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| 1.2 ACADEMIC FLEXIBILITY | | | |
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| Metric No | Description | Parameters | Page. No. |
| 1.2.1 QnM | Percentage of new courses introduced out of the total number of courses across all programmes offered during the last five years | List of new courses introduced in the Academic Year 2022-23 | 3 |
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Principal

Principal
Sasi Institute of Technology & Engineering (A)
Tadepalligudem, W.G.Dt., A.P.



SASI INSTITUTE OF TECHNOLOGY & ENGINEERING (A)

KADAKATLA, TADEPALLIGUDEM-534101, W.G. Dt., (A.P)

Percentage of New Courses Introduced Academic Year Wise

| S.No. | Academic Year | Total no of Courses | No of New Courses Introduced | Percentage % |
|--------------|----------------------|----------------------------|-------------------------------------|---------------------|
| 1. | 2022-23 | 623 | 318 | 51.04 |
| 2. | 2021-22 | 460 | 301 | 65.43 |
| 3. | 2020-21 | 173 | 137 | 79.19 |
| 4. | 2019-20 | 150 | 140 | 93.33 |
| 5. | 2018-19 | 227 | 171 | 75.33 |
| Total | | 1633 | 1067 | 65.33 |


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List of new courses introduced in the programs in the Academic Year 2022-23

| S. No. | Name of the Program | Course Code | Name of the Course |
|--------|---------------------------|-------------|--|
| 1. | B.Tech.-Civil Engineering | 21CECET3040 | Building Materials, Construction & Concrete Technology |
| 2. | B.Tech.-Civil Engineering | 21CECEN3100 | Essence of Indian Traditional Knowledge Mandatory course |
| 3. | B.Tech.-Civil Engineering | 21CEMAT4010 | Engineering Mathematics - IV |
| 4. | B.Tech.-Civil Engineering | 21CECET4020 | Structural Analysis |
| 5. | B.Tech.-Civil Engineering | 21CECEL4080 | Building Planning & Drawing |
| 6. | B.Tech.-Civil Engineering | 21CECES4090 | Advanced Surveying (SOC) |
| 7. | B.Tech.-Civil Engineering | 21CECEHX0XA | Finite Element Methods |
| 8. | B.Tech.-Civil Engineering | 21CECEHX0XB | Earthquake Resistant Design of Structures |
| 9. | B.Tech.-Civil Engineering | 21CECEHX0XC | Rock Mechanics |
| 10. | B.Tech.-Civil Engineering | 21CECEHX0XD | Highway Engineering |
| 11. | B.Tech.-Civil Engineering | 21CECEHX0XE | Pavement Analysis design |
| 12. | B.Tech.-Civil Engineering | 21CECEHX0XF | Traffic Engineering and Management |
| 13. | B.Tech.-Civil Engineering | 21CECEHX0XG | Environmental Laws and Policy |
| 14. | B.Tech.-Civil Engineering | 21CECEHX0XH | Environmental Change and Sustainable Development |
| 15. | B.Tech.-Civil Engineering | 21CECEHX0XI | Physico-Chemical Processes for Water and Wastewater Treatment |
| 16. | B.Tech.-Civil Engineering | 21MEMEMX0XA | Building materials |
| 17. | B.Tech.-Civil Engineering | 21MEMEMX0XB | Solid Waste & Hazardous Waste Management |
| 18. | B.Tech.-Civil Engineering | 21MEMEMX0XC | Traffic engineering |
| 19. | B.Tech.-Civil Engineering | 21MEMEMX0XD | Ground Improvement Techniques |
| 20. | B.Tech.-Civil Engineering | 18CEAHS5090 | Soft Skills & Aptitude Builder - 1 |

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| 21. | B.Tech.-Civil Engineering | 18CEAHS6090 | Soft Skills & Aptitude Builder - 2 |
| 22. | B.Tech.-Electrical & Electronics Engineering | 21EEEEES3090 | Electrical Wiring & Installation |
| 23. | B.Tech.-Electrical & Electronics Engineering | 21EEEEES4090 | Design of Electrical Circuits using Engineering software tools |
| 24. | B.Tech.-Electrical & Electronics Engineering | 21EEEEH410A | Electrical Wiring, Estimation and Costing |
| 25. | B.Tech.-Electrical & Electronics Engineering | 21EEEEH410B | SCADA Energy Management Systems |
| 26. | B.Tech.-Electrical & Electronics Engineering | 21EEEEH410C | Linear IC Applications |
| 27. | B.Tech.-Electrical & Electronics Engineering | 21EEEEH410D | Renewable Energy Systems |
| 28. | B.Tech.-Electrical & Electronics Engineering | 21XXEEM410A | Fundamental of Electrical Circuit Theory |
| 29. | B.Tech.-Electrical & Electronics Engineering | 21XXEEM410B | Fundamental of EMF Theory |
| 30. | B.Tech.-Electrical & Electronics Engineering | 21XXEEM410C | Fundamental of Control Systems |
| 31. | B.Tech.-Mechanical Engineering | 21CMMAT3010 | Engineering Mathematics -III (Vector Calculus and Complex Analysis) |
| 32. | B.Tech.-Mechanical Engineering | 21MEMET3020 | Materials Engineering |
| 33. | B.Tech.-Mechanical Engineering | 21MEMET3030 | Mechanics of Solids |
| 34. | B.Tech.-Mechanical Engineering | 21MEMET3040 | Thermodynamics |
| 35. | B.Tech.-Mechanical Engineering | 21MEMET3050 | Fluid Mechanics and Fluid Machines |
| 36. | B.Tech.-Mechanical Engineering | 21MEMEL3060 | Mechanics of Solids & Materials Lab |
| 37. | B.Tech.-Mechanical Engineering | 21MEMEL3070 | Fluid Mechanics and Fluid Machine s Lab |
| 38. | B.Tech.-Mechanical Engineering | 21MEMES3080 | Computer Aided Engineering Drawing and Drafting (CAEDP) |
| 39. | B.Tech.-Mechanical Engineering | 21MEECM3090 | Basic Electronics Engineering |
| 40. | B.Tech.-Mechanical Engineering | 21MEMAT4010 | Engineering Mathematics –IV (Fourier series, Applications of PDE and Probability & Statistics) |
| 41. | B.Tech.-Mechanical Engineering | 21MEMET4020 | Applied Thermodynamics |
| 42. | B.Tech.-Mechanical Engineering | 21MEMET4030 | Design of Machine Elements -I |
| 43. | B.Tech.-Mechanical Engineering | 21MEMET4040 | Production Technology |
| 44. | B.Tech.-Mechanical Engineering | 21MEMET4050 | Kinematics of Machinery |
| 45. | B.Tech.-Mechanical Engineering | 21MEMST4060 | Engineering Economics and Financial Management |

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| 46. | B.Tech.-Mechanical Engineering | 21MEMEL4070 | Thermal Engineering Lab |
| 47. | B.Tech.-Mechanical Engineering | 21MEMEL4080 | Production Technology Lab |
| 48. | B.Tech.-Mechanical Engineering | 21MEMES4090 | Computer Aided Three-Dimensional Interactive Application (CATIA) |
| 49. | B.Tech.-Mechanical Engineering | 18MEXXS5090 | Soft Skills & Aptitude Builder - 1 |
| 50. | B.Tech.-Mechanical Engineering | 18MEXXS6090 | Soft Skills & Aptitude Builder - 2 |
| 51. | M.Tech.-CAD/CAM | 21MECC301A | Non-destructive Evaluation |
| 52. | M.Tech.-CAD/CAM | 21MECC301B | Quality Engineering |
| 53. | M.Tech.-CAD/CAM | 21MECC301C | Green Manufacturing |
| 54. | M.Tech.-CAD/CAM | 21MECC301D | MOOCS/ NPTEL * |
| 55. | M.Tech.-CAD/CAM | 21MECC302A | Nano Technology |
| 56. | M.Tech.-CAD/CAM | 21MECC302B | Optimization Techniques |
| 57. | M.Tech.-CAD/CAM | 21MECC302C | Product Design and Manufacturing |
| 58. | M.Tech.-CAD/CAM | 21MECC303A | Project Work Phase-I |
| 59. | M.Tech.-CAD/CAM | 21MECC401A | Project Phase-II |
| 60. | B.Tech.-Electronics and Communication Engineering | 21ECMAT3010 | Engineering Mathematics - III |
| 61. | B.Tech.-Electronics and Communication Engineering | 21ECMAT3040 | Digital System Design |
| 62. | B.Tech.-Electronics and Communication Engineering | 21ECECS3090 | Data Science using Python |
| 63. | B.Tech.-Electronics and Communication Engineering | 21ECECT4040 | Electronic Circuit Analysis |
| 64. | B.Tech.-Electronics and Communication Engineering | 21ECECT4050 | Control Systems |
| 65. | B.Tech.-Electronics and Communication Engineering | 21ECECL4060 | Principles of Communication Theory Lab |
| 66. | B.Tech.-Electronics and Communication Engineering | 21ECECL4070 | Electronic Circuit Analysis Lab |
| 67. | B.Tech.-Electronics and Communication Engineering | 21ECECL4080 | Signals & Systems Lab |
| 68. | B.Tech.-Electronics and Communication Engineering | 21MRECTXXXA | Electronics Devices and Basic Circuits |
| 69. | B.Tech.-Electronics and Communication Engineering | 21MRECTXXXB | Digital Electronics |
| 70. | B.Tech.-Electronics and Communication Engineering | 21MRECTXXXC | Principles of Communication Systems |
| 71. | B.Tech.-Electronics and Communication Engineering | 21MRECTXXXD | Signal Analysis |
| 72. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXA | Embedded System Design |
| 73. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXB | Advanced Embedded Controllers |
| 74. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXC | Parallel Processing |
| 75. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXD | Embedded Systems for Biomedical applications |

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| 76. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXE | Internet of Things Fundamentals |
| 77. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXF | Communication Protocols for Internet of Things |
| 78. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXG | Industrial Internet of Things |
| 79. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXH | Sensor Networks and Internet of Things |
| 80. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXI | VLSI Technology and Design |
| 81. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXJ | CMOS Analog IC Design |
| 82. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXK | CMOS Digital IC design |
| 83. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXL | Design for Testability |
| 84. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXM | System on Chip |
| 85. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXN | Programmable Logic Devices and ASIC |
| 86. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXO | Scripting Language |
| 87. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXP | Low Power VLSI Design |
| 88. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXQ | Wireless Sensor Networks |
| 89. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXR | Software defined radio |
| 90. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXS | Data Communications & Computer Networks |
| 91. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXT | Cognitive radio |
| 92. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXU | 5G Communications |
| 93. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXV | Satellite communication |
| 94. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXW | Optical Communication |
| 95. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXX | Global navigational satellite systems |
| 96. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXY | Speech Signal Processing |
| 97. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXZ | Video Signal Processing |
| 98. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXA1 | Adaptive Signal Processing |
| 99. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXB1 | Bio- Medical Signal Processing |
| 100. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXC1 | DSP Processors and Architectures |
| 101. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXD1 | Wavelet Theory |
| 102. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXE1 | Multirate Systems And Filter Banks |
| 103. | B.Tech.-Electronics and Communication Engineering | 21ECECHXXXF1 | Mathematical methods for signal processing |
| 104. | B.Tech.-Electronics and Communication Engineering | 18ECECT6010 | VLSI Design |
| 105. | B.Tech.-Electronics and Communication Engineering | 18ECECP603B M | Design for Testability |
| 106. | B.Tech.-Electronics and Communication Engineering | 18ECECP604B M | Internet Protocols |

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| 107. | B.Tech.-Electronics and Communication Engineering | 18XXECO0XB M | HDL Programming for IC Design |
| 108. | B.Tech.-Electronics and Communication Engineering | 18XXECO0XC M | Principles of Communication Systems |
| 109. | B.Tech.-Electronics and Communication Engineering | 18XXECO0XD M | Transducers and Sensors |
| 110. | B.Tech.-Electronics and Communication Engineering | 18XXECO0XE M | Fundamentals of Microprocessors and Microcontrollers |
| 111. | B.Tech.-Electronics and Communication Engineering | 18XXECO0XH M | Signals and Systems |
| 112. | B.Tech.-Electronics and Communication Engineering | 18ECECL6070 M | VLSI Design Lab |
| 113. | M.Tech-Signal Process | 21ECSP301A | Mobile computing technologies |
| 114. | M.Tech-Signal Process | 21ECSP301B | Soft Computing Techniques |
| 115. | M.Tech-Signal Process | 21ECSP301C | Pattern Recognition & Machine Learning |
| 116. | M.Tech-Signal Process | 21ECSP302A | Optimization Techniques |
| 117. | M.Tech-Signal Process | 21ECSP302B | Modeling and Simulation Techniques |
| 118. | M.Tech-Signal Process | 21ECSP302C | Artificial Intelligence |
| 119. | M.Tech.-VLSI | 21ECVE301A | VLSI Technology |
| 120. | M.Tech.-VLSI | 21ECVE301C | Programming Languages for Embedded Systems |
| 121. | M.Tech.-VLSI | 21ECVE302A | Optimization Techniques |
| 122. | M.Tech.-VLSI | 21ECVE302B | Modeling and Simulation Techniques |
| 123. | M.Tech.-VLSI | 21ECVE302C | Artificial Intelligence |
| 124. | B.Tech.-Computer Science & Engineering | 21CMMAT3010 M | Probability Distributions & Statistical Methods |
| 125. | B.Tech.-Computer Science & Engineering | 21CSECT3020 | Analog & Digital Electronics |
| 126. | B.Tech.-Computer Science & Engineering | 21CSCST3030 | Computer Organization |
| 127. | B.Tech.-Computer Science & Engineering | 21CSCST3040 | Java Programming |
| 128. | B.Tech.-Computer Science & Engineering | 21CSCST3050 | Data Base Management Systems |
| 129. | B.Tech.-Computer Science & Engineering | 21CSCSL3060 | Analog & Digital Electronics Lab |
| 130. | B.Tech.-Computer Science & Engineering | 21CSCSL3070 | Java Programming Lab |
| 131. | B.Tech.-Computer Science & Engineering | 21CSCSL3080 | Data Base Management Systems Lab |
| 132. | B.Tech.-Computer Science & Engineering | 21CSCSS3090 | Data Science Using Python |
| 133. | B.Tech.-Computer Science & Engineering | 21CMBIN3100 | Biology for Engineers |
| 134. | B.Tech.-Computer Science & Engineering | 21CSMAT4010 | Discrete Mathematics |
| 135. | B.Tech.-Computer Science & Engineering | 21CMMST4020 | Engineering Economics & Financial Management |

