                                              |
| 728   | 69                    | B. Tech. (Agricultural Engineering)     | 201ES4T20   | Mechanical and Materials Science and Engineering       |
| 729   | 1                     | M. Tech. (Power Electronics and Drives) | 192PD1E01   | Modern Control Theory                                  |
| 730   | 2                     | M. Tech. (Power Electronics and Drives) | 192PD1E02   | Power Quality and Custom Power Devices                 |
| 731   | 3                     | M. Tech. (Power Electronics and Drives) | 192PD1E03   | Programmable Logic Controllers and Applications        |
| 732   | 4                     | M. Tech. (Power Electronics and Drives) | 192PD1E04   | Artificial Intelligence Techniques                     |
| 733   | 5                     | M. Tech. (Power Electronics and Drives) | 192PD1E05   | Renewable Energy Technologies                          |
| 734   | 6                     | M. Tech. (Power Electronics and Drives) | 192PD1E06   | HVDC Transmission and Flexible AC Transmission Systems |
| 735   | 7                     | M. Tech. (Power Electronics and Drives) | 192PD1L01   | Power Electronics Simulation Laboratory                |
| 736   | 8                     | M. Tech. (Power Electronics and Drives) | 192PD1L02   | Power Converters Laboratory                            |
| 737   | 9                     | M. Tech. (Power Electronics and Drives) | 192PD1T01   | Electrical Machine Modeling and Analysis               |
| 738   | 10                    | M. Tech. (Power Electronics and Drives) | 192PD1T02   | Analysis of Power Electronic Converters                |
| 739   | 11                    | M. Tech. (Power Electronics and Drives) | 192PD2E07   | Control and Integration of Renewable Energy Systems    |
| 740   | 12                    | M. Tech. (Power Electronics and Drives) | 192PD2E08   | Hybrid Electric Vehicles                               |
| 741   | 13                    | M. Tech. (Power Electronics and Drives) | 192PD2E09   | Digital Control Systems                                |
| 742   | 14                    | M. Tech. (Power Electronics and Drives) | 192PD2E10   | Advanced Digital Signal Processing                     |
| 743   | 15                    | M. Tech. (Power Electronics and Drives) | 192PD2E11   | Applications of Power Converters                       |
| 744   | 16                    | M. Tech. (Power Electronics and Drives) | 192PD2E12   | Microcontrollers                                       |
| 745   | 17                    | M. Tech. (Power Electronics and Drives) | 192PD2L03   | Electric Drives Simulation Laboratory                  |

| S. No | Program-wise<br>S. No | Program Name                              | Course Code | Course Name                                         |
|-------|-----------------------|-------------------------------------------|-------------|-----------------------------------------------------|
| 746   | 18                    | M. Tech. (Power Electronics and Drives)   | 192PD2L04   | Electric Drives Laboratory                          |
| 747   | 19                    | M. Tech. (Power Electronics and Drives)   | 192PD2P01   | Mini Project with Seminar                           |
| 748   | 20                    | M. Tech. (Power Electronics and Drives)   | 192PD2T03   | Switched Mode Power Conversion                      |
| 749   | 21                    | M. Tech. (Power Electronics and Drives)   | 192PD2T04   | Power Electronic Control of Electrical Drives       |
| 750   | 22                    | M. Tech. (Power Electronics and Drives)   | 192PD3E13   | Digital Signal Processing Controlled Drives         |
| 751   | 23                    | M. Tech. (Power Electronics and Drives)   | 192PD3E14   | Smart Grid Technologies                             |
| 752   | 24                    | M. Tech. (Power Electronics and Drives)   | 192PD3E15   | Modeling and Simulation of Power Electronic Systems |
| 753   | 25                    | M. Tech. (Power Electronics and Drives)   | 192PD3O01   | Renewable Energy Technologies                       |
| 754   | 26                    | M. Tech. (Power Electronics and Drives)   | 192PD3O02   | Hybrid Electric Vehicles                            |
| 755   | 27                    | M. Tech. (Power Electronics and Drives)   | 192PD3O03   | Energy Audit and conservation Management            |
| 756   | 28                    | M. Tech. (Power Electronics and Drives)   | 192PD3O04   | Neural Networks and Fuzzy Logic                     |
| 757   | 29                    | M. Tech. (Power Electronics and Drives)   | 192PD3O05   | Industrial Safety                                   |
| 758   | 30                    | M. Tech. (Power Electronics and Drives)   | 192PD3O06   | Composite Materials                                 |
| 759   | 31                    | M. Tech. (Power Electronics and Drives)   | 192PD3P02   | Dissertation I/Industrial Project                   |
| 760   | 32                    | M. Tech. (Power Electronics and Drives)   | 192PD4P03   | Dissertation II                                     |
| 761   | 1                     | M. Tech. (Computer Science & Engineering) | 192CS1E01   | Big Data Analytics                                  |
| 762   | 2                     | M. Tech. (Computer Science & Engineering) | 192CS1E02   | Digital Image Processing                            |
| 763   | 3                     | M. Tech. (Computer Science & Engineering) | 192CS1E03   | Advanced Operating Systems                          |
| 764   | 4                     | M. Tech. (Computer Science & Engineering) | 192CS1E04   | Advanced Computer Networks                          |
| 765   | 5                     | M. Tech. (Computer Science & Engineering) | 192CS1E05   | Internet of Things                                  |
| 766   | 6                     | M. Tech. (Computer Science & Engineering) | 192CS1E06   | Object Oriented Software Engineering                |
| 767   | 7                     | M. Tech. (Computer Science & Engineering) | 192CS1L01   | Advanced Data Structures and Algorithms Lab         |
| 768   | 8                     | M. Tech. (Computer Science & Engineering) | 192CS1L02   | Advanced Computing Lab                              |
| 769   | 9                     | M. Tech. (Computer Science & Engineering) | 192CS1T01   | Mathematical Foundations of Computer Science        |
| 770   | 10                    | M. Tech. (Computer Science & Engineering) | 192CS1T02   | Advanced Data Structures and Algorithms             |
| 771   | 11                    | M. Tech. (Computer Science & Engineering) | 192CS2E07   | Advanced Databases and Mining                       |
| 772   | 12                    | M. Tech. (Computer Science & Engineering) | 192CS2E08   | Ad Hoc and Sensor Networks                          |
| 773   | 13                    | M. Tech. (Computer Science & Engineering) | 192CS2E09   | Soft Computing                                      |
| 774   | 14                    | M. Tech. (Computer Science & Engineering) | 192CS2E10   | Cloud Computing                                     |

