



KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL
MINOR IN COMPUTER SCIENCE AND ENGINEERING (IoT) (MCS)

MINOR CURRICULUM-1

[For circuit branches: *E&IE, EEE, and ECE*]

EQUIVALENT MOOCs - ODD SEMESTER, JULY-DEC 2023, AY 2023-24

| MINOR COMPULSORY COURSES | | | EQUIVALENT COURSES OFFERED BY SWAYAM-NPTEL | | | |
|---|-------------|------------------------------------|--|---|--|---|
| S.No | Course Code | Course Name | Course Name, Duration & Course Code | C | Course Dates* | Course Enrollment Link |
| 1 | U18MIN1001 | Fundamentals of Internet Of Things | Introduction To Internet Of Things (12 weeks) noc23-cs83 | 3 | CCD: July 24, 2023 to Oct 13, 2023 LDR: Jul 31, 2023 | https://onlinecourses.nptel.ac.in/noc23_cs83/preview |
| 2 | U18MIN1002 | Industrial Internet Of Things | Introduction To Industry 4.0 And Industrial Internet Of Things (12 weeks) noc23-cs82 | 3 | CCD: July 24, 2023 to Oct 13, 2023 LDR: Jul 31, 2023 | https://onlinecourses.nptel.ac.in/noc23_cs82/preview |
| MINORELECTIVE COURSES (any 3 to 6 courses) | | | | | | |
| 3 | U18MIN1003 | Privacy and Security in IoT | NOT AVAILABLE THIS SEMESTER | | | |
| 4 | U18MIN1004 | Cloud Computing | Cloud Computing (12 weeks) noc23-cs89 | 3 | CCD: July 24, 2023 to Oct 13, 2023 LDR: Jul 31, 2023 | https://onlinecourses.nptel.ac.in/noc23_cs89/preview |
| 5 | U18MIN1005 | Operating Systems | Operating System Fundamentals (12 weeks) noc23-cs123 | 3 | CCD: July 24, 2023 to Oct 13, 2023 LDR: Jul 31, 2023 | https://onlinecourses.nptel.ac.in/noc23_cs123/preview |
| 6 | U18MC10 | Python Programming for | NOT AVAILABLE THIS SEMESTER | | CCD: | -- |

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|----|------------|---|---|---|---------------------------------------|---|
| | 06 | Internet Of Things | | | LDR: | |
| 7 | U18MIN1007 | Sensor Technology | NOT AVAILABLE THIS SEMESTER | | CCD: | -- |
| | | | | | LDR: | |
| 8 | U18MIN1008 | Mobile Computing | NOT AVAILABLE THIS SEMESTER | | CCD: | -- |
| | | | | | LDR: | |
| 9 | U18MIN1009 | Design and analysis of Algorithms | Design and analysis of Algorithms (8 weeks) noc23-cs96 | 2 | CCD: July 24,2023 to Sep 15,2023 | https://onlinecourses.nptel.ac.in/noc23_cs96/preview |
| | | | | | LDR: Jul 31, 2023 | |
| 10 | U18MIN1010 | Machine Learning | Introduction to Machine Learning (12 weeks) noc23-cs98 | 3 | CCD: July 24,2023 to Oct 13,2023 | https://onlinecourses.nptel.ac.in/noc23_cs98/preview |
| | | | | | LDR: Jul 31, 2023 | |
| 11 | U18MIN1011 | Data Mining | Data Mining (12 weeks) noc23-cs12 | 4 | CCD: July 31, 2023 to Oct22, 2023 | https://onlinecourses.swayam2.a.c.in/cec23_cs12/preview |
| | | | | | LDR: Aug 31, 2023 | |
| 12 | U18MIN1012 | Artificial Intelligence | Fundamentals of Artificial Intelligence (12 weeks) noc23-ge40 | 3 | CCD: July 24, 2023 to Oct 13, 2023 | https://onlinecourses.nptel.ac.in/noc23_ge40/preview |
| | | | | | LDR: Jul 31, 2023 | |
| 13 | U18MIN1013 | Introduction to Automata, Languages and Computation | Theory of Computation (8 weeks) noc23-cs70 | 2 | CCD: July 24, 2023 to Sep 15, 2023 | https://onlinecourses.nptel.ac.in/noc23_cs70/preview |
| | | | | | LDR: Jul 31, 2023 | |
| 14 | U18MIN1014 | Compiler Design | NOT AVAILABLE THIS SEMESTER | | CCD: | -- |
| | | | | | LDR: | |
| 15 | U18MIN1015 | Introduction to Robotics Systems | NOT AVAILABLE THIS SEMESTER | | | |
| 16 | U18MIN1016 | Data Base Management System | Data Base Management System (8 weeks) noc23-cs79 | 2 | CCD: July 24,2023 to Sep 15,2023 | https://onlinecourses.nptel.ac.in/noc23_cs79/preview |
| | | | | | LDR: Jul 31, 2023 | |
| 17 | U18MIN1017 | Software Engineering | Software Engineering | 3 | CCD: July 24,2023 | https://onlinecourses.nptel.ac.in/ |

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| | | | (12 weeks) noc23-cs122 | | to Oct 13,2023 LDR: Jul 31, 2023 | noc23_cs122/preview |
| 18 | U18MIN1018 | Big Data Analytics | Big Data Computing (8 weeks) noc23-cs112 | 2 | CCD: Aug 21,2023 to Oct 13,2023 LDR: Aug21, 2023 | https://onlinecourses.nptel.ac.in/noc23_cs112/preview |

*C: Credits; CCD: Course Commencement Date; LDR: Last Date of Registration

| S.No | MINOR LABORATORY COURSES | Laboratory Courses (any 2 courses) - TO BE TAKEN IN THE MINOR DEPARTMENT | | | |
|------|--------------------------------|--|---|-----------------------------------|-------------|
| 19 | | U18MIN1019 | Introduction To Internet Of Things Laboratory | | |
| 20 | | U18MIN1020 | Industrial Internet Of Things Laboratory | | |
| | | | | <i>Total Credits to be earned</i> | 18+2 |

Date: **MOOCs Coordinator** **Head of the Department** **Dean, Academic Affairs**