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| 136. | B.Tech.-Computer Science & Engineering | 21CSCST4030 | Operating systems |
| 137. | B.Tech.-Computer Science & Engineering | 21CSCST4040 | Design and Analysis of Algorithms |
| 138. | B.Tech.-Computer Science & Engineering | 21CSCST4050 | Software Engineering |
| 139. | B.Tech.-Computer Science & Engineering | 21CSCSL4060 | Operating systems Lab |
| 140. | B.Tech.-Computer Science & Engineering | 21CSCSL4070 | Design and Analysis of Algorithms Lab |
| 141. | B.Tech.-Computer Science & Engineering | 21CSSCL4080 | Software Engineering Lab |
| 142. | B.Tech.-Computer Science & Engineering | 21CSCS4090 | MEAN Stack Technologies |
| 143. | M.Tech.-Computer Science and Engineering | 21CSCS301A | Deep Learning |
| 144. | M.Tech.-Computer Science and Engineering | 21CSCS301B | Social Network Analysis |
| 145. | M.Tech.-Computer Science and Engineering | 21CSCS301C | MOOCs-1 |
| 146. | M.Tech.-Computer Science and Engineering | 21XXXX302N | MOOCs-2 |
| 147. | M.Tech.-Computer Science and Engineering | 21CSCS303 | Dissertation-I/ Industrial Project # |
| 148. | M.Tech.-Computer Science and Engineering | 21CSCS401 | Dissertation-II/ Industrial Project # |
| 149. | M.Tech.-Computer Science and Engineering | 21CSXXXX1 | Python Programming |
| 150. | M.Tech.-Computer Science and Engineering | 21CSXXXX2 | Principles of Cyber Security |
| 151. | M.Tech.-Computer Science and Engineering | 21CSXXXX3 | Internet of Things |
| 152. | M.Tech.-Computer Science and Engineering | 21CSXXXX4 | Machine Learning |
| 153. | M.Tech.-Computer Science and Engineering | 21CSXXXX5 | Digital forensics |
| 154. | M.Tech.-Computer Science and Engineering | 21CSXXXX6 | Next Generation Databases |
| 155. | B.Tech.- Information Technology | 18ITITP504B | Artificial Intelligence |
| 156. | B.Tech.- Information Technology | 18XXITOXXXXA | Internet of Things |
| 157. | B.Tech.- Information Technology | 18XXITOXXXXB | Block Chain |
| 158. | B.Tech.- Information Technology | 18XXITOXXXXC | Quantum Computing |
| 159. | B.Tech.- Information Technology | 18XXITOXXXXD | Virtual Reality |
| 160. | B.Tech.- Information Technology | 18XXITOXXXXE | Data Structures through C |
| 161. | B.Tech.- Information Technology | 18XXITOXXXXF | Designing Database Management Systems |
| 162. | B.Tech.- Information Technology | 18XXITOXXXXG | Operating Systems Concepts |
| 163. | B.Tech.- Information Technology | 18XXITOXXXXH | R Programming |
| 164. | B.Tech.- Information Technology | 18XXITOXXXXI | Python Programming |
| 165. | B.Tech.- Information Technology | 18XXITOXXXXJ | Java Programming |
| 166. | B.Tech.- Information Technology | 18XXITOXXXXK | App Technologies |

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| 167. | B.Tech.- Information Technology | 18XXITOXXXL | Web Technologies |
| 168. | B.Tech.- Information Technology | 18XXITOXXXM | Artificial Intelligence |
| 169. | B.Tech.- Information Technology | 18ITITT6020 M | Data Warehousing and Data Mining |
| 170. | B.Tech.- Information Technology | 18ITITL6080 | Data Mining using Python Lab |
| 171. | B.Tech.- Information Technology | 21ITITT4040 | Design and Analysis of Algorithms |
| 172. | B.Tech.- Information Technology | 21ITITL4070 | Design and Analysis of Algorithms Lab |
| 173. | B.Tech.- Information Technology | 21ITITS4090 | MEAN Stack Technologies |
| 174. | B.Tech.- Information Technology | 21XXITM4010 | Data Structures and Algorithms |
| 175. | B.Tech.- Information Technology | 21XXITM5010 | Operating Systems |
| 176. | B.Tech.- Information Technology | 21XXITM6010 | Database Management Systems |
| 177. | B.Tech.- Information Technology | 21XXITM7010 | Software Engineering |
| 178. | B.Tech.- Information Technology | 21ITITH1XXXA | Mathematics for Machine Learning |
| 179. | B.Tech.- Information Technology | 21ITITH1XXXB | Text Mining and Time Series Analysis |
| 180. | B.Tech.- Information Technology | 21ITITH1XXXC | Natural Language Processing |
| 181. | B.Tech.- Information Technology | 21ITITH1XXXD | Reinforcement Learning |
| 182. | B.Tech.- Information Technology | 21ITITH2XXXE | Internet of Things |
| 183. | B.Tech.- Information Technology | 21ITITH2XXXF | Data Communications and Information Coding Theory |
| 184. | B.Tech.- Information Technology | 21ITITH2XXXG | Service Oriented Architectures |
| 185. | B.Tech.- Information Technology | 21ITITH2XXXH | Design of Secure Protocols |
| 186. | B.Tech.- Information Technology | 21ITITH3XXXI | Principles of Cyber Security |
| 187. | B.Tech.- Information Technology | 21ITITH3XXXJ | Cloud and IoT Security |
| 188. | B.Tech.- Information Technology | 21ITITH3XXXK | Web Security |
| 189. | B.Tech.- Information Technology | 21ITITH3XXXL | Block Chain Architecture Design and Use cases |
| 190. | B.Tech.- Information Technology | 21ITITH4XXXM | Data Visualization |
| 191. | B.Tech.- Information Technology | 21ITITH4XXXN | Statistical Foundations for Data Science |
| 192. | B.Tech.- Information Technology | 21ITITH4XXXO | Mining Massive Data Sets |
| 193. | B.Tech.- Information Technology | 21ITITH4XXXP | Medical Image Data Processing |
| 194. | B.Tech.-Computer Science and Technology | 18CMMST5010 | Management Science |
| 195. | B.Tech.-Computer Science and Technology | 18CTCTT5020 | Database Management Systems |
| 196. | B.Tech.-Computer Science and Technology | 18CTCTT5030 | Operating Systems |

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| 197. | B.Tech.-Computer Science and Technology | 18CTCTP504A | Object Oriented Analysis & Design through UML |
| 198. | B.Tech.-Computer Science and Technology | 18CTCTP504B | Mobile Application Development |
| 199. | B.Tech.-Computer Science and Technology | 18CTCTP504C | Machine Learning |
| 200. | B.Tech.-Computer Science and Technology | 18XXCTOX0XA | Internet of Things |
| 201. | B.Tech.-Computer Science and Technology | 18XXCTOX0XB | Block Chain |
| 202. | B.Tech.-Computer Science and Technology | 18XXCTOX0XC | Quantum Computing |
| 203. | B.Tech.-Computer Science and Technology | 18CTCTL5060 | Database Management Systems Lab |
| 204. | B.Tech.-Computer Science and Technology | 18CTCTL5070 | Operating Systems Lab |
| 205. | B.Tech.-Computer Science and Technology | 18CTCTL5090 | Soft Skills & Aptitude Builder - 1 |
| 206. | B.Tech.-Computer Science and Technology | 18CMBIN5100 | Biology for Engineers |
| 207. | B.Tech.-Computer Science and Technology | 18CTCTT6010 | Data Warehousing and Data Mining |
| 208. | B.Tech.-Computer Science and Technology | 18CTCTT6020 | Computer Networks |
| 209. | B.Tech.-Computer Science and Technology | 18CTCTT6030 | Software Engineering |
| 210. | B.Tech.-Computer Science and Technology | 18CTCTP604D | Software Testing |
| 211. | B.Tech.-Computer Science and Technology | 18CTCTP604E | Software Project Management |
| 212. | B.Tech.-Computer Science and Technology | 18CTCTP604F | Artificial Intelligence |
| 213. | B.Tech.-Computer Science and Technology | 18XXCTOX0XD | Virtual Reality |
| 214. | B.Tech.-Computer Science and Technology | 18XXCTOX0XE | Data Structures through C |
| 215. | B.Tech.-Computer Science and Technology | 18XXCTOX0XF | Designing Database Management Systems |
| 216. | B.Tech.-Computer Science and Technology | 18CMMST6060 | Engineering Economics & Financial Management |
| 217. | B.Tech.-Computer Science and Technology | 18CTCTL6070 | Computer Networks Lab |
| 218. | B.Tech.-Computer Science and Technology | 18CTCTL6080 | Data Warehousing and Data Mining Lab |
| 219. | B.Tech.-Computer Science and Technology | 18CMMAT6090 | Soft Skills & Aptitude Builder - 2 |
| 220. | B.Tech.-Computer Science and Technology | 21CTECT3020 | Analog & Digital Electronics |
| 221. | B.Tech.-Computer Science and Technology | 21CTCTT3050 | Data Base Management Systems |
| 222. | B.Tech.-Computer Science and Technology | 21CTCTL3080 | Data Base Management Systems Lab |
| 223. | B.Tech.-Computer Science and Technology | 21CTCTS3090 | Data Science Using Python |
| 224. | B.Tech.-Computer Science and Technology | 21CTMSN3100 | Biology for Engineers |
| 225. | B.Tech.-Computer Science and Technology | 21CTMST4020 | Engineering Economics & Financial |

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| | | | Management |
| 226. | B.Tech.-Computer Science and Technology | 21CTCTT4030 | Operating systems |
| 227. | B.Tech.-Computer Science and Technology | 21CTCTT4040 | Design and Analysis of Algorithms |
| 228. | B.Tech.-Computer Science and Technology | 21CTCTT4050 | Software Engineering |
| 229. | B.Tech.-Computer Science and Technology | 21CTCTL4060 | Operating systems Lab |
| 230. | B.Tech.-Computer Science and Technology | 21CTCTL4070 | Design and Analysis of Algorithms Lab |
| 231. | B.Tech.-Computer Science and Technology | 21CTCTL4080 | Software Engineering Lab |
| 232. | B.Tech.-Computer Science and Technology | 21CTCTS4090 | MEAN STACK Technologies |
| 233. | B.Tech.-Computer Science and Technology | 21XXCTMX2A | Operating Systems |
| 234. | B.Tech.-Computer Science and Technology | 21XXCTMX12 | Data Structures and Algorithms |
| 235. | B.Tech.-Computer Science and Technology | 21XXCTMX13 | Software Engineering |
| 236. | B.Tech.-Computer Science and Technology | 21XXCTMX14 | Computer Networks |
| 237. | B.Tech.-Computer Science and Technology | 21XXCTMX15 | Database Management Systems |
| 238. | B.Tech.-Computer Science and Technology | 21XXCTMX21 | Computational Thinking |
| 239. | B.Tech.-Computer Science and Technology | 21XXCTMX22 | Object Oriented Programming through JAVA |
| 240. | B.Tech.-Computer Science and Technology | 21XXCTMX23 | Artificial Intelligence |
| 241. | B.Tech.-Computer Science and Technology | 21XXCTMX24 | Unix and Shell Programming |
| 242. | B.Tech.-Computer Science and Technology | 21XXCTMX2B | Cloud Computing |
| 243. | B.Tech.-Electronics and Communication Technology | 18ETETT5010 | Management science |
| 244. | B.Tech.-Electronics and Communication Technology | 18ETETT5020 | Control Systems |
| 245. | B.Tech.-Electronics and Communication Technology | 18ETETT5030 | Telecommunications and Switching Networks |
| 246. | B.Tech.-Electronics and Communication Technology | 18ETETT5040 | Microprocessors and Micro Controllers |
| 247. | B.Tech.-Electronics and Communication Technology | 18ETETT5050 | Digital Signal Processing |
| 248. | B.Tech.-Electronics and Communication Technology | 18ETETL5080 | Digital Signal Processing Lab |
| 249. | B.Tech.-Electronics and Communication Technology | 18CMAHS5090 | Soft Skills & Aptitude Builder - 1 |
| 250. | B.Tech.-Electronics and Communication Technology | 18ETETN50A0 | Biology for Engineers |
| 251. | B.Tech.-Electronics and Communication Technology | 18ETETP506A | Radiation Systems |
| 252. | B.Tech.-Electronics and Communication Technology | 18ETETP506B | Digital Design Through Verilog |
| 253. | B.Tech.-Electronics and Communication Technology | 18ETETP506C | IoT Fundamentals |
| 254. | B.Tech.-Electronics and Communication Technology | 18ETETP506D | Spread Spectrum Techniques |
| 255. | B.Tech.-Electronics and Communication Technology | 18ETETT6010 | Engineering Economics and Financial |

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| | | | Management |
| 256. | B.Tech.-Electronics and Communication Technology | 18ETETT6020 | VLSI Design |
| 257. | B.Tech.-Electronics and Communication Technology | 18CMMST6030 | Computer Networks |
| 258. | B.Tech.-Electronics and Communication Technology | 18ETETL6070 | Computer Networks Lab |
| 259. | B.Tech.-Electronics and Communication Technology | 18ETETL6080 | VLSI Design Lab |
| 260. | B.Tech.-Electronics and Communication Technology | 18CMAHS6090 | Soft Skills & Aptitude Builder - 2 |
| 261. | B.Tech.-Electronics and Communication Technology | 18ETETP604A | Micro Wave and Optical Communications |
| 262. | B.Tech.-Electronics and Communication Technology | 18ETETP604B | Design of Fault Tolerant Systems |
| 263. | B.Tech.-Electronics and Communication Technology | 18ETETP604C | Embedded System Design |
| 264. | B.Tech.-Electronics and Communication Technology | 18ETETP604D | Digital Image and Video Processing |
| 265. | B.Tech.-Electronics and Communication Technology | 18ETETOXXXA | Signals and Systems |
| 266. | B.Tech.-Electronics and Communication Technology | 18ETETOXXXB | Principles of Signal Processing |
| 267. | B.Tech.-Electronics and Communication Technology | 18ETETOXXXC | Consumer Electronics |
| 268. | B.Tech.-Electronics and Communication Technology | 18ETETOXXXD | Transducers and Sensors |
| 269. | B.Tech.-Electronics and Communication Technology | 18ETETOXXXE | IOT and Applications |
| 270. | B.Tech.-Electronics and Communication Technology | 18ETETOXXXF | IC Applications |
| 271. | B.Tech.-Electronics and Communication Technology | 18ETETOXXXG | Principles of Communication Systems |
| 272. | B.Tech.-Electronics and Communication Technology | 18ETETOXXXH | Data Communications |
| 273. | B.Tech.-Electronics and Communication Technology | 18ETETOXXXI | Digital Logic design |
| 274. | B.Tech.-Electronics and Communication Technology | 18ETETOXXXJ | Remote Sensing and GIS |
| 275. | B.Tech.-Electronics and Communication Technology | 21ETETS3090 | Skill Oriented Course –I |
| 276. | B.Tech.-Electronics and Communication Technology | 21ETETT4040 | Electronic Circuit Analysis |
| 277. | B.Tech.-Electronics and Communication Technology | 21ETETL4060 | Principles of Communication Theory Lab |
| 278. | B.Tech.-Electronics and Communication Technology | 21ETETL4070 | Electronic Circuit Analysis Lab |
| 279. | B.Tech.-Electronics and Communication Technology | 21ECECS4090 | Skill Oriented Course-2 |
| 280. | B.Tech.-Electronics and Communication Technology | 21ETETHXXA | Cellular and Mobile Communication |
| 281. | B.Tech.-Electronics and Communication Technology | 21ETETHXXB | Switching Theory and Logic Design |
| 282. | B.Tech.-Electronics and Communication Technology | 21ETETHXXC | Digital Data Communications |
| 283. | B.Tech.-Electronics and Communication Technology | 21ETETHXXD | Signals and systems |
| 284. | B.Tech.-Electronics and Communication Technology | 21ETETHXXE | Electromagnetic Waves and Radiating Systems |
| 285. | B.Tech.-Electronics and Communication Technology | 21ETETHXXF | Antenna Theory |