| S. No | Program-wise<br>S. No | Program Name                                            | Course Code | Course Name                                        |
|-------|-----------------------|---------------------------------------------------------|-------------|----------------------------------------------------|
| 775   | 15                    | M. Tech. (Computer Science & Engineering)               | 192CS2E11   | Principles of computer security                    |
| 776   | 16                    | M. Tech. (Computer Science & Engineering)               | 192CS2E12   | High Performance Computing                         |
| 777   | 17                    | M. Tech. (Computer Science & Engineering)               | 192CS2L03   | Machine Learning with Python lab                   |
| 778   | 18                    | M. Tech. (Computer Science & Engineering)               | 192CS2L04   | MEAN Stack Technologies Lab                        |
| 779   | 19                    | M. Tech. (Computer Science & Engineering)               | 192CS2P01   | Mini Project with Seminar                          |
| 780   | 20                    | M. Tech. (Computer Science & Engineering)               | 192CS2T03   | Machine learning                                   |
| 781   | 21                    | M. Tech. (Computer Science & Engineering)               | 192CS2T04   | MEAN Stack Technologies                            |
| 782   | 22                    | M. Tech. (Computer Science & Engineering)               | 192CS3E13   | Deep Learning                                      |
| 783   | 23                    | M. Tech. (Computer Science & Engineering)               | 192CS3E14   | Social Network Analysis                            |
| 784   | 24                    | M. Tech. (Computer Science & Engineering)               | 192CS3O01   | Python Programming (CSE)                           |
| 785   | 25                    | M. Tech. (Computer Science & Engineering)               | 192CS3O02   | Principles of Cyber Security                       |
| 786   | 26                    | M. Tech. (Computer Science & Engineering)               | 192CS3O03   | Internet of Things                                 |
| 787   | 27                    | M. Tech. (Computer Science & Engineering)               | 192CS3O04   | Machine Learning                                   |
| 788   | 28                    | M. Tech. (Computer Science & Engineering)               | 192CS3O05   | Artificial Intelligence                            |
| 789   | 29                    | M. Tech. (Computer Science & Engineering)               | 192CS3O06   | Deep Learning                                      |
| 790   | 30                    | M. Tech. (Computer Science & Engineering)               | 192CS3P02   | Dissertation-I/ Industrial Project                 |
| 791   | 31                    | M. Tech. (Computer Science & Engineering)               | 192CS4P03   | Dissertation-II                                    |
| 792   | 1                     | B. Tech. (Artificial Intelligence and Machine Learning) | 201BS2T05   | Partial Differential Equations and Vector Calculus |
| 793   | 2                     | B. Tech. (Artificial Intelligence and Machine Learning) | 201BS4T15   | Numerical Methods and Statistical Techniques       |
| 794   | 3                     | B. Tech. (Artificial Intelligence and Machine Learning) | 201BS4T18   | Managerial Economics and Financial Accountancy     |
| 795   | 4                     | B. Tech. (Artificial Intelligence and Machine Learning) | 201ES2I03   | Object Oriented Programming through JAVA           |
| 796   | 5                     | B. Tech. (Artificial Intelligence and Machine Learning) | 201ES2T04   | Python Programming                                 |
| 797   | 6                     | B. Tech. (Artificial Intelligence and Machine Learning) | 201ES3T15   | Thermodynamics                                     |
| 798   | 7                     | B. Tech. (Artificial Intelligence and Machine Learning) | 201HS1L01   | Communicative English Lab                          |
| 799   | 1                     | M. Tech. (VLSI Design)                                  | 192EM2E11   | Network Security and Cryptography                  |
| 800   | 2                     | M. Tech. (VLSI Design)                                  | 192EM3E13   | IOT and its Applications                           |
| 801   | 3                     | M. Tech. (VLSI Design)                                  | 192EM3E14   | Hardware Software co-design                        |
| 802   | 4                     | M. Tech. (VLSI Design)                                  | 192EM3E15   | Artificial Intelligence                            |