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|------|--|-------------|---|
| 286. | B.Tech.-Electronics and Communication Technology | 21ETETHXXG | Linear IC Applications |
| 287. | B.Tech.-Electronics and Communication Technology | 21ETETHXXH | Digital Signal processing |
| 288. | B.Tech.-Electronics and Communication Technology | 21ETETHXXI | Analog Communication |
| 289. | B.Tech.-Electronics and Communication Technology | 21ETETHXXJ | Microwave and Radar engineering |
| 290. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMMAT3010 | Probability and statistics |
| 291. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAMT3020 | Foundations of Artificial Intelligence |
| 292. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAMT3030 | Database Management Systems |
| 293. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAMT3040 | Operating Systems |
| 294. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAMT3050 | Analog & Digital Electronics |
| 295. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAML3060 | Artificial Intelligence Lab |
| 296. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAML3070 | Operating Systems Lab |
| 297. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAML3080 | Database Management Systems Lab |
| 298. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAMC3090 | Python for Data Science |
| 299. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMBIN3100 | MC: Biology for Engineers |
| 300. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMMAT4010 | Discrete Mathematics |
| 301. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAMT4020 | Introduction to Machine Learning |
| 302. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAMT4030 | Design and Analysis of Algorithms |
| 303. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAMT4040 | Java Programming |
| 304. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAMT4050 | Optimization Techniques for AI |
| 305. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAML4060 | Machine Learning Lab |
| 306. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAML4070 | Design and Analysis of Algorithms Lab |
| 307. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAML4080 | Java Programming Lab |
| 308. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAMC4090 | SOC: Fundamentals of Programming and Simulation using MATLAB for AI |
| 309. | B.Tech.-Artificial Intelligence and Machine Learning | 21YYAMMXXXA | Soft Computing |
| 310. | B.Tech.-Artificial Intelligence and Machine Learning | 21YYAMMXXXB | Introduction to AI & Machine Learning |
| 311. | B.Tech.-Artificial Intelligence and Machine Learning | 21YYAMMXXXC | Introduction to Data Science |
| 312. | B.Tech.-Artificial Intelligence and Machine Learning | 21YYAMMXXXD | Deep Learning |
| 313. | B.Tech.-Artificial Intelligence and Machine Learning | 21YYAMMXXXE | IOT |
| 314. | B.Tech.-Artificial Intelligence and Machine Learning | 21YYAMMXXXF | Expert Systems |
| 315. | PG-Management Science | 21MS13F6 | Project Management |

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|------|-----------------------|----------|----------------------------------|
| 316. | PG-Management Science | 21MS13M7 | Digital & Social Media Marketing |
| 317. | PG-Management Science | 21MS13B8 | Startup Business Plan |
| 318. | PG-Management Science | 21MS14M6 | Rural Marketing |


Principal

Principal
Sasi Institute of Technology & Engineering (A)
Tadepalligudem, W.G.Dt., A.P.



SASI INSTITUTE OF TECHNOLOGY & ENGINEERING (A)

KADAKATLA, TADEPALLIGUDEM-534101, W.G. Dt., (A.P)

List of new courses introduced in the programs in the Academic Year 2021-22

| S.No. | Name of the Program | Course Code | Name of the Course |
|-------|---------------------------|-------------|---|
| 1. | B.Tech.-Civil Engineering | 21CMCST2040 | Python Programming |
| 2. | B.Tech.-Civil Engineering | 18CECET7010 | Contracts, Specifications & Project Management |
| 3. | B.Tech.-Civil Engineering | 18CECET7020 | Design of Steel Structures |
| 4. | B.Tech.-Civil Engineering | 18CECEP704A | Transport of water and Waste Water |
| 5. | B.Tech.-Civil Engineering | 18CECEP704B | Advanced Concrete Technology |
| 6. | B.Tech.-Civil Engineering | 18CECEP704C | Surface Hydrology |
| 7. | B.Tech.-Civil Engineering | 18CECEP704D | Offshore Engineering |
| 8. | B.Tech.-Civil Engineering | 18CECEP705A | Advanced Structural Analysis |
| 9. | B.Tech.-Civil Engineering | 18CECEP705B | Advanced Transportation Engineering |
| 10. | B.Tech.-Civil Engineering | 18CECEP705C | Earth Retaining Structures |
| 11. | B.Tech.-Civil Engineering | 18CECEP705D | Rural Water Supply And Onsite Sanitation Systems |
| 12. | B.Tech.-Civil Engineering | 18CECEL7060 | Structural Design and Drawing Lab |
| 13. | B.Tech.-Civil Engineering | 18CECER7070 | Project phase-I |
| 14. | B.Tech.-Civil Engineering | 18CECEC7080 | Internship with seminar |
| 15. | B.Tech.-Civil Engineering | 18CECEP801A | Intelligent Transportation system |
| 16. | B.Tech.-Civil Engineering | 18CECEP801B | Ground Improvement Techniques |
| 17. | B.Tech.-Civil Engineering | 18CECEP801C | Environmental Impact Assessment and Environment Management Planning |
| 18. | B.Tech.-Civil Engineering | 18CECEP801D | Engineering with Geo-Synthetics |
| 19. | B.Tech.-Civil Engineering | 18CECEP802A | Pre-stressed Concrete |
| 20. | B.Tech.-Civil Engineering | 18CECEP802B | Advanced Foundation Engineering |

| S.No. | Name of the Program | Course Code | Name of the Course |
|--------------|---|--------------------|--|
| 21. | B.Tech.-Civil Engineering | 18CECEP802C | Ground water Development& Management |
| 22. | B.Tech.-Civil Engineering | 18CECEP802D | Solid and hazardous waste management |
| 23. | B.Tech.-Civil Engineering | 18CECEP803A | Air and Noise pollution and control |
| 24. | B.Tech.-Civil Engineering | 18CECEP803B | Soil Dynamics and Machine Foundations |
| 25. | B.Tech.-Civil Engineering | 18CECEP803C | Bridge engineering |
| 26. | B.Tech.-Civil Engineering | 18CECEP803D | Contracts management |
| 27. | B.Tech.-Civil Engineering | 18CECEP804A | Repairs and Rehabilitation of Structures |
| 28. | B.Tech.-Civil Engineering | 18CECEP804B | Wood Structures |
| 29. | B.Tech.-Civil Engineering | 18CECEP804C | Transportation Economics |
| 30. | B.Tech.-Civil Engineering | 18CECEP804D | Sustainable Construction Methods |
| 31. | B.Tech.-Civil Engineering | 18CECER8050 | Project phase-II |
| 32. | B.Tech.-Civil Engineering | 18CECER8060 | Co Curricular and Extra Curricular Activity |
| 33. | B.Tech.- Electronics & Electrical Engineering | 18EEEEET7010 | Power System Protection |
| 34. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEL7060 | Electronics Design Lab |
| 35. | B.Tech.- Electronics & Electrical Engineering | 18EEEEER7070 | Project Phase-I |
| 36. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEC7080 | Industry Internship (During summer vacation) |
| 37. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEP7021 | Electrical Drives |
| 38. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEP7022 | Smart Grid |
| 39. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEP7023 | Optimization Techniques |
| 40. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEP7031 | Electrical and Hybrid Vehicles |
| 41. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEP7032 | Power System Dynamics and Stability |
| 42. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEP7033 | Digital signal Processing |
| 43. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEP8011 | Advanced Electric Drives |
| 44. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEP8012 | Electrical Energy Conservation And Auditing |
| 45. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEP8013 | Intelligent Control & Its Applications |
| 46. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEP8021 | FACTS |
| 47. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEP8022 | Power Quality |
| 48. | B.Tech.- Electronics & Electrical Engineering | 18EEEEEP8023 | Digital Control Systems |
| 49. | B.Tech.- Electronics & Electrical Engineering | 18EEEEER8040 | Project Phase-II |

| S.No. | Name of the Program | Course Code | Name of the Course |
|--------------|---------------------------------|--------------------|--|
| 50. | B.Tech.- Mechanical Engineering | 21EEPHT1020 | Engineering Physics |
| 51. | B.Tech.- Mechanical Engineering | 21CMMEL1050 | Engineering Graphics |
| 52. | B.Tech.- Mechanical Engineering | 21EEPHL1060 | Engineering Physics Lab |
| 53. | B.Tech.- Mechanical Engineering | 21EEMET2050 | Engineering Mechanics |
| 54. | B.Tech.- Mechanical Engineering | 21CMMEL2080 | Engineering Workshop Lab |
| 55. | B.Tech.- Mechanical Engineering | 18MEMET7010 | Operation Research |
| 56. | B.Tech.- Mechanical Engineering | 18MEMET7020 | Instrumentation & Control Systems |
| 57. | B.Tech.- Mechanical Engineering | 18MEMEP703A | Gas Dynamics & Jet Propulsion |
| 58. | B.Tech.- Mechanical Engineering | 18MEMEP703B | Finite Element Methods |
| 59. | B.Tech.- Mechanical Engineering | 18MEMEP703C | Flexible Manufacturing Systems |
| 60. | B.Tech.- Mechanical Engineering | 18MEMEP704A | Automobile Engineering |
| 61. | B.Tech.- Mechanical Engineering | 18MEMEP704B | Mechatronics |
| 62. | B.Tech.- Mechanical Engineering | 18MEMEP704C | Additive Manufacturing |
| 63. | B.Tech.- Mechanical Engineering | 18MEMEL7060 | Instrumentation Lab |
| 64. | B.Tech.- Mechanical Engineering | 18MEMEC7070 | Internship with Seminar |
| 65. | B.Tech.- Mechanical Engineering | 18MEMER7080 | Project Phase-I |
| 66. | B.Tech.- Mechanical Engineering | 18MEMET8010 | Automation in Manufacturing |
| 67. | B.Tech.- Mechanical Engineering | 18MEMEP802A | Energy Conservation & Management |
| 68. | B.Tech.- Mechanical Engineering | 18MEMEP802B | Non-Destructive Evaluation |
| 69. | B.Tech.- Mechanical Engineering | 18MEMEP802C | Solid Mechanics |
| 70. | B.Tech.- Mechanical Engineering | 18MEMEP803A | Refrigeration and Air Conditioning |
| 71. | B.Tech.- Mechanical Engineering | 18MEMEP803B | Computational Fluid Dynamics |
| 72. | B.Tech.- Mechanical Engineering | 18MEMEP803C | Quality & Reliability Engineering |
| 73. | B.Tech.- Mechanical Engineering | 18MEMER805X | Project Phase-II |
| 74. | B.Tech.- Mechanical Engineering | 18MEMCN8060 | Co-Curricular and ExtraCurricular Activity |
| 75. | M.Tech.-CAD/CAM | 21MECC101 | Geometric Modeling |
| 76. | M.Tech.-CAD/CAM | 21MECC102 | Computer Aided Manufacturing |
| 77. | M.Tech.-CAD/CAM | 21MECC103A | Computational Methods in Engineering |
| 78. | M.Tech.-CAD/CAM | 21MECC103B | Materials Technology |

| S.No. | Name of the Program | Course Code | Name of the Course |
|--------------|---|--------------------|---|
| 79. | M.Tech.-CAD/CAM | 21MECC103C | Mechanical Vibrations |
| 80. | M.Tech.-CAD/CAM | 21MECC104A | Mechatronics |
| 81. | M.Tech.-CAD/CAM | 21MECC104B | Industrial Robotics |
| 82. | M.Tech.-CAD/CAM | 21MECC104C | Simulation of Manufacturing Systems |
| 83. | M.Tech.-CAD/CAM | 21MECC155 | Advanced CAD Lab |
| 84. | M.Tech.-CAD/CAM | 21MECC156 | Advanced manufacturing Lab |
| 85. | M.Tech.-CAD/CAM | 21MECC157 | Research Methodology and IPR |
| 86. | M.Tech.-CAD/CAM | 21MECC158 | Writing Skills for Scientific Communication |
| 87. | M.Tech.-CAD/CAM | 21MECC201 | Theory of Elasticity and Plasticity |
| 88. | M.Tech.-CAD/CAM | 21MECC202 | Advanced Manufacturing Processes |
| 89. | M.Tech.-CAD/CAM | 21MECC203A | Advanced Finite Element Methods |
| 90. | M.Tech.-CAD/CAM | 21MECC203B | Fracture mechanics |
| 91. | M.Tech.-CAD/CAM | 21MECC203C | Product Design and Development |
| 92. | M.Tech.-CAD/CAM | 21MECC204A | Materials Characterization Techniques |
| 93. | M.Tech.-CAD/CAM | 21MECC204B | Optimization & Reliability |
| 94. | M.Tech.-CAD/CAM | 21MECC204C | Additive Manufacturing |
| 95. | M.Tech.-CAD/CAM | 21MECC255 | Material Characterization Lab |
| 96. | M.Tech.-CAD/CAM | 21MECC256 | Simulation of Manufacturing Systems Lab |
| 97. | M.Tech.-CAD/CAM | 21MECC257 | Mini Project with Seminar |
| 98. | M.Tech.-CAD/CAM | 21MECC258 | Personality development through life Enlightenment skills |
| 99. | B.Tech.-Electronics and Communication Engineering | 18ECECT7010 | Electronic Measurements & Instrumentation |
| 100. | B.Tech.-Electronics and Communication Engineering | 18ECECP702A | Optical Communications |
| 101. | B.Tech.-Electronics and Communication Engineering | 18ECECP702B | Low Power VLSI |
| 102. | B.Tech.-Electronics and Communication Engineering | 18ECECP702C | Information Theory & Coding |
| 103. | B.Tech.-Electronics and Communication Engineering | 18ECECP703A | Wireless Sensor Networks |
| 104. | B.Tech.-Electronics and Communication Engineering | 18ECECP703B | Bio-Medical Electronics |
| 105. | B.Tech.-Electronics and Communication Engineering | 18ECECP703C | Embedded System Design |
| 106. | B.Tech.-Electronics and Communication Engineering | 18XXECO0XA | Microcontroller Programming |
| 107. | B.Tech.-Electronics and Communication Engineering | 18XXECO0XB | Internet of Things and its applications |

| S.No. | Name of the Program | Course Code | Name of the Course |
|--------------|---|--------------------|--|
| 108. | B.Tech.-Electronics and Communication Engineering | 18XXECO0XC | Digital Signal Processing |
| 109. | B.Tech.-Electronics and Communication Engineering | 18XXECO0XD | Digital Image Processing |
| 110. | B.Tech.-Electronics and Communication Engineering | 18XXECO0XE | Antennas and Wave Propagation |
| 111. | B.Tech.-Electronics and Communication Engineering | 18XXECO0XF | Cellular Mobile Communication |
| 112. | B.Tech.-Electronics and Communication Engineering | 18XXECO0XG | VLSI Design |
| 113. | B.Tech.-Electronics and Communication Engineering | 18XXECO0XH | VLSI Physical Design Automation |
| 114. | B.Tech.-Electronics and Communication Engineering | 18ECECL706A | Microwave & Optical Communication Lab |
| 115. | B.Tech.-Electronics and Communication Engineering | 18ECECL706B | VLSI Design Lab |
| 116. | B.Tech.-Electronics and Communication Engineering | 18ECECL706C | Embedded Systems Lab |
| 117. | B.Tech.-Electronics and Communication Engineering | 18ECECR7070 | Project Work Phase-I |
| 118. | B.Tech.-Electronics and Communication Engineering | 18ECECR7080 | Internship |
| 119. | B.Tech.-Electronics and Communication Engineering | 18ECECP801A | Cellular Mobile Communication |
| 120. | B.Tech.-Electronics and Communication Engineering | 18ECECP801B | VLSI Physical Design Automation |
| 121. | B.Tech.-Electronics and Communication Engineering | 18ECECP801C | Internet of Things and its applications |
| 122. | B.Tech.-Electronics and Communication Engineering | 18ECECP802A | Radar Systems |
| 123. | B.Tech.-Electronics and Communication Engineering | 18ECECP802B | Nano Electronics |
| 124. | B.Tech.-Electronics and Communication Engineering | 18ECECP802C | Embedded & Real Time Concepts |
| 125. | B.Tech.-Electronics and Communication Engineering | 18ECECR8050 | Project Work Phase-II |
| 126. | B.Tech.-Electronics and Communication Engineering | 18ECECC8060 | Co-Curricular and Extra Curricular Activity (MC) |
| 127. | M.Tech.-Signal Processing | 21ECSP104A | Digital data communications |
| 128. | M.Tech.-Signal Processing | 21ECSP104B | Wireless Sensor Networks |
| 129. | M.Tech.-Signal Processing | 21ECSP105 | Research methodology and IPR |
| 130. | M.Tech.-Signal Processing | 21ECSP152 | Data communications lab |
| 131. | M.Tech.-Signal Processing | 21ECSP203A | Internet of things |
| 132. | M.Tech.-Signal Processing | 21ECSP203C | Biomedical Signal Processing |
| 133. | M.Tech.-Signal Processing | 21ECSP204C | EMI/EMC |
| 134. | M.Tech.-Signal Processing | 21ECSP251 | Digital image & Video processing Lab |
| 135. | M.Tech.-Signal Processing | 21ECSP252 | Detection and Estimation Theory Lab |
| 136. | M.Tech.-VLSI | 21ECVE103A | Physical Design Automation |

| S.No. | Name of the Program | Course Code | Name of the Course |
|--------------|--|--------------------|---|
| 137. | M.Tech.-VLSI | 21ECVE105 | Research methodology and IPR |
| 138. | M.Tech.-VLSI | 21ECVE151 | Advanced VLSI Design Lab I |
| 139. | M.Tech.-VLSI | 21ECVE152 | Embedded System Lab |
| 140. | M.Tech.-VLSI | 21ECVE251 | Advanced VLSI Design Lab II |
| 141. | M.Tech.-VLSI | 21ECVE252 | IOT Lab |
| 142. | B.Tech.-Computer Science and Engineering | 21CMEGT1010 | Technical English |
| 143. | B.Tech.-Computer Science and Engineering | 21CMMAT1020 | Engineering Mathematics-I |
| 144. | B.Tech.-Computer Science and Engineering | 21CMEET1030 | Basic Electrical Engineering |
| 145. | B.Tech.-Computer Science and Engineering | 21CSMEL1050 | Computer Aided Engineering Graphics |
| 146. | B.Tech.-Computer Science and Engineering | 21CMCSL1060 | English Communication Skills Lab |
| 147. | B.Tech.-Computer Science and Engineering | 21CMEEL1070 | Basic Electrical Engineering Lab |
| 148. | B.Tech.-Computer Science and Engineering | 21CMESN1090 | Environmental Science |
| 149. | B.Tech.-Computer Science and Engineering | 21CMMAT2010 | Engineering Mathematics II |
| 150. | B.Tech.-Computer Science and Engineering | 21CSPHT2020 | Engineering Physics |
| 151. | B.Tech.-Computer Science and Engineering | 21CMCHT2030 | Engineering Chemistry |
| 152. | B.Tech.-Computer Science and Engineering | 21CSCST2050 | Data Structures |
| 153. | B.Tech.-Computer Science and Engineering | 21CSPHL2060 | Engineering Physics Lab |
| 154. | B.Tech.-Computer Science and Engineering | 21CMCHL2070 | Engineering Chemistry Lab |
| 155. | B.Tech.-Computer Science and Engineering | 21CSCSL2080 | Data Structures Lab |
| 156. | B.Tech.-Computer Science and Engineering | 21CMMSN2090 | Constitution of India, professional ethics & human rights |
| 157. | B.Tech.-Computer Science and Engineering | 18CSCST7010 | Compiler Design |
| 158. | B.Tech.-Computer Science and Engineering | 18CSCSP702A | Unified Modeling Language |
| 159. | B.Tech.-Computer Science and Engineering | 18CSCSP702B | Cryptography & Network Security |
| 160. | B.Tech.-Computer Science and Engineering | 18CSCSP702C | Data Warehousing & Mining |
| 161. | B.Tech.-Computer Science and Engineering | 18CSCSP703A | Design Patterns |
| 162. | B.Tech.-Computer Science and Engineering | 18CSCSP703B | Cyber Security |
| 163. | B.Tech.-Computer Science and Engineering | 18CSCSP703C | Artificial Intelligence |
| 164. | B.Tech.-Computer Science and Engineering | 18XXCSO60MA | R Programming |
| 165. | B.Tech.-Computer Science and Engineering | 18XXCSO60MB | Java Programming |

| S.No. | Name of the Program | Course Code | Name of the Course |
|--------------|--|--------------------|--|
| 166. | B.Tech.-Computer Science and Engineering | 18XXCSO60MC | Block Chain |
| 167. | B.Tech.-Computer Science and Engineering | 18XXCSO70MA | Designing Database Management Systems |
| 168. | B.Tech.-Computer Science and Engineering | 18XXCSO70MB | App Technologies |
| 169. | B.Tech.-Computer Science and Engineering | 18XXCSO70MC | Quantum Computing |
| 170. | B.Tech.-Computer Science and Engineering | 18CSCSL7060 | Compiler Design Lab |
| 171. | B.Tech.-Computer Science and Engineering | 18CSCSC7070 | Internship with Seminar |
| 172. | B.Tech.-Computer Science and Engineering | 18CSCSR7080 | Project-I |
| 173. | B.Tech.-Computer Science and Engineering | 18CSCSP801A | Software Testing |
| 174. | B.Tech.-Computer Science and Engineering | 18CSCSP801B | Mobile Computing |
| 175. | B.Tech.-Computer Science and Engineering | 18CSCSP801C | Machine Learning |
| 176. | B.Tech.-Computer Science and Engineering | 18CSCSP802A | Software Quality Assurance |
| 177. | B.Tech.-Computer Science and Engineering | 18CSCSP802B | Ad-hoc & Sensor Networks |
| 178. | B.Tech.-Computer Science and Engineering | 18CSCSP802C | Hadoop & Big Data |
| 179. | B.Tech.-Computer Science and Engineering | 18CSCSP803A | Software Project Management |
| 180. | B.Tech.-Computer Science and Engineering | 18CSCSP803B | Cyber Forensics |
| 181. | B.Tech.-Computer Science and Engineering | 18CSCSP803C | Data Analytics |
| 182. | B.Tech.-Computer Science and Engineering | 18XXCSO80MA | Operating Systems Concepts |
| 183. | B.Tech.-Computer Science and Engineering | 18XXCSO80MB | Web Technologies |
| 184. | B.Tech.-Computer Science and Engineering | 18XXCSO80MC | Artificial Intelligence |
| 185. | B.Tech.-Computer Science and Engineering | 18XXCSO80MD | Virtual Reality |
| 186. | B.Tech.-Computer Science and Engineering | 18CSCSR8050 | Project-II |
| 187. | B.Tech.-Computer Science and Engineering | 18CSCSO8060 | Co-curricular/Extra-Activities |
| 188. | M.Tech.-Computer Science and Engineering | 21CSCS101 | Mathematical Foundations of Computer Science |
| 189. | M.Tech.-Computer Science and Engineering | 21CSCS102 | Advanced Data Structures & Algorithms |
| 190. | M.Tech.-Computer Science and Engineering | 21CSCS103A | Big Data Analytics |
| 191. | M.Tech.-Computer Science and Engineering | 21CSCS103B | Digital Image Processing |
| 192. | M.Tech.-Computer Science and Engineering | 21CSCS103C | Advanced Operating Systems |
| 193. | M.Tech.-Computer Science and Engineering | 21CSCS104A | Advanced Computer Networks |
| 194. | M.Tech.-Computer Science and Engineering | 21CSCS104B | Internet of Things |

| S.No. | Name of the Program | Course Code | Name of the Course |
|-------|--|-------------|---|
| 195. | M.Tech.-Computer Science and Engineering | 21CSCS104C | Object Oriented Software Engineering |
| 196. | M.Tech.-Computer Science and Engineering | 21CSCS105 | Research Methodology and IPR |
| 197. | M.Tech.-Computer Science and Engineering | 21CSCS106 | Advanced Data Structures & Algorithms Lab |
| 198. | M.Tech.-Computer Science and Engineering | 21CSCS107 | Advanced Computing Lab |
| 199. | M.Tech.-Computer Science and Engineering | 21CSCS201 | Machine learning |
| 200. | M.Tech.-Computer Science and Engineering | 21CSCS202 | MEAN Stack Technologies |
| 201. | M.Tech.-Computer Science and Engineering | 21CSCS203A | Advanced Databases and Mining |
| 202. | M.Tech.-Computer Science and Engineering | 21CSCS203B | Ad Hoc & Sensor Networks |
| 203. | M.Tech.-Computer Science and Engineering | 21CSCS203C | Soft Computing |
| 204. | M.Tech.-Computer Science and Engineering | 21CSCS204A | Cloud Computing |
| 205. | M.Tech.-Computer Science and Engineering | 21CSCS204B | Principles of computer security |
| 206. | M.Tech.-Computer Science and Engineering | 21CSCS204C | High Performance Computing |
| 207. | M.Tech.-Computer Science and Engineering | 21CSCS205 | Machine Learning with python lab |
| 208. | M.Tech.-Computer Science and Engineering | 21CSCS206 | MEAN Stack Technologies Lab |
| 209. | M.Tech.-Computer Science and Engineering | 21CSCS207 | Mini Project with Seminar |
| 210. | M.Tech.-Computer Science and Engineering | 21CSCS208A | English for Research Paper Writing |
| 211. | M.Tech.-Computer Science and Engineering | 21CSCS208B | Disaster Management |
| 212. | M.Tech.-Computer Science and Engineering | 21CSCS208C | Sanskrit for Technical Knowledge |
| 213. | M.Tech.-Computer Science and Engineering | 21CSCS208D | Value Education |
| 214. | M.Tech.-Computer Science and Engineering | 21CSCS208E | Constitution of India |
| 215. | M.Tech.-Computer Science and Engineering | 21CSCS208F | Pedagogy Studies |
| 216. | M.Tech.-Computer Science and Engineering | 21CSCS208G | Stress Management by Yoga |
| 217. | M.Tech.-Computer Science and Engineering | 21CSCS208H | Personality Development through Life Enlightenment Skills |
| 218. | B.Tech.-Information Technology | 18ITITT7010 | Cryptography and Network security |
| 219. | B.Tech.-Information Technology | 18ITITP702A | R Programming |
| 220. | B.Tech.-Information Technology | 18ITITP702B | Software Quality Assurance |
| 221. | B.Tech.-Information Technology | 18ITITP703A | Cloud Computing |
| 222. | B.Tech.-Information Technology | 18ITITP703B | Software Testing Methodologies |
| 223. | B.Tech.-Information Technology | 18ITITL7060 | Object Oriented Analysis and Design Lab |

| S.No. | Name of the Program | Course Code | Name of the Course |
|--------------|--|--------------------|--|
| 224. | B.Tech.-Information Technology | 18ITITR7070 | Internship |
| 225. | B.Tech.-Information Technology | 18ITITR7080 | Project Phase – I |
| 226. | B.Tech.-Information Technology | 18ITITP801A | Distributed Databases |
| 227. | B.Tech.-Information Technology | 18ITITP801B | Fault Tolerant Systems |
| 228. | B.Tech.-Information Technology | 18ITITP802A | Big Data Analytics |
| 229. | B.Tech.-Information Technology | 18ITITP802B | Software Project Management |
| 230. | B.Tech.-Information Technology | 18ITITP803A | Open Source Software |
| 231. | B.Tech.-Information Technology | 18ITITP803B | Optimization Techniques |
| 232. | B.Tech.-Information Technology | 18ITITO8040 | Project Phase- II |
| 233. | B.Tech.-Information Technology | 18ITITR8050 | Co-curricular/Extra-curricularActivities |
| 234. | B.Tech.-Information Technology | 21ITMEL1050 | Computer Aided Engineering Graphics |
| 235. | B.Tech.-Electronics and Communication Technology | 21ETMEL1050 | Computer Aided Engineering Graphics |
| 236. | B.Tech.-Electronics and Communication Technology | 18ETETT3020 | Electronic Devices |
| 237. | B.Tech.-Electronics and Communication Technology | 18ETETT3030 | Network Theory |
| 238. | B.Tech.-Electronics and Communication Technology | 18ETETT3040 | Signals & Systems |
| 239. | B.Tech.-Electronics and Communication Technology | 18ETETT3050 | Probability & Stochastic Processes |
| 240. | B.Tech.-Electronics and Communication Technology | 18ETETL3060 | Electronic Devices Lab |
| 241. | B.Tech.-Electronics and Communication Technology | 18ETETL3070 | Network Theory Lab |
| 242. | B.Tech.-Electronics and Communication Technology | 18ETETN3080 | Pulse & Digital Circuits (MC) |
| 243. | B.Tech.-Electronics and Communication Technology | 18ETETT4010 | Digital System Design |
| 244. | B.Tech.-Electronics and Communication Technology | 18ETETT4030 | Electro Magnetic Waves &Transmission Lines |
| 245. | B.Tech.-Electronics and Communication Technology | 18ETETT4040 | Analog Circuits |
| 246. | B.Tech.-Electronics and Communication Technology | 18ETETT4050 | Analog & Digital Communications |
| 247. | B.Tech.-Electronics and Communication Technology | 18ETETL4060 | Digital System Design Lab |
| 248. | B.Tech.-Electronics and Communication Technology | 18ETETL4070 | Analog Circuits Lab |
| 249. | B.Tech.-Electronics and Communication Technology | 18ETETL4080 | Analog & Digital Communications Lab |
| 250. | B.Tech.-Computer Science &Technology | 21CTMEL1050 | Computer Aided Engineering Graphics |
| 251. | B.Tech.-Computer Science &Technology | 21CMCTT2040 | Python Programming |
| 252. | B.Tech.-Computer Science &Technology | 21CTCTT2050 | Data Structures |