| S. No | Program-wise<br>S. No | Program Name           | Course Code | Course Name                                               |
|-------|-----------------------|------------------------|-------------|-----------------------------------------------------------|
| 803   | 5                     | M. Tech. (VLSI Design) | 192ES3O01   | Embedded System Design                                    |
| 804   | 6                     | M. Tech. (VLSI Design) | 192ES3O02   | Digital System Design                                     |
| 805   | 7                     | M. Tech. (VLSI Design) | 192ES3O03   | Programming Languages for Embedded Systems                |
| 806   | 8                     | M. Tech. (VLSI Design) | 192ES3O04   | Sensors and Actuators                                     |
| 807   | 9                     | M. Tech. (VLSI Design) | 192HS1T01   | Research Methodology and IPR                              |
| 808   | 10                    | M. Tech. (VLSI Design) | 192MC1A01   | English for research paper writing                        |
| 809   | 11                    | M. Tech. (VLSI Design) | 192MC1A02   | Disaster Management                                       |
| 810   | 12                    | M. Tech. (VLSI Design) | 192MC1A03   | Sanskrit for technical knowledge                          |
| 811   | 13                    | M. Tech. (VLSI Design) | 192MC1A04   | Value education                                           |
| 812   | 14                    | M. Tech. (VLSI Design) | 192MC1A05   | Constitution of india                                     |
| 813   | 15                    | M. Tech. (VLSI Design) | 192MC1A06   | Pedagogystudies                                           |
| 814   | 16                    | M. Tech. (VLSI Design) | 192MC1A07   | Stress management by YOGA                                 |
| 815   | 17                    | M. Tech. (VLSI Design) | 192MC1A08   | Personality development through life enlightenment skills |
| 816   | 18                    | M. Tech. (VLSI Design) | 192MC1A09   | Soft skills                                               |
| 817   | 19                    | M. Tech. (VLSI Design) | 192VD1E01   | VLSI Technology                                           |
| 818   | 20                    | M. Tech. (VLSI Design) | 192VD1E02   | Nano materials and Nanotechnology                         |
| 819   | 21                    | M. Tech. (VLSI Design) | 192VD1E03   | MEMS Technology                                           |
| 820   | 22                    | M. Tech. (VLSI Design) | 192VD1E04   | Device Modelling                                          |
| 821   | 23                    | M. Tech. (VLSI Design) | 192VD1E05   | Nano-Electronics                                          |
| 822   | 24                    | M. Tech. (VLSI Design) | 192VD1E06   | Photonics                                                 |
| 823   | 25                    | M. Tech. (VLSI Design) | 192VD1L01   | CMOS Analog IC Design Lab                                 |
| 824   | 26                    | M. Tech. (VLSI Design) | 192VD1L02   | CMOS Digital IC Design Lab                                |
| 825   | 27                    | M. Tech. (VLSI Design) | 192VD1T01   | CMOS Analog IC Design                                     |
| 826   | 28                    | M. Tech. (VLSI Design) | 192VD1T02   | CMOS Digital IC Design                                    |
| 827   | 29                    | M. Tech. (VLSI Design) | 192VD2E07   | Design For Testability                                    |
| 828   | 30                    | M. Tech. (VLSI Design) | 192VD2E08   | IoT and Its Applications                                  |
| 829   | 31                    | M. Tech. (VLSI Design) | 192VD2E09   | VLSI Signal Processing                                    |
| 830   | 32                    | M. Tech. (VLSI Design) | 192VD2E10   | Microcontrollers and programmable                         |
| 831   | 33                    | M. Tech. (VLSI Design) | 192VD2E11   | Low Power VLSI Design                                     |

| S. No | Program-wise<br>S. No | Program Name                      | Course Code | Course Name                                              |
|-------|-----------------------|-----------------------------------|-------------|----------------------------------------------------------|
| 832   | 34                    | M. Tech. (VLSI Design)            | 192VD2L03   | Mixed Signal IC Design Lab                               |
| 833   | 35                    | M. Tech. (VLSI Design)            | 192VD2L04   | Physical Design Automation Lab                           |
| 834   | 36                    | M. Tech. (VLSI Design)            | 192VD2P01   | Mini Project with Seminar                                |
| 835   | 37                    | M. Tech. (VLSI Design)            | 192VD2T03   | Mixed Signal and RF IC Design                            |
| 836   | 38                    | M. Tech. (VLSI Design)            | 192VD2T04   | Physical Design Automation                               |
| 837   | 39                    | M. Tech. (VLSI Design)            | 192VD3E12   | Scripting Languages for VLSI                             |
| 838   | 40                    | M. Tech. (VLSI Design)            | 192VD3E13   | Digital System Design and Verification                   |
| 839   | 41                    | M. Tech. (VLSI Design)            | 192VD3O01   | Physical Design Automation                               |
| 840   | 42                    | M. Tech. (VLSI Design)            | 192VD3O02   | VLSI Technology                                          |
| 841   | 43                    | M. Tech. (VLSI Design)            | 192VD3O03   | Nano-electronics                                         |
| 842   | 44                    | M. Tech. (VLSI Design)            | 192VD3P03   | Dissertation-I/ Industrial Project                       |
| 843   | 45                    | M. Tech. (VLSI Design)            | 192VD3P04   | Dissertation-II                                          |
| 844   | 46                    | M. Tech. (VLSI Design)            | 19VD3O01    | Physical Design Automation                               |
| 845   | 47                    | M. Tech. (VLSI Design)            | 19VD3O02    | VLSI Technology                                          |
| 846   | 48                    | M. Tech. (VLSI Design)            | 19VD3O03    | Nano-electronics                                         |
| 847   | 1                     | M. Tech. (Structural Engineering) | 1925T1E01   | Matrix Analysis of Structures                            |
| 848   | 2                     | M. Tech. (Structural Engineering) | 1925T1E02   | Analytical & Numerical Method for Structural Engineering |
| 849   | 3                     | M. Tech. (Structural Engineering) | 1925T1E03   | Design of RCC Foundations                                |
| 850   | 4                     | M. Tech. (Structural Engineering) | 1925T1E04   | Bridge Engineering                                       |
| 851   | 5                     | M. Tech. (Structural Engineering) | 1925T1E05   | Repair & Rehabilitation of Structures                    |
| 852   | 6                     | M. Tech. (Structural Engineering) | 1925T1E06   | Advanced Reinforced Concrete Design                      |
| 853   | 7                     | M. Tech. (Structural Engineering) | 1925T1L01   | Advanced Concrete Technology Laboratory                  |
| 854   | 8                     | M. Tech. (Structural Engineering) | 1925T1L02   | Advanced Structural Engineering Laboratory               |
| 855   | 9                     | M. Tech. (Structural Engineering) | 1925T2E07   | Stability of Structures                                  |
| 856   | 10                    | M. Tech. (Structural Engineering) | 1925T2E08   | Advanced Steel Design                                    |
| 857   | 11                    | M. Tech. (Structural Engineering) | 1925T2E09   | Analysis of offshore Structures                          |
| 858   | 12                    | M. Tech. (Structural Engineering) | 1925T2E10   | Earthquake Resistant Design of Buildings                 |
| 859   | 13                    | M. Tech. (Structural Engineering) | 1925T2E11   | Precast and Prefabricated Structures                     |
| 860   | 14                    | M. Tech. (Structural Engineering) | 1925T2E12   | Earth Retaining Structures                               |