| S.No. | Name of the Program | Course Code | Name of the Course |
|--------------|--|--------------------|---|
| 253. | B.Tech.-Computer Science &Technology | 21CTCTL2080 | Data Structures Lab |
| 254. | B.Tech.-Computer Science &Technology | 18CTECT3020 | Digital Electronics |
| 255. | B.Tech.-Computer Science &Technology | 18CTECT3030 | Analog Electronic Circuits |
| 256. | B.Tech.-Computer Science &Technology | 18CTCTT3040 | Discrete Mathematics |
| 257. | B.Tech.-Computer Science &Technology | 18CTCTT3050 | Data Structures |
| 258. | B.Tech.-Computer Science &Technology | 18CTECL3060 | Analog & Digital Electronics Lab |
| 259. | B.Tech.-Computer Science &Technology | 18CTCTL3070 | IT Workshop Lab |
| 260. | B.Tech.-Computer Science &Technology | 18CTCTL3080 | Data Structures Lab |
| 261. | B.Tech.-Computer Science &Technology | 18CTECT4010 | Signals & Systems |
| 262. | B.Tech.-Computer Science &Technology | 18CMCET4020 | Engineering Mechanics |
| 263. | B.Tech.-Computer Science &Technology | 18CTCTT4030 | Computer Organization |
| 264. | B.Tech.-Computer Science &Technology | 18CTCTT4040 | Algorithm Design and Analysis |
| 265. | B.Tech.-Computer Science &Technology | 18CTCTT4050 | Java Programming |
| 266. | B.Tech.-Computer Science &Technology | 18CTCTL4060 | Computer Organization Lab |
| 267. | B.Tech.-Computer Science &Technology | 18CTCTL4070 | Algorithm Design and Analysis Lab |
| 268. | B.Tech.-Computer Science &Technology | 18CTCTL4080 | Java Programming Lab |
| 269. | B.Tech.-Artificial Intelligence and Machine Learning | 21CMMAT1010 | Engineering Mathematics-I |
| 270. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMPHT1020 | Engineering Physics |
| 271. | B.Tech.-Artificial Intelligence and Machine Learning | 21CMCHT1030 | Engineering Chemistry |
| 272. | B.Tech.-Artificial Intelligence and Machine Learning | 21CMCST1040 | Programming for problem solving |
| 273. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMMEL1050 | Computer Aided Engineering Graphics |
| 274. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMPHL1060 | Engineering Physics Lab |
| 275. | B.Tech.-Artificial Intelligence and Machine Learning | 21CMCHL1070 | Engineering Chemistry Lab |
| 276. | B.Tech.-Artificial Intelligence and Machine Learning | 21CMCSL1080 | Programming for Problem Solving Lab |
| 277. | B.Tech.-Artificial Intelligence and Machine Learning | 21CMMSN1090 | Constitution of India, professional ethics & human rights |
| 278. | B.Tech.-Artificial Intelligence and Machine Learning | 21CMEGT2010 | Technical English |
| 279. | B.Tech.-Artificial Intelligence and Machine Learning | 21CMMAT2020 | Engineering Mathematics II |
| 280. | B.Tech.-Artificial Intelligence and Machine Learning | 21CMEET2030 | Basic Electrical Engineering |
| 281. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAMT2050 | Data Structures |

| S.No. | Name of the Program | Course Code | Name of the Course |
|-------|--|-------------|--|
| 282. | B.Tech.-Artificial Intelligence and Machine Learning | 21CMEGL2060 | English Communication Skills Lab |
| 283. | B.Tech.-Artificial Intelligence and Machine Learning | 21CMEEL2070 | Basic Electrical Engineering Lab |
| 284. | B.Tech.-Artificial Intelligence and Machine Learning | 21AMAML2080 | DS Lab |
| 285. | B.Tech.-Artificial Intelligence and Machine Learning | 21CMCHN2090 | Environmental Science |
| 286. | PG-Management Science | 21MS11T1 | Principles of Management |
| 287. | PG-Management Science | 21MS11T2 | Managerial Economics |
| 288. | PG-Management Science | 21MS11T3 | Accounting for Managers |
| 289. | PG-Management Science | 21MS11T4 | Managerial Communication & Soft Skills |
| 290. | PG-Management Science | 21MS11T5 | Quantitative Analysis for Business Decisions |
| 291. | PG-Management Science | 21MS11T6 | Business Environment |
| 292. | PG-Management Science | 21CS11L7 | Information Technology Lab |
| 293. | PG-Management Science | 21MS11C8 | Case Study – I |
| 294. | PG-Management Science | 21MS12T1 | Financial Management |
| 295. | PG-Management Science | 21MS12T2 | Marketing Management |
| 296. | PG-Management Science | 21MS12T3 | Human Resource Management |
| 297. | PG-Management Science | 21MS12T4 | Production & Operations Management |
| 298. | PG-Management Science | 21MS12T5 | Research Methodology |
| 299. | PG-Management Science | 21MS12T6 | Organisational Behaviour |
| 300. | PG-Management Science | 21MS12P7 | Mini Project |
| 301. | PG-Management Science | 21MS12C8 | Case Study – II |


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SASI INSTITUTE OF TECHNOLOGY & ENGINEERING (A)

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List of new courses introduced in the programs in the Academic Year 2020-21

| S.No | Name of the Program | Course Code | Course Name |
|------|---------------------------|-------------|--|
| 1. | B.Tech.-Civil Engineering | 18CMBIT5010 | Biology for Engineers |
| 2. | B.Tech.-Civil Engineering | 18CECET5020 | Theory of Structures-I |
| 3. | B.Tech.-Civil Engineering | 18CECET5030 | Geo-Technical Engineering |
| 4. | B.Tech.-Civil Engineering | 18CECET5040 | Hydrology and Water Resources Engineering |
| 5. | B.Tech.-Civil Engineering | 18CECET5050 | Hydraulic Engineering |
| 6. | B.Tech.-Civil Engineering | 18xxCEOxxxA | Civil Engineering - Societal & Global Impact |
| 7. | B.Tech.-Civil Engineering | 18xxCEOxxxB | Introduction to Civil Engineering |
| 8. | B.Tech.-Civil Engineering | 18xxCEOxxxC | Disaster Management |
| 9. | B.Tech.-Civil Engineering | 18xxCEOxxxD | Environmental Pollution and control |
| 10. | B.Tech.-Civil Engineering | 18xxCEOxxxE | Building Materials |
| 11. | B.Tech.-Civil Engineering | 18xxCEOxxxF | Green Buildings and Sustainability |
| 12. | B.Tech.-Civil Engineering | 18CECEL5070 | Survey Field Camp |
| 13. | B.Tech.-Civil Engineering | 18CECEL5080 | Geo-Technical Engineering Lab |
| 14. | B.Tech.-Civil Engineering | 18CECEL5090 | Fluid Mechanics & Hydraulic Machinery Lab |
| 15. | B.Tech.-Civil Engineering | 18CMEGT6010 | Personality Development & professional Communication |
| 16. | B.Tech.-Civil Engineering | 18CECET6020 | Theory of Structures-II |
| 17. | B.Tech.-Civil Engineering | 18CECET6030 | Reinforced Concrete Structures |
| 18. | B.Tech.-Civil Engineering | 18CECET605A | Foundation Engineering |
| 19. | B.Tech.-Civil Engineering | 18CECET605B | Architecture & Town Planning |
| 20. | B.Tech.-Civil Engineering | 18CECET605C | Structural Analysis by Matrix Methods |
| 21. | B.Tech.-Civil Engineering | 18CECET605D | Remote Sensing & GIS Applications |
| 22. | B.Tech.-Civil Engineering | 18CECEL6060 | Irrigation Engineering & Drawing Lab |

| S.No | Name of the Program | Course Code | Course Name |
|------|--|-------------|--|
| 23. | B.Tech.-Civil Engineering | 18CECEL6070 | Software Applications in Civil Engineering |
| 24. | B.Tech.-Civil Engineering | 18CECEC6080 | Term Paper with Seminar |
| 25. | B.Tech.-Civil Engineering | 18CECEN6090 | Advanced Methods in Structural Analysis |
| 26. | B.Tech.-Electrical & Electronics Engineering | 18EEEET5010 | Microprocessors |
| 27. | B.Tech.-Electrical & Electronics Engineering | 18EEEET5020 | Power Systems – I (Apparatus and Modeling) |
| 28. | B.Tech.-Electrical & Electronics Engineering | 18CMMST5030 | Management Science |
| 29. | B.Tech.-Electrical & Electronics Engineering | 18EEEET5040 | Power Electronics |
| 30. | B.Tech.-Electrical & Electronics Engineering | 18EEEEL5060 | Microprocessors Lab |
| 31. | B.Tech.-Electrical & Electronics Engineering | 18EEEEL5070 | Power Systems-I Lab |
| 32. | B.Tech.-Electrical & Electronics Engineering | 18EEEEL5080 | Power Electronics Lab |
| 33. | B.Tech.-Electrical & Electronics Engineering | 18CMBIT6010 | Biology for Engineers |
| 34. | B.Tech.-Electrical & Electronics Engineering | 18CMEGT6020 | Personality Development & Professional Communication |
| 35. | B.Tech.-Electrical & Electronics Engineering | 18EEEET6030 | Power Systems – II (Operation and Control) |
| 36. | B.Tech.-Electrical & Electronics Engineering | 18EEEET6040 | Electrical Measurements & Instrumentation |
| 37. | B.Tech.-Electrical & Electronics Engineering | 18CMMST6050 | Engineering Economics and Financial management |
| 38. | B.Tech.-Electrical & Electronics Engineering | 18EEEEL6070 | Power Systems – II Lab |
| 39. | B.Tech.-Electrical & Electronics Engineering | 18EEEEL6080 | Electrical Measurements & Instrumentation Lab |
| 40. | B.Tech.-Electrical & Electronics Engineering | 18EEEEC6090 | Term Paper with Seminar |
| 41. | B.Tech.-Electrical & Electronics Engineering | 18EEEEP6061 | Line Commutated and Active Rectifiers |
| 42. | B.Tech.-Electrical & Electronics Engineering | 18EEEEP6062 | HVDC Transmission Systems |
| 43. | B.Tech.-Electrical & Electronics Engineering | 18EEEEP6063 | Control Systems Design |
| 44. | B.Tech.-Electrical & Electronics Engineering | 18XXEEM0XA | Control system design |
| 45. | B.Tech.-Electrical & Electronics Engineering | 18XXEEM0XB | Optimization techniques |
| 46. | B.Tech.-Electrical & Electronics Engineering | 18XXEEM0XC | Wind and Solar Energy Systems |
| 47. | B.Tech.-Electrical & Electronics Engineering | 18XXEEM0XD | Electrical and Hybrid Vehicles |
| 48. | B.Tech.-Electrical & Electronics Engineering | 18XXEEM0XE | Intelligent control & its applications |
| 49. | B.Tech.-Electrical & Electronics Engineering | 18XXEEM0XF | Digital Signal Processing |
| 50. | B.Tech.-Electrical & Electronics Engineering | 18XXEEM0XG | Electrical materials |

| S.No | Name of the Program | Course Code | Course Name |
|------|---|-------------|--|
| 51. | B.Tech.-Electrical & Electronics Engineering | 18XXEEOM0XH | Digital Control Systems |
| 52. | B.Tech.-Electrical & Electronics Engineering | 18XXEEOM0XI | Industrial Electrical Systems |
| 53. | B.Tech.-Electrical & Electronics Engineering | 18XXEEOM0XJ | Advanced Control Systems |
| 54. | B.Tech.-Mechanical Engineering | 18MEMET5020 | Manufacturing Technology |
| 55. | B.Tech.-Mechanical Engineering | 18MEMET5030 | Design of Machine Elements |
| 56. | B.Tech.-Mechanical Engineering | 18MEMET5040 | Heat Transfer |
| 57. | B.Tech.-Mechanical Engineering | 18MEMEL5060 | Heat Transfer Lab |
| 58. | B.Tech.-Mechanical Engineering | 18MEMEL5070 | Manufacturing Technology & Metrology Lab |
| 59. | B.Tech.-Mechanical Engineering | 18MEMEC5080 | Term Paper with Seminar |
| 60. | B.Tech.-Mechanical Engineering | 18MEXXON0MA | Operations Research |
| 61. | B.Tech.-Mechanical Engineering | 18MEXXON0MB | Robotics |
| 62. | B.Tech.-Mechanical Engineering | 18MEXXON0MC | Advanced Optimization Techniques |
| 63. | B.Tech.-Mechanical Engineering | 18MEXXON0MD | Green Engineering Systems |
| 64. | B.Tech.-Mechanical Engineering | 18MEXXON0ME | Production Planning and Control |
| 65. | B.Tech.-Mechanical Engineering | 18MEXXON0MF | Nano Technology |
| 66. | B.Tech.-Mechanical Engineering | 18MEMET6010 | Theory of Machines-II |
| 67. | B.Tech.-Mechanical Engineering | 18MEMEP603A | Composite Materials |
| 68. | B.Tech.-Mechanical Engineering | 18MEMEP603B | Un-Conventional Machining Processes |
| 69. | B.Tech.-Mechanical Engineering | 18MEMEP603C | Internal Combustion Engines |
| 70. | B.Tech.-Mechanical Engineering | 18MEMEP604A | Power Plant Engineering |
| 71. | B.Tech.-Mechanical Engineering | 18MEMEP604B | CAD/CAM |
| 72. | B.Tech.-Mechanical Engineering | 18MEMEP604C | Design for Manufacture |
| 73. | B.Tech.-Mechanical Engineering | 18MEMEL6060 | Theory of Machines Lab |
| 74. | B.Tech.-Mechanical Engineering | 18MEMEL6070 | Thermal Engineering Lab |
| 75. | B.Tech.-Mechanical Engineering | 18MEMEL6080 | Modelling & Simulation Lab |
| 76. | B.Tech.-Mechanical Engineering | 18MEMEN6090 | Design of Transmission Systems |
| 77. | B.Tech.-Electronics and Communication Engineering | 18ECECT5010 | Control Systems |
| 78. | B.Tech.-Electronics and Communication | 18CMEGT5020 | Personality Development & Professional Communication |

| S.No | Name of the Program | Course Code | Course Name |
|------|---|-------------|--|
| | Engineering | | |
| 79. | B.Tech.-Electronics and Communication Engineering | 18ECECT5040 | Micro Processors & Micro Controllers |
| 80. | B.Tech.-Electronics and Communication Engineering | 18ECECT5050 | Digital Signal Processing |
| 81. | B.Tech.-Electronics and Communication Engineering | 18ECECL5060 | Micro Processors & Micro Controllers Lab |
| 82. | B.Tech.-Electronics and Communication Engineering | 18ECECL5070 | Digital Signal Processing Lab |
| 83. | B.Tech.-Electronics and Communication Engineering | 18ECECR5080 | Term Paper with Seminar |
| 84. | B.Tech.-Electronics and Communication Engineering | 18ECECT6020 | Computer Architectures & Organization |
| 85. | B.Tech.-Electronics and Communication Engineering | 18ECECP603A | Antennas & Wave Propagation |
| 86. | B.Tech.-Electronics and Communication Engineering | 18ECECP603B | CMOS VLSI Design |
| 87. | B.Tech.-Electronics and Communication Engineering | 18ECECP603C | Advanced Digital Signal Processing |
| 88. | B.Tech.-Electronics and Communication Engineering | 18ECECP604A | Microwave Theory and Techniques |
| 89. | B.Tech.-Electronics and Communication Engineering | 18ECECP604B | Digital Design through Verilog HDL |
| 90. | B.Tech.-Electronics and Communication Engineering | 18ECECP604C | Digital Image Processing |
| 91. | B.Tech.-Electronics and Communication Engineering | 18ECECT6060 | Computer Networks |
| 92. | B.Tech.-Electronics and Communication Engineering | 18ECECL6070 | Computer Networks Lab |

| S.No | Name of the Program | Course Code | Course Name |
|------|---|-------------|--|
| 93. | B.Tech.-Electronics and Communication Engineering | 18ECECL6080 | Electronic Design Workshop |
| 94. | B.Tech.-Computer Science and Engineering | 18CSCST5040 | Computer Networks |
| 95. | B.Tech.-Computer Science and Engineering | 18CSCST5050 | Operating Systems |
| 96. | B.Tech.-Computer Science and Engineering | 18CSCSL5060 | Computer Networks Lab |
| 97. | B.Tech.-Computer Science and Engineering | 18CSCSL5070 | Operating Systems Lab |
| 98. | B.Tech.-Computer Science and Engineering | 18CSCSL5080 | R Programming Lab |
| 99. | B.Tech.-Computer Science and Engineering | 18CSCST6010 | Formal Languages & Automata Theory |
| 100. | B.Tech.-Computer Science and Engineering | 18CSCST6020 | Database Systems |
| 101. | B.Tech.-Computer Science and Engineering | 18CSCSP603A | Software Engineering |
| 102. | B.Tech.-Computer Science and Engineering | 18CSCSP603B | Network Protocols |
| 103. | B.Tech.-Computer Science and Engineering | 18CSCSP603C | Mobile Application Development |
| 104. | B.Tech.-Computer Science and Engineering | 18XXCSO50MA | Data Structures through C |
| 105. | B.Tech.-Computer Science and Engineering | 18XXCSO50MB | Python Programming |
| 106. | B.Tech.-Computer Science and Engineering | 18XXCSO50MC | Internet of Things |
| 107. | B.Tech.-Computer Science and Engineering | 18CSCSL6060 | Database systems Lab |
| 108. | B.Tech.-Computer Science and Engineering | 18CSCSL6070 | Python Programming Lab |
| 109. | B.Tech.-Computer Science and Engineering | 18CSCSR6080 | Internship |
| 110. | B.Tech.-Information Technology | 18ITITT5040 | Database Systems |
| 111. | B.Tech.-Information Technology | 18ITITT5050 | Operating Systems |
| 112. | B.Tech.-Information Technology | 18ITITL5060 | Advanced Java and Web Technologies Lab |
| 113. | B.Tech.-Information Technology | 18ITITL5070 | Operating Systems& UNIX ProgrammingLab |
| 114. | B.Tech.-Information Technology | 18ITITL5080 | Database Systems Lab |
| 115. | B.Tech.-Information Technology | 18ITITT6010 | Computer Networks |
| 116. | B.Tech.-Information Technology | 18ITITT6020 | Software Engineering |
| 117. | B.Tech.-Information Technology | 18ITITP6031 | Wireless Sensor Networks |
| 118. | B.Tech.-Information Technology | 18ITITP6032 | UI Design |
| 119. | B.Tech.-Information Technology | 18XXITOXXMA | Office Automation |
| 120. | B.Tech.-Information Technology | 18XXITOXXMB | Internet & Web Hosting |

| S.No | Name of the Program | Course Code | Course Name |
|------|--|--------------|--|
| 121. | B.Tech.-Information Technology | 18XXITOXXMC | Cloud Computing |
| 122. | B.Tech.-Information Technology | 18XXITOXXMD | E-Commerce |
| 123. | B.Tech.-Information Technology | 18XXITOXXME | Statistics and R Programming |
| 124. | B.Tech.-Information Technology | 18XXITOXXMF | Open Source software |
| 125. | B.Tech.-Information Technology | 18XXITOXXMH | Mobile Application Development |
| 126. | B.Tech.-Information Technology | 18CMMST605 | Engineering Economics & Financial Managent |
| 127. | B.Tech.-Information Technology | 18ITITL6060 | Software Engineering Lab |
| 128. | B.Tech.-Information Technology | 18ITITL6070 | Python Programming Lab |
| 129. | B.Tech.-Information Technology | 18ITITR6080 | Term Paper + Seminar |
| 130. | B.Tech.-Electronics and Communication Technology | 18CMEEL1080 | Constitution of India, professional ethics & human rights (Non -Credit course) |
| 131. | B.Tech.-Electronics and Communication Technology | 18EEPHT2020 | Engineering Physics |
| 132. | B.Tech.-Electronics and Communication Technology | 18CM MEL2080 | Environmental Science |
| 133. | B.Tech.-Computer Science and Technology | 18CTPHT1020 | Engineering Physics |
| 134. | B.Tech.-Computer Science and Technology | 18CMCTT1030 | Programming for problem solving |
| 135. | B.Tech.-Computer Science and Technology | 18CTPHL1050 | Engineering Physics lab |
| 136. | B.Tech.-Computer Science and Technology | 18CMCTL1060 | Programming for problem solving lab |
| 137. | B.Tech.-Computer Science and Technology | 18CMCHN1080 | Environmental Science |


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SASI INSTITUTE OF TECHNOLOGY & ENGINEERING (A)

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List of new courses introduced in the programs in the Academic Year 2019-20

| S.No. | Name of the Program | Course Code | Course Name |
|--------------|---|--------------------|--|
| 1. | B.Tech.-Civil Engineering | 18CMMAT3010 | Engineering Mathematics-III |
| 2. | B.Tech.-Civil Engineering | 18MEMET3020 | Engineering Mechanics |
| 3. | B.Tech.-Civil Engineering | 18CECET3030 | Engineering Geology |
| 4. | B.Tech.-Civil Engineering | 18CECET3040 | Surveying & Geomatics |
| 5. | B.Tech.-Civil Engineering | 18CECET3050 | Building Materials & Concrete Technology |
| 6. | B.Tech.-Civil Engineering | 18CECET3060 | Engineering Geology Lab |
| 7. | B.Tech.-Civil Engineering | 18CECEL3070 | Surveying Field work Lab |
| 8. | B.Tech.-Civil Engineering | 18CECEL3080 | Computer-aided Civil Engineering Drawing Lab |
| 9. | B.Tech.-Civil Engineering | 18CEECN3090 | Basic Electronics (MC) |
| 10. | B.Tech.-Civil Engineering | 18CECET4010 | Fluid Mechanics |
| 11. | B.Tech.-Civil Engineering | 18CECET4020 | Strength of Materials |
| 12. | B.Tech.-Civil Engineering | 18CECET4030 | Environmental Engineering |
| 13. | B.Tech.-Civil Engineering | 18CECET4040 | Transportation Engineering |
| 14. | B.Tech.-Civil Engineering | 18CMMST4050 | Engineering Economics and Financial Management |
| 15. | B.Tech.-Civil Engineering | 18CECEL4060 | Strength of Material Lab |
| 16. | B.Tech.-Civil Engineering | 18CECEL4070 | Environmental Engineering Lab |
| 17. | B.Tech.-Civil Engineering | 18CECEL4080 | Material Testing Lab |
| 18. | B.Tech.- Electrical & Electronics Engineering | 18EEEET3020 | Analog Electronics |
| 19. | B.Tech.- Electrical & Electronics Engineering | 18EEEET3030 | Electromagnetic fields |
| 20. | B.Tech.- Electrical & Electronics Engineering | 18EEEET3040 | Electrical Circuit Analysis |
| 21. | B.Tech.- Electrical & Electronics Engineering | 18EEEET3050 | Electrical Machines I |
| 22. | B.Tech.- Electrical & Electronics Engineering | 18EEEEL3060 | Analog Electronics Lab |

| S.No. | Name of the Program | Course Code | Course Name |
|--------------|---|--------------------|--|
| 23. | B.Tech.- Electrical & Electronics Engineering | 18EEEEEL3070 | Electrical Circuit Analysis Lab |
| 24. | B.Tech.- Electrical & Electronics Engineering | 18EEEEEL3080 | Electrical Machines I Lab |
| 25. | B.Tech.- Electrical & Electronics Engineering | 18EEEET4010 | Signals & Systems |
| 26. | B.Tech.- Electrical & Electronics Engineering | 18CMMET4020 | Engineering Mechanics |
| 27. | B.Tech.- Electrical & Electronics Engineering | 18EEEET4030 | Digital Electronics |
| 28. | B.Tech.- Electrical & Electronics Engineering | 18EEEET4040 | Control Systems |
| 29. | B.Tech.- Electrical & Electronics Engineering | 18EEEET4050 | Electrical Machines II |
| 30. | B.Tech.- Electrical & Electronics Engineering | 18EEEEEL4060 | Digital Electronics Lab |
| 31. | B.Tech.- Electrical & Electronics Engineering | 18EEEEEL4070 | Control Systems Lab |
| 32. | B.Tech.- Electrical & Electronics Engineering | 18EEEEEL4080 | Electrical Machines II Lab |
| 33. | M.Tech.-Power Electronics | 18EEPE301 | Self-Learning Course: Design of Photovoltaic Systems |
| 34. | M.Tech.-Power Electronics | 18EEPE351 | Project Work Phase – I |
| 35. | M.Tech.-Power Electronics | 18EEPE352 | Internship with seminar |
| 36. | M.Tech.-Power Electronics | 18EEPE451 | Project Phase-II |
| 37. | B.Tech.-Mechanical Engineering | 18MEECT3030 | Basic Electronics Engineering |
| 38. | B.Tech.-Mechanical Engineering | 18MEMET3040 | Manufacturing Processes |
| 39. | B.Tech.-Mechanical Engineering | 18MEMET3050 | Thermodynamics |
| 40. | B.Tech.-Mechanical Engineering | 18MEMET3060 | Materials Engineering |
| 41. | B.Tech.-Mechanical Engineering | 18MEMEL3070 | Manufacturing Processes Lab |
| 42. | B.Tech.-Mechanical Engineering | 18MEMEL3080 | CAEDP Lab |
| 43. | B.Tech.-Mechanical Engineering | 18MEMET4010 | Strength of Materials |
| 44. | B.Tech.-Mechanical Engineering | 18MEMET4020 | Fluid Mechanics & Fluid Machines |
| 45. | B.Tech.-Mechanical Engineering | 18MEMET4030 | Theory of Machines-I |
| 46. | B.Tech.-Mechanical Engineering | 18MEMET4040 | Applied Thermodynamics |
| 47. | B.Tech.-Mechanical Engineering | 18MEMEL4060 | Fluid Mechanics & Fluid Machines Lab |
| 48. | B.Tech.-Mechanical Engineering | 18MEMEL4070 | Mechanics of Solids & Materials Lab |
| 49. | B.Tech.-Mechanical Engineering | 18MEMEN4080 | Machine Drawing |
| 50. | M.Tech.-CAD/CAM | 18MECC301 | Self-Learning Course: CNC Technology & |

| S.No. | Name of the Program | Course Code | Course Name |
|-------|---|-------------|---|
| | | | Programming |
| 51. | M.Tech.-CAD/CAM | 18MECC351 | Internship with Seminar |
| 52. | M.Tech.-CAD/CAM | 18MECC352 | Project Work Phase-I |
| 53. | M.Tech.-CAD/CAM | 18MECC451 | Project Phase-II |
| 54. | B.Tech.-Electronics and Communication Engineering | 18ECECT3020 | Electronic Devices |
| 55. | B.Tech.-Electronics and Communication Engineering | 18ECECT3030 | Network Theory |
| 56. | B.Tech.-Electronics and Communication Engineering | 18ECECT3040 | Signals & Systems |
| 57. | B.Tech.-Electronics and Communication Engineering | 18ECECT3050 | Probability & Stochastic Processes |
| 58. | B.Tech.-Electronics and Communication Engineering | 18ECECL3060 | Electronic Devices Lab |
| 59. | B.Tech.-Electronics and Communication Engineering | 18ECECL3070 | Network Theory Lab |
| 60. | B.Tech.-Electronics and Communication Engineering | 18ECECN3080 | Pulse & Digital Circuits (MC) |
| 61. | B.Tech.-Electronics and Communication Engineering | 18ECECT4010 | Digital System Design |
| 62. | B.Tech.-Electronics and Communication Engineering | 18ECECT4030 | Electro Magnetic Waves & Transmission Lines |
| 63. | B.Tech.-Electronics and Communication Engineering | 18ECECT4040 | Analog Circuits |
| 64. | B.Tech.-Electronics and Communication Engineering | 18ECECT4050 | Analog & Digital Communications |
| 65. | B.Tech.-Electronics and Communication Engineering | 18ECECL4060 | Digital System Design Lab |
| 66. | B.Tech.-Electronics and Communication Engineering | 18ECECL4070 | Analog Circuits Lab |
| 67. | B.Tech.-Electronics and Communication Engineering | 18ECECL4080 | Analog & Digital Communications Lab |
| 68. | M.Tech.-Signal Processing | 18ECSP301 | Self-Learning Course |
| 69. | M.Tech.-Signal Processing | 18ECSP351 | Internship |
| 70. | M.Tech.-Signal Processing | 18ECSP352 | Project Phase-I |
| 71. | M.Tech.-Signal Processing | 18ECSP451 | Project Phase-II |
| 72. | M.Tech.-VLSI | 18ECVE301 | Self-Learning Course |
| 73. | M.Tech.-VLSI | 18ECVE351 | Internship |
| 74. | M.Tech.-VLSI | 18ECVE352 | Project Phase-I |
| 75. | M.Tech.-VLSI | 18ECVE451 | Project Phase-II |
| 76. | B.Tech.-Computer Science and Engineering | 18CSECT3020 | Digital Electronics |
| 77. | B.Tech.-Computer Science and Engineering | 18CSECT3030 | Analog Electronic Circuits |
| 78. | B.Tech.-Computer Science and Engineering | 18CSCST3040 | Discrete Mathematics |