| S. No | Program-wise<br>S. No | Program Name                      | Course Code | Course Name                                      |
|-------|-----------------------|-----------------------------------|-------------|--------------------------------------------------|
| 861   | 15                    | M. Tech. (Structural Engineering) | 192ST1T01   | Theory of Elasticity                             |
| 862   | 16                    | M. Tech. (Structural Engineering) | 192ST1T02   | Structural dynamics                              |
| 863   | 17                    | M. Tech. (Structural Engineering) | 192ST1T03   | Advanced Concrete Technology                     |
| 864   | 18                    | M. Tech. (Structural Engineering) | 192ST2L03   | Computer Aided Design Laboratory                 |
| 865   | 19                    | M. Tech. (Structural Engineering) | 192ST2L04   | Structural Design Laboratory                     |
| 866   | 20                    | M. Tech. (Structural Engineering) | 192ST2P01   | Mini Project With Seminar                        |
| 867   | 21                    | M. Tech. (Structural Engineering) | 192ST2T04   | Finite Element Methods in Structural Engineering |
| 868   | 22                    | M. Tech. (Structural Engineering) | 192ST2T05   | Theory of Plates and Shells                      |
| 869   | 23                    | M. Tech. (Structural Engineering) | 192ST3E13   | Design of Prestressed Concrete Structures        |
| 870   | 24                    | M. Tech. (Structural Engineering) | 192ST3E14   | Structural Health Monitoring                     |
| 871   | 25                    | M. Tech. (Structural Engineering) | 192ST3E15   | Industrial Structures                            |
| 872   | 26                    | M. Tech. (Structural Engineering) | 192ST3O01   | Repair and Rehabilitation of Structures          |
| 873   | 27                    | M. Tech. (Structural Engineering) | 192ST3O02   | Green Building Systems                           |
| 874   | 28                    | M. Tech. (Structural Engineering) | 192ST3O03   | Basic Concrete Technology                        |
| 875   | 29                    | M. Tech. (Structural Engineering) | 192ST3O04   | Basic Foundation Engineering                     |
| 876   | 30                    | M. Tech. (Structural Engineering) | 192ST3P02   | Dissertation-I/ Industrial Project               |
| 877   | 31                    | M. Tech. (Structural Engineering) | 192ST4P03   | Dissertation-II                                  |
| 878   | 32                    | M. Tech. (Structural Engineering) | 192STM00C1  | MOOCS-I*                                         |
| 879   | 33                    | M. Tech. (Structural Engineering) | 19ST3O01    | Repair and Rehabilitation of Structures          |
| 880   | 34                    | M. Tech. (Structural Engineering) | 19ST3O02    | Green Building Systems                           |
| 881   | 35                    | M. Tech. (Structural Engineering) | 19ST3O03    | Basic Concrete Technology                        |
| 882   | 36                    | M. Tech. (Structural Engineering) | 19ST3O04    | Basic Foundation Engineering                     |
| 883   | 37                    | M. Tech. (Structural Engineering) | 19STE3O01   | Fuels and Combustion                             |
| 884   | 38                    | M. Tech. (Structural Engineering) | 19STE3O02   | IC Engines                                       |
| 885   | 39                    | M. Tech. (Structural Engineering) | 19STE3O03   | Automotive Technology                            |
| 886   | 40                    | M. Tech. (Structural Engineering) | 19STE3O04   | Embedded System Design                           |
| 887   | 41                    | M. Tech. (Structural Engineering) | 19STE3O05   | Digital System Design                            |
| 888   | 1                     | Master of Business Administration | 175FI7E01   | Security Analysis                                |
| 889   | 2                     | Master of Business Administration | 175FI7E02   | Banking and Insurance Management                 |

| S. No | Program-wise<br>S. No | Program Name                      | Course Code | Course Name                                      |
|-------|-----------------------|-----------------------------------|-------------|--------------------------------------------------|
| 890   | 3                     | Master of Business Administration | 175FI7E03   | Advanced Management Accounting                   |
| 891   | 4                     | Master of Business Administration | 175FI8E04   | Strategic Financial Management                   |
| 892   | 5                     | Master of Business Administration | 175FI8E05   | Portfolio Management                             |
| 893   | 6                     | Master of Business Administration | 175FI8E06   | Financial Markets and Services                   |
| 894   | 7                     | Master of Business Administration | 175FI9E07   | Global Financial Management                      |
| 895   | 8                     | Master of Business Administration | 175FI9E08   | Risk Management                                  |
| 896   | 9                     | Master of Business Administration | 175FI9E09   | Tax Management                                   |
| 897   | 10                    | Master of Business Administration | 175HR7E01   | HR Planning                                      |
| 898   | 11                    | Master of Business Administration | 175HR7E02   | Leadership Management                            |
| 899   | 12                    | Master of Business Administration | 175HR7E03   | Compensation and Reward Management               |
| 900   | 13                    | Master of Business Administration | 175HR8E04   | Performance Management                           |
| 901   | 14                    | Master of Business Administration | 175HR8E05   | Strategic Human Resource Management              |
| 902   | 15                    | Master of Business Administration | 175HR8E06   | Organizational Development and Change Management |
| 903   | 16                    | Master of Business Administration | 175HR9E07   | Global Human Resource Management                 |
| 904   | 17                    | Master of Business Administration | 175HR9E08   | Intellectual Property Rights                     |
| 905   | 18                    | Master of Business Administration | 175HR9E09   | Corporate Governance                             |
| 906   | 19                    | Master of Business Administration | 175IM7T30   | Knowledge Management                             |
| 907   | 20                    | Master of Business Administration | 175IM7T31   | Strategic Cost Management                        |
| 908   | 21                    | Master of Business Administration | 175IM8T32   | Total Quality Management                         |
| 909   | 22                    | Master of Business Administration | 175IM8T33   | Project Management                               |
| 910   | 23                    | Master of Business Administration | 175IM9T34   | Intellectual Property Rights                     |
| 911   | 24                    | Master of Business Administration | 175IM9T35   | Corporate Governance                             |
| 912   | 25                    | Master of Business Administration | 175IMAP02   | Major Project                                    |
| 913   | 26                    | Master of Business Administration | 175MA7E01   | Consumer Behavior                                |
| 914   | 27                    | Master of Business Administration | 175MA7E02   | Rural Marketing                                  |
| 915   | 28                    | Master of Business Administration | 175MA7E03   | Supply Chain Management                          |
| 916   | 29                    | Master of Business Administration | 175MA8E04   | Strategic Marketing Management                   |
| 917   | 30                    | Master of Business Administration | 175MA8E05   | Services Marketing                               |
| 918   | 31                    | Master of Business Administration | 175MA8E06   | Services Marketing                               |

| S. No | Program-wise<br>S. No | Program Name                      | Course Code | Course Name                                        |
|-------|-----------------------|-----------------------------------|-------------|----------------------------------------------------|
| 919   | 32                    | Master of Business Administration | 175MA9E07   | Promotion and Distribution Management              |
| 920   | 33                    | Master of Business Administration | 175MA9E08   | Global Marketing Management                        |
| 921   | 34                    | Master of Business Administration | 175MA9E09   | Retail Marketing                                   |
| 922   | 35                    | Master of Business Administration | 175SY7E01   | E-Business                                         |
| 923   | 36                    | Master of Business Administration | 175SY7E02   | RDBMS                                              |
| 924   | 37                    | Master of Business Administration | 175SY7E03   | Web Designing                                      |
| 925   | 38                    | Master of Business Administration | 175SY8E04   | System Analysis and Design                         |
| 926   | 39                    | Master of Business Administration | 175SY8E05   | Business Intelligence                              |
| 927   | 40                    | Master of Business Administration | 175SY8E06   | Enterprise Resource Planning                       |
| 928   | 41                    | Master of Business Administration | 175SY9E07   | Cyber Laws and Security                            |
| 929   | 42                    | Master of Business Administration | 175SY9E08   | Information Systems and Audit                      |
| 930   | 43                    | Master of Business Administration | 175SY9E09   | SAP                                                |
| 931   | 44                    | Master of Business Administration | 194FI3E01   | Investment Analysis and Portfolio Management       |
| 932   | 45                    | Master of Business Administration | 194FI3E02   | Managing Banks and Financial Institutions          |
| 933   | 46                    | Master of Business Administration | 194FI3E03   | Financial Markets and Services                     |
| 934   | 47                    | Master of Business Administration | 194FI3E04   | Taxation                                           |
| 935   | 48                    | Master of Business Administration | 194FI4E05   | Financial Derivatives                              |
| 936   | 49                    | Master of Business Administration | 194FI4E06   | Global Financial Management                        |
| 937   | 50                    | Master of Business Administration | 194FI4E07   | Risk Management                                    |
| 938   | 51                    | Master of Business Administration | 194FI4E08   | Behavioral Finance                                 |
| 939   | 52                    | Master of Business Administration | 194HR3E01   | Leadership and Change Management                   |
| 940   | 53                    | Master of Business Administration | 194HR3E02   | Performance Evaluation and Compensation Management |
| 941   | 54                    | Master of Business Administration | 194HR3E03   | Human Capital Management                           |
| 942   | 55                    | Master of Business Administration | 194HR3E04   | Manpower Planning, Recruitment, and Selection      |
| 943   | 56                    | Master of Business Administration | 194HR4E05   | Labour Welfare and employment laws                 |
| 944   | 57                    | Master of Business Administration | 194HR4E06   | International HRM                                  |
| 945   | 58                    | Master of Business Administration | 194HR4E07   | Employee Relations and Engagement                  |
| 946   | 59                    | Master of Business Administration | 194HR4E08   | Strategic HRM                                      |
| 947   | 60                    | Master of Business Administration | 194MA3E01   | Consumer Behavior                                  |