| S.No. | Name of the Program | Course Code | Course Name |
|--------------|--|--------------------|-----------------------------------|
| 79. | B.Tech.-Computer Science and Engineering | 18CSCST3050 | Data Structures |
| 80. | B.Tech.-Computer Science and Engineering | 18CSECL3060 | Analog & Digital Electronics Lab |
| 81. | B.Tech.-Computer Science and Engineering | 18CSCSL3070 | IT Workshop Lab |
| 82. | B.Tech.-Computer Science and Engineering | 18CSCSL3080 | Data Structures Lab |
| 83. | B.Tech.-Computer Science and Engineering | 18CSECT4010 | Signals & Systems |
| 84. | B.Tech.-Computer Science and Engineering | 18CSCST4030 | Computer Organization |
| 85. | B.Tech.-Computer Science and Engineering | 18CSCST4040 | Algorithm Design and Analysis |
| 86. | B.Tech.-Computer Science and Engineering | 18CSCST4050 | Java Programming |
| 87. | B.Tech.-Computer Science and Engineering | 18CSCSL4060 | Computer Organization Lab |
| 88. | B.Tech.-Computer Science and Engineering | 18CSCSL4070 | Algorithm Design and Analysis Lab |
| 89. | B.Tech.-Computer Science and Engineering | 18CSCSL4080 | Java Programming Lab |
| 90. | M.Tech.-Computer Science and Engineering | 18CSCS304A | Mobile Applications and Services |
| 91. | M.Tech.-Computer Science and Engineering | 18CSCS304B | Compiler for HPC |
| 92. | M.Tech.-Computer Science and Engineering | 18CSCS304C | Optimization Techniques |
| 93. | M.Tech.-Computer Science and Engineering | 18CSCS305 | Internship with Seminar |
| 94. | M.Tech.-Computer Science and Engineering | 18CSCS306 | Project-I |
| 95. | M.Tech.-Computer Science and Engineering | 18CSCS406 | Project Phase-II |
| 96. | B.Tech.-Information Technology | 18ITECT3020 | Digital Electronics |
| 97. | B.Tech.-Information Technology | 18ITECT3030 | Analog Electronic Circuits |
| 98. | B.Tech.-Information Technology | 18ITITT3040 | Discrete Mathematics |
| 99. | B.Tech.-Information Technology | 18ITITT3050 | Data Structures |
| 100. | B.Tech.-Information Technology | 18ITECL3060 | Analog & Digital Electronics Lab |
| 101. | B.Tech.-Information Technology | 18ITITL3070 | IT Workshop Lab |
| 102. | B.Tech.-Information Technology | 18ITITL3080 | Data Structures Lab |
| 103. | B.Tech.-Information Technology | 18ITECT4010 | Signals & Systems |
| 104. | B.Tech.-Information Technology | 18ITITT4030 | Computer Organization |
| 105. | B.Tech.-Information Technology | 18ITITT4040 | Algorithm Design and Analysis |
| 106. | B.Tech.-Information Technology | 18ITITT4050 | Java Programming |
| 107. | B.Tech.-Information Technology | 18ITITL4060 | Computer Organization Lab |

| S.No. | Name of the Program | Course Code | Course Name |
|--------------|--------------------------------|--------------------|--|
| 108. | B.Tech.-Information Technology | 18ITITL4070 | Algorithm Design and Analysis Lab |
| 109. | B.Tech.-Information Technology | 18ITITL4080 | Java Programming Lab |
| 110. | PG-Management Science | 18MS03T1 | Strategic Management |
| 111. | PG-Management Science | 18MS03T2 | Legal Aspects of Business |
| 112. | PG-Management Science | 18MS03T3 | Business Ethics & Corporate Governance |
| 113. | PG-Management Science | 18MS03F4 | Security Analysis & Portfolio Management |
| 114. | PG-Management Science | 18MS03M4 | Consumer Behaviour |
| 115. | PG-Management Science | 18MS03H4 | Leadership Management |
| 116. | PG-Management Science | 18MS03F5 | Banking & Insurance Management |
| 117. | PG-Management Science | 18MS03M5 | Retail Marketing |
| 118. | PG-Management Science | 18MS03H5 | Compensation and Reward Management |
| 119. | PG-Management Science | 18MS03F6 | Advanced Cost & Management Accounting |
| 120. | PG-Management Science | 18MS03M6 | Customer Relationship Management |
| 121. | PG-Management Science | 18MS03H6 | Performance Management |
| 122. | PG-Management Science | 18MS03F7 | Strategic Financial Management |
| 123. | PG-Management Science | 18MS03M7 | Strategic Marketing Management |
| 124. | PG-Management Science | 18MS03H7 | Strategic Human Resource Management |
| 125. | PG-Management Science | 18MS03C8 | Case Study* |
| 126. | PG-Management Science | 18MS04T1 | Logistics & Supply Chain Management |
| 127. | PG-Management Science | 18MS04T2 | Entrepreneurship Development |
| 128. | PG-Management Science | 18MS04F3 | Financial Markets & Service |
| 129. | PG-Management Science | 18MS04M3 | Services Marketing |
| 130. | PG-Management Science | 18MS04H3 | Global HRM |
| 131. | PG-Management Science | 18MS04F4 | Global Financial Management |
| 132. | PG-Management Science | 18MS04M4 | Promotion & Distribution Management |
| 133. | PG-Management Science | 18MS04H4 | Organizational Development and Change Management |
| 134. | PG-Management Science | 18MS04F5 | Financial Risk Management |
| 135. | PG-Management Science | 18MS04M5 | Global Marketing Management |

| S.No. | Name of the Program | Course Code | Course Name |
|-------|-----------------------|-------------|------------------------------------|
| 136. | PG-Management Science | 18MS04H5 | Labour Welfare Legislation |
| 137. | PG-Management Science | 18MS04F6 | Tax Management |
| 138. | PG-Management Science | 18MS04M6 | Product & Brand Management |
| 139. | PG-Management Science | 18MS04H6 | Management of Industrial Relations |
| 140. | PG-Management Science | 18MS04P8 | Internship/Project and Viva Voce |


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List of new courses introduced in the programs in the Academic Year 2018-19

| S.No | Name of the Program | Course Code | Course Name |
|------|--|-------------|---|
| 1. | B.Tech.-Civil Engineering | 18CMEGT1010 | Technical English |
| 2. | B.Tech.-Civil Engineering | 18CMMAT1020 | Engineering Mathematics-I |
| 3. | B.Tech.-Civil Engineering | 18CMCHT1030 | Engineering Chemistry |
| 4. | B.Tech.-Civil Engineering | 18CMEET1040 | Basic Electrical Engineering |
| 5. | B.Tech.-Civil Engineering | 18CMEGL1050 | English Communication skills lab |
| 6. | B.Tech.-Civil Engineering | 18CMCHL1060 | Engineering Chemistry Lab |
| 7. | B.Tech.-Civil Engineering | 18CMEEL1070 | Basic Electrical Engineering Lab |
| 8. | B.Tech.-Civil Engineering | 18CMMSN1080 | Constitution of India, professional ethics & human rights |
| 9. | B.Tech.-Civil Engineering | 18CMMAT2010 | Engineering Mathematics II |
| 10. | B.Tech.-Civil Engineering | 18CEPHT2020 | Engineering Physics |
| 11. | B.Tech.-Civil Engineering | 18CMCST2030 | Programming for problem solving |
| 12. | B.Tech.-Civil Engineering | 18CMMEL2040 | Engineering Graphics |
| 13. | B.Tech.-Civil Engineering | 18CEPHL2050 | Engineering Physics Lab |
| 14. | B.Tech.-Civil Engineering | 18CMCSL2060 | Programming for problem solving lab |
| 15. | B.Tech.-Civil Engineering | 18CMMEL2070 | Work Shop/ Manufacturing practice |
| 16. | B.Tech.-Civil Engineering | 18CMCHN2080 | Environmental Science |
| 17. | B.Tech.-Electrical & Electronics Engineering | 18EEPHT2020 | Engineering Physics |
| 18. | B.Tech.-Electrical & Electronics Engineering | 18EEPHL2050 | Engineering Physics Lab |
| 19. | M.Tech.-Power Electronics | 18EEPE101 | Modelling and Analysis of Electrical Machines |
| 20. | M.Tech.-Power Electronics | 18EEPE102 | Analysis of Power Electronic Converters |
| 21. | M.Tech.-Power Electronics | 18EEPE103 | Power Semiconductor Devices and Modelling |
| 22. | M.Tech.-Power Electronics | 18EEPE104 | Power Electronic Control of DC Drives |

| S.No | Name of the Program | Course Code | Course Name |
|-------------|--------------------------------|--------------------|---|
| 23. | M.Tech.-Power Electronics | 18EEPE105A | Special Electrical Machines |
| 24. | M.Tech.-Power Electronics | 18EEPE105B | HVDC Transmission |
| 25. | M.Tech.-Power Electronics | 18EEPE106A | Hybrid and Electrical Vehicles |
| 26. | M.Tech.-Power Electronics | 18EEPE106B | Static VAR Controllers and Harmonic Filtering |
| 27. | M.Tech.-Power Electronics | 18EEPE151 | Systems Simulation Laboratory |
| 28. | M.Tech.-Power Electronics | 18EEPE201 | Power Electronic Control of AC Drives |
| 29. | M.Tech.-Power Electronics | 18EEPE202 | Power Converters for Renewable Energy Systems |
| 30. | M.Tech.-Power Electronics | 18EEPE203 | Custom Power Devices |
| 31. | M.Tech.-Power Electronics | 18EEPE204A | Artificial Intelligence Techniques |
| 32. | M.Tech.-Power Electronics | 18EEPE204B | Digital Controllers |
| 33. | M.Tech.-Power Electronics | 18EEPE205A | Modelling & Simulation of Power Electronics and Drive Systems |
| 34. | M.Tech.-Power Electronics | 18EEPE205B | Smart Grid Technologies |
| 35. | M.Tech.-Power Electronics | 18EEPE206A | Switch Mode and Resonant Converters |
| 36. | M.Tech.-Power Electronics | 18EEPE206B | Optimization Techniques |
| 37. | M.Tech.-Power Electronics | 18EEPE251 | Electrical Drives Laboratory |
| 38. | M.Tech.-Power Electronics | 18EEPE252 | Term Paper with seminar |
| 39. | B.Tech.-Mechanical Engineering | 18MEPHT2020 | Engineering Physics |
| 40. | B.Tech.-Mechanical Engineering | 18CMPHL2050 | Engineering Physics Lab |
| 41. | M.Tech.-CAD/CAM | 18MECC101 | Advanced Optimization Techniques |
| 42. | M.Tech.-CAD/CAM | 18MECC102 | Geometric Modelling |
| 43. | M.Tech.-CAD/CAM | 18MECC103 | Computer Integrated Manufacturing |
| 44. | M.Tech.-CAD/CAM | 18MECC104 | Industrial Robotics |
| 45. | M.Tech.-CAD/CAM | 18MECC105A | Special Manufacturing Processes |
| 46. | M.Tech.-CAD/CAM | 18MECC105B | Nano Technology |
| 47. | M.Tech.-CAD/CAM | 18MECC105C | Mechatronics |
| 48. | M.Tech.-CAD/CAM | 18MECC106A | Intelligent Manufacturing Systems |
| 49. | M.Tech.-CAD/CAM | 18MECC106B | Computational Fluid Dynamics |
| 50. | M.Tech.-CAD/CAM | 18MECC106C | Non-Destructive Evaluation |
| 51. | M.Tech.-CAD/CAM | 18MECC151 | Modelling and Analysis of Manufacturing |

| S.No | Name of the Program | Course Code | Course Name |
|------|--|-------------|---|
| 52. | M.Tech.-CAD/CAM | 18MECC201 | Computational Methods in Engineering |
| 53. | M.Tech.-CAD/CAM | 18MECC202 | Finite Element Methods |
| 54. | M.Tech.-CAD/CAM | 18MECC203 | Computer Graphics |
| 55. | M.Tech.-CAD/CAM | 18MECC204 | Mechanics and Manufacturing Methods of Composites |
| 56. | M.Tech.-CAD/CAM | 18MECC205A | Quality Engineering in Manufacturing |
| 57. | M.Tech.-CAD/CAM | 18MECC205B | Fracture Mechanics |
| 58. | M.Tech.-CAD/CAM | 18MECC205C | Simulation Modeling of Manufacturing Systems |
| 59. | M.Tech.-CAD/CAM | 18MECC206A | Mechanical Vibrations |
| 60. | M.Tech.-CAD/CAM | 18MECC206B | Design for Manufacturing |
| 61. | M.Tech.-CAD/CAM | 18MECC206C | Computer Aided Process Planning |
| 62. | M.Tech.-CAD/CAM | 18MECC251 | Term Paper with Seminar |
| 63. | M.Tech.-CAD/CAM | 18MECC252 | FEA Lab |
| 64. | B.Tech.- Electronics & Communication Engineering | 18CMMAT1010 | Engineering Mathematics-I |
| 65. | B.Tech.- Electronics & Communication Engineering | 18ECPHT1020 | Engineering Physics |
| 66. | B.Tech.- Electronics & Communication Engineering | 18CMCST1030 | Programming for problem solving |
| 67. | B.Tech.- Electronics & Communication Engineering | 18CMMEL1040 | Engineering Graphics |
| 68. | B.Tech.- Electronics & Communication Engineering | 18ECPHL1050 | Engineering Physics Lab |
| 69. | B.Tech.- Electronics & Communication Engineering | 18CMCSL1060 | Programming for problem solving lab |
| 70. | B.Tech.- Electronics & Communication Engineering | 18CMMEL1070 | Work Shop/Manufacturing practice |
| 71. | B.Tech.- Electronics & Communication Engineering | 18CMMEL1080 | Environmental Science |
| 72. | B.Tech.- Electronics & Communication Engineering | 18CMEGT2010 | Technical English |
| 73. | B.Tech.- Electronics & Communication Engineering | 18CMMAT2020 | Engineering Mathematics II |
| 74. | B.Tech.- Electronics & Communication Engineering | 18CMCHT2030 | Engineering Chemistry |
| 75. | B.Tech.- Electronics & Communication Engineering | 18CMEET2040 | Basic Electrical Engineering |
| 76. | B.Tech.- Electronics & Communication Engineering | 18CMEGL2050 | English Communication skills lab |
| 77. | B.Tech.- Electronics & Communication Engineering | 18CMCHL2060 | Engineering Chemistry Lab |
| 78. | B.Tech.- Electronics & Communication Engineering | 18CMEEL2070 | Basic Electrical Engineering Lab |
| 79. | B.Tech.- Electronics & Communication Engineering | 18CMMSN2080 | Constitution of India, professional ethics & human rights |
| 80. | M.Tech.-Signal Processing | 18ECSP101 | Advanced Digital Communication |