| S. No | Program-wise<br>S. No | Program Name                      | Course Code | Course Name                                              |
|-------|-----------------------|-----------------------------------|-------------|----------------------------------------------------------|
| 948   | 61                    | Master of Business Administration | 194MA3E02   | Retail Management                                        |
| 949   | 62                    | Master of Business Administration | 194MA3E03   | Strategic Marketing Management                           |
| 950   | 63                    | Master of Business Administration | 194MA3E04   | Digital and Social Media Marketing                       |
| 951   | 64                    | Master of Business Administration | 194MA4E05   | Services Marketing                                       |
| 952   | 65                    | Master of Business Administration | 194MA4E06   | Promotional and Distribution Management                  |
| 953   | 66                    | Master of Business Administration | 194MA4E07   | Green Marketing                                          |
| 954   | 67                    | Master of Business Administration | 194MA4E08   | Global Marketing Management                              |
| 955   | 68                    | Master of Business Administration | 194MB1L01   | Business Communication and Soft Skills Lab.              |
| 956   | 69                    | Master of Business Administration | 194MB1L02   | Information Technology – Lab – I (Spreadsheet and Tally) |
| 957   | 70                    | Master of Business Administration | 194MB1O01   | Cross Cultural Management.                               |
| 958   | 71                    | Master of Business Administration | 194MB1O02   | Rural Innovation Projects.                               |
| 959   | 72                    | Master of Business Administration | 194MB1T01   | Management and Organizational Behavior                   |
| 960   | 73                    | Master of Business Administration | 194MB1T02   | Managerial Economics                                     |
| 961   | 74                    | Master of Business Administration | 194MB1T03   | Accounting for Managers                                  |
| 962   | 75                    | Master of Business Administration | 194MB1T04   | Quantitative Analysis for Business Decisions             |
| 963   | 76                    | Master of Business Administration | 194MB1T05   | Legal and Business Environment                           |
| 964   | 77                    | Master of Business Administration | 194MB1T06   | Business Communication and Soft Skills                   |
| 965   | 78                    | Master of Business Administration | 194MB2L03   | IT-Lab – 2 (R Programming)                               |
| 966   | 79                    | Master of Business Administration | 194MB2O04   | Project Management.                                      |
| 967   | 80                    | Master of Business Administration | 194MB2O05   | Technology Management.                                   |
| 968   | 81                    | Master of Business Administration | 194MB2O06   | Lean Management.                                         |
| 969   | 82                    | Master of Business Administration | 194MB2O07   | Data base Management System.                             |
| 970   | 83                    | Master of Business Administration | 194MB2T07   | Financial Management                                     |
| 971   | 84                    | Master of Business Administration | 194MB2T08   | Human Resource Management                                |
| 972   | 85                    | Master of Business Administration | 194MB2T09   | Marketing Management                                     |
| 973   | 86                    | Master of Business Administration | 194MB2T10   | Operations Management                                    |
| 974   | 87                    | Master of Business Administration | 194MB2T11   | Business Research Methods                                |
| 975   | 88                    | Master of Business Administration | 194MB3P01   | Industrial Project based on Summer Internship            |
| 976   | 89                    | Master of Business Administration | 194MB3T12   | Strategic Management                                     |

| S. No | Program-wise<br>S. No | Program Name                      | Course Code | Course Name                                    |
|-------|-----------------------|-----------------------------------|-------------|------------------------------------------------|
| 977   | 90                    | Master of Business Administration | 194MB3T13   | Operations Research                            |
| 978   | 91                    | Master of Business Administration | 194MB4C01   | Comprehensive Viva - Voce                      |
| 979   | 92                    | Master of Business Administration | 194MB4T14   | Supply Chain Management and Analytics          |
| 980   | 93                    | Master of Business Administration | 194MB4T15   | Innovation and Entrepreneurship                |
| 981   | 94                    | Master of Business Administration | 194MBMOOC1  | MOOCs: SWAYAM/NPTEL                            |
| 982   | 95                    | Master of Business Administration | 194SY3E01   | Data Mining for Business Decisions             |
| 983   | 96                    | Master of Business Administration | 194SY3E02   | Managing Software Projects                     |
| 984   | 97                    | Master of Business Administration | 194SY3E03   | Web Designing                                  |
| 985   | 98                    | Master of Business Administration | 194SY3E04   | Business Analytics                             |
| 986   | 99                    | Master of Business Administration | 194SY4E05   | Big Data Analytics                             |
| 987   | 100                   | Master of Business Administration | 194SY4E06   | Enterprise Resource Planning                   |
| 988   | 101                   | Master of Business Administration | 194SY4E07   | Cyber Laws & Security                          |
| 989   | 102                   | Master of Business Administration | 194SY4E08   | Artificial Intelligence and Machine Learning   |
| 990   | 1                     | Master of Computer Applications   | 193MC3L07   | Database Management Systems Lab                |
| 991   | 2                     | Master of Computer Applications   | 193MC3L08   | Advanced Java Programming Lab                  |
| 992   | 3                     | Master of Computer Applications   | 193MC3L09   | OOAD through UML Lab                           |
| 993   | 4                     | Master of Computer Applications   | 193MC3T11   | Database Management Systems                    |
| 994   | 5                     | Master of Computer Applications   | 193MC3T12   | Computer Networks                              |
| 995   | 6                     | Master of Computer Applications   | 193MC3T13   | Design and Analysis of Algorithms              |
| 996   | 7                     | Master of Computer Applications   | 193MC3T14   | Advanced Java Programming                      |
| 997   | 8                     | Master of Computer Applications   | 193MC3T15   | Object Oriented Analysis and Design            |
| 998   | 9                     | Master of Computer Applications   | 193MC4E01   | Embedded Computing                             |
| 999   | 10                    | Master of Computer Applications   | 193MC4E02   | Artificial Intelligence                        |
| 1000  | 11                    | Master of Computer Applications   | 193MC4E03   | MOOCs-1 (NPTEL/SWAYAM) (Self-learning courses) |
| 1001  | 12                    | Master of Computer Applications   | 193MC4E04   | Cloud Computing                                |
| 1002  | 13                    | Master of Computer Applications   | 193MC4L10   | Full Stack Technologies Lab                    |
| 1003  | 14                    | Master of Computer Applications   | 193MC4L11   | Data Mining with R Lab                         |
| 1004  | 15                    | Master of Computer Applications   | 193MC4L12   | Python Programming Lab                         |
| 1005  | 16                    | Master of Computer Applications   | 193MC4T16   | Data Warehousing and Data Mining               |

| S. No | Program-wise<br>S. No | Program Name                    | Course Code | Course Name                                               |
|-------|-----------------------|---------------------------------|-------------|-----------------------------------------------------------|
| 1006  | 17                    | Master of Computer Applications | 193MC4T17   | Full Stack Technologies                                   |
| 1007  | 18                    | Master of Computer Applications | 193MC4T18   | Python Programming                                        |
| 1008  | 19                    | Master of Computer Applications | 193MC5E07   | Digital Marketing                                         |
| 1009  | 20                    | Master of Computer Applications | 193MC5E08   | Natural Language Processing                               |
| 1010  | 21                    | Master of Computer Applications | 193MC5E09   | MOOCs-3 (NPTEL/SWAYAM)                                    |
| 1011  | 22                    | Master of Computer Applications | 193MC5E10   | Internet of Things                                        |
| 1012  | 23                    | Master of Computer Applications | 193MC5E11   | DevOps                                                    |
| 1013  | 24                    | Master of Computer Applications | 193MC5E12   | MOOCs-4 (NPTEL/SWAYAM)                                    |
| 1014  | 25                    | Master of Computer Applications | 193MC5L13   | Cryptography and Network Security Lab                     |
| 1015  | 26                    | Master of Computer Applications | 193MC5L14   | Big Data Analytics Lab                                    |
| 1016  | 27                    | Master of Computer Applications | 193MC5L15   | Machine Learning with Python Lab                          |
| 1017  | 28                    | Master of Computer Applications | 193MC5T20   | Big Data Analytics                                        |
| 1018  | 29                    | Master of Computer Applications | 193MC5T21   | Machine Learning                                          |
| 1019  | 30                    | Master of Computer Applications | 193MC6P01   | Dissertation/ Thesis                                      |
| 1020  | 31                    | Master of Computer Applications | 193MC6R01   | Project Seminar                                           |
| 1021  | 32                    | Master of Computer Applications | 19MC1A01    | English for Research Paper Writing                        |
| 1022  | 33                    | Master of Computer Applications | 19MC1A02    | Disaster Management                                       |
| 1023  | 34                    | Master of Computer Applications | 19MC1A03    | Sanskrit for Technical Knowledge                          |
| 1024  | 35                    | Master of Computer Applications | 19MC1A04    | Value Education                                           |
| 1025  | 36                    | Master of Computer Applications | 19MC1A05    | Constitution of India                                     |
| 1026  | 37                    | Master of Computer Applications | 19MC1A06    | Pedagogy Studies                                          |
| 1027  | 38                    | Master of Computer Applications | 19MC1A07    | Stress Management by Yoga                                 |
| 1028  | 39                    | Master of Computer Applications | 19MC1A08    | Personality Development through Life Enlightenment Skills |
| 1029  | 40                    | Master of Computer Applications | 19MC1A09    | Soft Skills                                               |
| 1030  | 41                    | Master of Computer Applications | 203MC1L01   | Operating Systems and Linux Lab                           |
| 1031  | 42                    | Master of Computer Applications | 203MC1L02   | Data Structures Lab                                       |
| 1032  | 43                    | Master of Computer Applications | 203MC1L03   | JAVA Programming Lab                                      |
| 1033  | 44                    | Master of Computer Applications | 203MC1P01   | Socially Relevant Project using Design Thinking           |
| 1034  | 45                    | Master of Computer Applications | 203MC1T01   | Business Communication                                    |

| S. No | Program-wise<br>S. No | Program Name                    | Course Code | Course Name                                                           |
|-------|-----------------------|---------------------------------|-------------|-----------------------------------------------------------------------|
| 1035  | 46                    | Master of Computer Applications | 203MC1T02   | Mathematical and Statistical Foundations                              |
| 1036  | 47                    | Master of Computer Applications | 203MC1T03   | Computer Organization and Operating Systems                           |
| 1037  | 48                    | Master of Computer Applications | 203MC1T04   | Data Structures                                                       |
| 1038  | 49                    | Master of Computer Applications | 203MC1T05   | Object Oriented Programming with JAVA                                 |
| 1039  | 50                    | Master of Computer Applications | 203MC2E01   | No SQL Databases                                                      |
| 1040  | 51                    | Master of Computer Applications | 203MC2E02   | Design and Analysis of Algorithms                                     |
| 1041  | 52                    | Master of Computer Applications | 203MC2E03   | Mobile Application Development                                        |
| 1042  | 53                    | Master of Computer Applications | 203MC2E04   | Artificial Intelligence                                               |
| 1043  | 54                    | Master of Computer Applications | 203MC2E05   | Accounting for Managers                                               |
| 1044  | 55                    | Master of Computer Applications | 203MC2L04   | DBMS Lab                                                              |
| 1045  | 56                    | Master of Computer Applications | 203MC2L05   | Computer Networks Lab                                                 |
| 1046  | 57                    | Master of Computer Applications | 203MC2L06   | Software Engineering and Design Patterns Lab                          |
| 1047  | 58                    | Master of Computer Applications | 203MC2S01   | Bridge Course (Python Programming to be taken through MOOCs)          |
| 1048  | 59                    | Master of Computer Applications | 203MC2T06   | Database Management Systems                                           |
| 1049  | 60                    | Master of Computer Applications | 203MC2T07   | Computer Networks                                                     |
| 1050  | 61                    | Master of Computer Applications | 203MC2T08   | Software Engineering and Design Patterns                              |
| 1051  | 62                    | Master of Computer Applications | 203MC2T09   | Data Warehousing and Mining                                           |
| 1052  | 63                    | Master of Computer Applications | 203MC2T10   | Employability Skills                                                  |
| 1053  | 64                    | Master of Computer Applications | 203MC3E06   | Soft Computing                                                        |
| 1054  | 65                    | Master of Computer Applications | 203MC3E07   | Software Project Management                                           |
| 1055  | 66                    | Master of Computer Applications | 203MC3E08   | Cloud Computing                                                       |
| 1056  | 67                    | Master of Computer Applications | 203MC3E09   | Cloud Computing                                                       |
| 1057  | 68                    | Master of Computer Applications | 203MC3E10   | Cyber Security                                                        |
| 1058  | 69                    | Master of Computer Applications | 203MC3L07   | Machine Learning with Python Lab                                      |
| 1059  | 70                    | Master of Computer Applications | 203MC3L08   | IoT Lab                                                               |
| 1060  | 71                    | Master of Computer Applications | 203MC3L09   | Web Technologies Lab                                                  |
| 1061  | 72                    | Master of Computer Applications | 203MC3P02   | Internship / Industry Oriented Mini Project/ Skill Development Course |
| 1062  | 73                    | Master of Computer Applications | 203MC3T11   | Machine Learning with Python                                          |
| 1063  | 74                    | Master of Computer Applications | 203MC3T12   | Internet of Things                                                    |