| S.No | Name of the Program | Course Code | Course Name |
|-------------|----------------------------|--------------------|--|
| 81. | M.Tech.-Signal Processing | 18ECSP102 | Optical Networks |
| 82. | M.Tech.-Signal Processing | 18ECSP103 | Wireless Communication |
| 83. | M.Tech.-Signal Processing | 18ECSP104 | Advanced Digital Signal Processing |
| 84. | M.Tech.-Signal Processing | 18ECSP105 | Statistical Signal Processing |
| 85. | M.Tech.-Signal Processing | 18ECSP106A | Multimedia over Communication |
| 86. | M.Tech.-Signal Processing | 18ECSP106B | Communication System Design using DSP |
| 87. | M.Tech.-Signal Processing | 18ECSP106C | Radar Signal Processing |
| 88. | M.Tech.-Signal Processing | 18ECSP106D | VLSI Design for Signal Processing |
| 89. | M.Tech.-Signal Processing | 18ECSP151 | Digital Signal Processing Laboratory |
| 90. | M.Tech.-Signal Processing | 18ECSP201 | Coding Theory and Applications |
| 91. | M.Tech.-Signal Processing | 18ECSP202 | Antenna Theory and Design |
| 92. | M.Tech.-Signal Processing | 18ECSP203 | Image Processing and Machine Vision |
| 93. | M.Tech.-Signal Processing | 18ECSP204 | Adaptive Signal Processing |
| 94. | M.Tech.-Signal Processing | 18ECSP205 | DSP Processors and Architectures |
| 95. | M.Tech.-Signal Processing | 18ECSP206A | Embedded System Design |
| 96. | M.Tech.-Signal Processing | 18ECSP206B | Modern Spectrum Analysis and Estimation |
| 97. | M.Tech.-Signal Processing | 18ECSP206C | Speech and Audio Processing |
| 98. | M.Tech.-Signal Processing | 18ECSP251 | Advanced Communication Laboratory |
| 99. | M.Tech.-Signal Processing | 18ECSP252 | Term paper with Seminar |
| 100. | M.Tech-VLSI | 18ECVE101 | Programming Concepts using Verilog HDL |
| 101. | M.Tech-VLSI | 18ECVE102 | CMOS Analog IC Design |
| 102. | M.Tech-VLSI | 18ECVE103 | IC Fabrication Technology |
| 103. | M.Tech-VLSI | 18ECVE104A | CPLD and FPGA Architectures and Applications |
| 104. | M.Tech-VLSI | 18ECVE104B | Digital System Synthesis and Verification |
| 105. | M.Tech-VLSI | 18ECVE104C | Advanced Digital Design |
| 106. | M.Tech-VLSI | 18ECVE105 | Principles of Embedded Systems |
| 107. | M.Tech-VLSI | 18ECVE106A | Microcontrollers for Embedded System Design |
| 108. | M.Tech-VLSI | 18ECVE106B | Embedded and Real Time Systems |
| 109. | M.Tech-VLSI | 18ECVE106C | Network Security and Cryptography |

| S.No | Name of the Program | Course Code | Course Name |
|-------------|--|--------------------|---|
| 110. | M.Tech-VLSI | 18ECVE151 | Digital VLSI and Embedded System Design Lab |
| 111. | M.Tech-VLSI | 18ECVE201 | Low Power VLSI Design |
| 112. | M.Tech-VLSI | 18ECVE202 | VLSI Testing and Testability |
| 113. | M.Tech-VLSI | 18ECVE203 | VLSI Design Automation |
| 114. | M.Tech-VLSI | 18ECVE204A | Functional Verification using Hardware Verification Languages |
| 115. | M.Tech-VLSI | 18ECVE204B | System-on-Chip design |
| 116. | M.Tech-VLSI | 18ECVE204C | CMOS Mixed Signal Circuit Design |
| 117. | M.Tech-VLSI | 18ECVE205 | Hardware Software Co-Design |
| 118. | M.Tech-VLSI | 18ECVE206A | Embedded System Design |
| 119. | M.Tech-VLSI | 18ECVE206B | Internet of Things |
| 120. | M.Tech-VLSI | 18ECVE206C | Sensors and Actuators |
| 121. | M.Tech-VLSI | 18ECVE206D | Micro Electro Mechanical System (MEMS) Design |
| 122. | M.Tech-VLSI | 18ECVE251 | Analog VLSI Design Lab |
| 123. | M.Tech-VLSI | 18ECVE252 | Seminar with term paper |
| 124. | B.Tech.-Computer Science & Engineering | 18CSPHT1020 | Engineering Physics |
| 125. | B.Tech.-Computer Science & Engineering | 18CSPHL1050 | Engineering Physics lab |
| 126. | M.Tech.-Computer Science & Engineering | 18CSCS101 | Research Methodology & IPR |
| 127. | M.Tech.-Computer Science & Engineering | 18CSCS102 | Mathematical Foundations of Computer Science |
| 128. | M.Tech.-Computer Science & Engineering | 18CSCS103 | Advanced Data Structures |
| 129. | M.Tech.-Computer Science & Engineering | 18CSCS104 | Artificial Intelligence |
| 130. | M.Tech.-Computer Science & Engineering | 18CSCS105A | Machine Learning |
| 131. | M.Tech.-Computer Science & Engineering | 18CSCS105B | Wireless Sensor Networks |
| 132. | M.Tech.-Computer Science & Engineering | 18CSCS105C | Intelligent Systems |
| 133. | M.Tech.-Computer Science & Engineering | 18CSCS106A | Data Science |
| 134. | M.Tech.-Computer Science & Engineering | 18CSCS106B | Advanced Wireless and Mobile Networks |
| 135. | M.Tech.-Computer Science & Engineering | 18CSCS106C | Distributed Systems |
| 136. | M.Tech.-Computer Science & Engineering | 18CSCS151 | Advanced Data Structures Lab |
| 137. | M.Tech.-Computer Science & Engineering | 18CSCS201 | Data Warehouse and Data Mining |
| 138. | M.Tech.-Computer Science & Engineering | 18CSCS202 | Advanced Algorithms |

| S.No | Name of the Program | Course Code | Course Name |
|-------------|--|--------------------|---|
| 139. | M.Tech.-Computer Science & Engineering | 18CSCS203 | Soft Computing |
| 140. | M.Tech.-Computer Science & Engineering | 18CSCS204A | Data Preparation and Analysis |
| 141. | M.Tech.-Computer Science & Engineering | 18CSCS204B | Secure Software Design & Enterprise Computing |
| 142. | M.Tech.-Computer Science & Engineering | 18CSCS204C | Computer Vision |
| 143. | M.Tech.-Computer Science & Engineering | 18CSCS205A | Human Computer Interaction |
| 144. | M.Tech.-Computer Science & Engineering | 18CSCS205B | GPU Computing |
| 145. | M.Tech.-Computer Science & Engineering | 18CSCS205C | Digital Forensics |
| 146. | M.Tech.-Computer Science & Engineering | 18CSCS206A | Business Analytics |
| 147. | M.Tech.-Computer Science & Engineering | 18CSCS206B | Industrial Safety |
| 148. | M.Tech.-Computer Science & Engineering | 18CSCS206C | Operations Research |
| 149. | M.Tech.-Computer Science & Engineering | 18CSCS206D | Cost Management of Engineering Projects |
| 150. | M.Tech.-Computer Science & Engineering | 18CSCS206E | Composite Materials |
| 151. | M.Tech.-Computer Science & Engineering | 18CSCS206F | Waste to Energy |
| 152. | M.Tech.-Computer Science & Engineering | 18CSCS207 | Advanced Algorithms Lab |
| 153. | M.Tech.-Computer Science & Engineering | 18CSCS2080 | Term Paper with Seminar |
| 154. | B.Tech.-Information Technology | 18ITPHT1020 | Engineering Physics |
| 155. | B.Tech.-Information Technology | 18ITPHL1050 | Engineering Physics lab |
| 156. | PG-Management Science | 18MS01T1 | Principles of Management |
| 157. | PG-Management Science | 18MS01T2 | Managerial Economics |
| 158. | PG-Management Science | 18MS01T3 | Accounting For Managers |
| 159. | PG-Management Science | 18MS01T4 | Managerial Communication & Soft Skills |
| 160. | PG-Management Science | 18MS01T5 | Quantitative Analysis for Business Decisions |
| 161. | PG-Management Science | 18MS01T6 | Business Environment |
| 162. | PG-Management Science | 18CS01L7 | Information Technology Lab |
| 163. | PG-Management Science | 18MS01C8 | Case Study* |
| 164. | PG-Management Science | 18MS02T1 | Financial Management |
| 165. | PG-Management Science | 18MS02T2 | Marketing Management |
| 166. | PG-Management Science | 18MS02T3 | Human Resource Management |
| 167. | PG-Management Science | 18MS02T4 | Production & Operations Management |

| S.No | Name of the Program | Course Code | Course Name |
|------|-----------------------|-------------|--------------------------|
| 168. | PG-Management Science | 18MS02T5 | Research Methodology |
| 169. | PG-Management Science | 18MS02T6 | Organisational Behaviour |
| 170. | PG-Management Science | 18MS02P7 | Seminar on Mini Project |
| 171. | PG-Management Science | 18MS02C8 | Case Study* |


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Highlighted Course Structures for the Academic Year 2022-23

| S.No. | Name of the program | Page No. |
|-------|---|----------|
| 1. | B.Tech.-Civil Engineering | 01-16 |
| 2. | B.Tech.-Electrical and Electronics Engineering | 17-27 |
| 3. | B.Tech.-Mechanical Engineering | 30-40 |
| 4. | B.Tech.-Electronics and Communication Engineering | 43-49 |
| 5. | B.Tech.-Computer Science Engineering | 64-77 |
| 6. | B.Tech.-Computer Science and Technology | 84-95 |
| 7. | B.Tech.-Information Technology | 96-106 |
| 8. | B.Tech.-Electronics and Communication Technology | 107-118 |
| 9. | B.Tech.-Computer Science and Engineering (Artificial Intelligence and Machine Learning) | |
| 10. | B.Tech.-Computer Science and Engineering (Data Science) | 125-126 |
| 11. | B.Tech.-Computer Science and Engineering (Internet of Things and Cyber Security Including Block Chain Technology) | 127-128 |
| 12. | B.Tech.-Artificial Intelligence and Machine Learning | 119-124 |
| 13. | Master's in Business Administration | 129-131 |
| 14. | M.Tech.-Computer Aided Design & Computer Aided Manufacture | 41-42 |
| 15. | M.Tech.-Power Electronics | 28-29 |
| 16. | M.Tech.-Communication Engineering and Signal Processing | 60-61 |
| 17. | M.Tech.-Computer Science and Engineering | 78-83 |
| 18. | M.Tech. VLSI and Embedded Systems | 62-63 |


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Highlighted Course Structures for the Academic Year 2021-22

| S.No. | Name of the program | Page No. |
|-------|--|----------|
| 1. | B.Tech.-Civil Engineering | 01-17 |
| 2. | B.Tech.-Electrical and Electronics Engineering | 18-27 |
| 3. | B.Tech.-Mechanical Engineering | 31-40 |
| 4. | B.Tech.-Electronics and Communication Engineering | 43-58 |
| 5. | B.Tech.-Computer Science Engineering | 63-71 |
| 6. | B.Tech.-Computer Science and Technology | 86-97 |
| 7. | B.Tech.-Information Technology | 98-107 |
| 8. | B.Tech.-Electronics and Communication Technology | 109-119 |
| 9. | B.Tech.-Artificial Intelligence and Machine Learning | 120-125 |
| 10. | Master's in Business Administration | 126-129 |
| 11. | M.Tech.-Computer Aided Design & Computer Aided Manufacture | 41-42 |
| 12. | M.Tech.-Power Electronics | 28-29 |
| 13. | M.Tech.-Communication Engineering and Signal Processing | 59-60 |
| 14. | M.Tech.-Computer Science and Engineering | 72-76 |
| 15. | M.Tech. VLSI and Embedded Systems | 61-62 |


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Highlighted Course Structures for the Academic Year 2020-21

| S.No. | Name of the program | Page No. |
|-------|---|----------|
| 1. | B.Tech.-Civil Engineering | 01-08 |
| 2. | B.Tech.-Electrical and Electronics Engineering | 09-11 |
| 3. | B.Tech.-Mechanical Engineering | 12-16 |
| 4. | B.Tech.-Electronics and Communication Engineering | 17-20 |
| 5. | B.Tech.-Computer Science Engineering | 21-28 |
| 6. | B.Tech.-Computer Science and Technology | 29-33 |
| 7. | B.Tech.-Information Technology | 34-37 |
| 8. | B.Tech.-Electronics and Communication Technology | 40-45 |
| 9. | Master's in Business Administration | 46-49 |
| 10. | M.Tech.-Computer Aided Design & Computer Adided Manufacture | -- |
| 11. | M.Tech.-Power Electronics | -- |
| 12. | M.Tech.-Communication Engineering and Signal Processing | -- |
| 13. | M.Tech.-Computer Science and Engineering | -- |
| 14. | M.Tech. VLSI and Embedded Systems | -- |


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Highlighted Course Structures for the Academic Year 2019-20

| S.No. | Name of the program | Page No. |
|-------|---|----------|
| | B.Tech.-Civil Engineering | 01-05 |
| | B.Tech.-Electrical and Electronics Engineering | 07-11 |
| | B.Tech.-Mechanical Engineering | 14-18 |
| | B.Tech.-Electronics and Communication Engineering | 21-25 |
| | B.Tech.-Computer Science Engineering | 30-35 |
| 1. | B.Tech.-Information Technology | 38-42 |
| 2. | Master's in Business Administration | 43-46 |
| 3. | M.Tech.-Computer Aided Design & Computer Adided Manufacture | 19-20 |
| 4. | M.Tech.-Power Electronics | 12-13 |
| 5. | M.Tech.-Computer Science and Engineering | 36-37 |
| 6. | M.Tech.-Communication Engineering and Signal Processing | 26-27 |
| 7. | M.Tech. VLSI and Embedded Systems | 28-29 |


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Highlighted Course Structures for the Academic Year 2018-19

| S.No. | Name of the program | Page No. |
|-------|--|----------|
| 1. | B.Tech.-Civil Engineering | 01-06 |
| 2. | B.Tech.-Electrical and Electronics Engineering | 07-11 |
| 3. | B.Tech.-Mechanical Engineering | 13-17 |
| 4. | B.Tech.-Electronics and Communication Engineering | 20-24 |
| 5. | B.Tech.-Computer Science Engineering | 29-34 |
| 6. | B.Tech.-Information Technology | 37-41 |
| 7. | Master's in Business Administration | 42-45 |
| 8. | M.Tech.-Computer Aided Design & Computer Aided Manufacture | 18-19 |
| 9. | M.Tech.-Power Electronics | 12-00 |
| 10. | M.Tech.-Communication Engineering and Signal Processing | 25-26 |
| 11. | M.Tech.-Computer Science and Engineering | 35-36 |
| 12. | M.Tech. VLSI and Embedded Systems | 27-28 |


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