| S. No | Program-wise<br>S. No | Program Name                                 | Course Code | Course Name                           |
|-------|-----------------------|----------------------------------------------|-------------|---------------------------------------|
| 1064  | 75                    | Master of Computer Applications              | 203MC3T13   | Web Technologies                      |
| 1065  | 76                    | Master of Computer Applications              | 203MC3T14   | Cryptography and Network Security     |
| 1066  | 77                    | Master of Computer Applications              | 203MC4E11   | Digital Marketing                     |
| 1067  | 78                    | Master of Computer Applications              | 203MC4E12   | Human Resource Management             |
| 1068  | 79                    | Master of Computer Applications              | 203MC4E13   | Deep Learning                         |
| 1069  | 80                    | Master of Computer Applications              | 203MC4E14   | Ad-hoc and Sensor Networks            |
| 1070  | 81                    | Master of Computer Applications              | 203MC4E15   | Network Programming                   |
| 1071  | 82                    | Master of Computer Applications              | 203MC4E16   | Block Chain technologies              |
| 1072  | 83                    | Master of Computer Applications              | 203MC4E17   | Software Testing Methodologies        |
| 1073  | 84                    | Master of Computer Applications              | 203MC4E18   | Big Data Analytics                    |
| 1074  | 85                    | Master of Computer Applications              | 203MC4P03   | Project Work/ Dissertation            |
| 1075  | 86                    | Master of Computer Applications              | 203MC4S01   | Full Stack Technologies               |
| 1076  | 87                    | Master of Computer Applications              | 203MC4S02   | Data Science                          |
| 1077  | 1                     | Integrated Master of Business Administration | 195IM1P01   | Summer Internship (6 Weeks)           |
| 1078  | 2                     | Integrated Master of Business Administration | 195IM1T01   | English Language – I                  |
| 1079  | 3                     | Integrated Master of Business Administration | 195IM1T02   | Business Mathematics and Statistics   |
| 1080  | 4                     | Integrated Master of Business Administration | 195IM1T03   | Fundamentals of Business Organization |
| 1081  | 5                     | Integrated Master of Business Administration | 195IM1T04   | Financial Accounting – I              |
| 1082  | 6                     | Integrated Master of Business Administration | 195IM1T05   | Fundamentals of Computers             |
| 1083  | 7                     | Integrated Master of Business Administration | 195IM2T06   | English Language – II                 |
| 1084  | 8                     | Integrated Master of Business Administration | 195IM2T07   | Business Environment                  |
| 1085  | 9                     | Integrated Master of Business Administration | 195IM2T08   | Managerial Economics                  |
| 1086  | 10                    | Integrated Master of Business Administration | 195IM2T09   | Financial Accounting – II             |
| 1087  | 11                    | Integrated Master of Business Administration | 195IM2T10   | Organizational Communications         |
| 1088  | 12                    | Integrated Master of Business Administration | 195IM3T11   | Principles of Management              |
| 1089  | 13                    | Integrated Master of Business Administration | 195IM3T12   | Cost Accounting                       |
| 1090  | 14                    | Integrated Master of Business Administration | 195IM3T13   | Banking Theory and Practice           |
| 1091  | 15                    | Integrated Master of Business Administration | 195IM3T14   | Business Law                          |
| 1092  | 16                    | Integrated Master of Business Administration | 195IM3T15   | Entrepreneurship Development          |

| S. No | Program-wise<br>S. No | Program Name                                   | Course Code | Course Name                           |
|-------|-----------------------|------------------------------------------------|-------------|---------------------------------------|
| 1093  | 17                    | Integrated Master of Business Administration   | 195IM4T16   | Organizational Behavior               |
| 1094  | 18                    | Integrated Master of Business Administration   | 195IM4T17   | Management Accounting                 |
| 1095  | 19                    | Integrated Master of Business Administration   | 195IM4T18   | Company Law                           |
| 1096  | 20                    | Integrated Master of Business Administration   | 195IM4T19   | Elements of Direct and Indirect Taxes |
| 1097  | 21                    | Integrated Master of Business Administration   | 195IM4T20   | Management Information Systems        |
| 1098  | 22                    | Integrated Master of Business Administration   | 195IM5T21   | Financial Management                  |
| 1099  | 23                    | Integrated Master of Business Administration   | 195IM5T22   | Marketing Management                  |
| 1100  | 24                    | Integrated Master of Business Administration * | 195IM5T23   | Human Resource Management             |
| 1101  | 25                    | Integrated Master of Business Administration   | 195IM5T24   | Operations Management                 |
| 1102  | 26                    | Integrated Master of Business Administration   | 195IM5T25   | Business Research Methodology         |
| 1103  | 27                    | Integrated Master of Business Administration   | 195IM6T26   | Operations Research                   |
| 1104  | 28                    | Integrated Master of Business Administration   | 195IM6T27   | International Business                |
| 1105  | 29                    | Integrated Master of Business Administration   | 195IM6T28   | Strategic Management                  |
| 1106  | 30                    | Integrated Master of Business Administration   | 195IM6T29   | Decision Support Systems              |

*Signature*

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