



**KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL**  
**HONOURS IN COMPUTER SCIENCE AND ENGINEERING (HCS)**  
**HONOURS CURRICULUM**  
**EQUIVALENT MOOCs - ODD SEMESTER, JULY-DEC 2023, AY 2023-24**

| <b>HONOURS ELECTIVE COURSES</b><br><i>(any 6 to 9 courses to earn 18 credits)</i> |             |                                     | <b>EQUIVALENT COURSES OFFERED BY SWAYAM-NPTEL</b>              |    |  |   |
|---|-------------|-------------------------------------|--|----|--|---|
| S.No.   | Course Code | Course Name                         | Course Name, Duration & Course Code                            | C* | Course Dates*  | Course Enrollment Link  |
| 1   | U18HCS001   | Data Science                        | Data Science for Engineers<br>(8 weeks)<br>noc23-cs97          | 2  | CCD: July 24, 2023<br>to Sep 15,2023<br><br>LDR: Jul 31 <sup>st</sup> , 2023   | <a href="https://onlinecourses.nptel.ac.in/noc23_cs97/preview">https://onlinecourses.nptel.ac.in/noc23_cs97/preview</a>   |
| 2   | U18HCS1002  | Reinforcement Learning              | Reinforcement Learning<br>(12 weeks)<br>noc23-cs100            | 3  | CCD: July 24, 2023. to<br>Oct 13, 2023<br><br>LDR: Jul 31 <sup>st</sup> , 2023 | <a href="https://onlinecourses.nptel.ac.in/noc23_cs100/preview">https://onlinecourses.nptel.ac.in/noc23_cs100/preview</a> |
| 3   | U18HCS1003  | Applied Natural Language Processing | Natural Language Processing<br>(12 weeks)<br>noc23-cs80        | 3  | CCD: July 24, 2023. to<br>Oct 13, 2023<br><br>LDR: Jul 31 <sup>st</sup> , 2023 | <a href="https://onlinecourses.nptel.ac.in/noc23_cs80/preview">https://onlinecourses.nptel.ac.in/noc23_cs80/preview</a>   |
| 4   | U18HCS1004  | Deep Learning for Computer Vision   | Deep Learning for Computer Vision<br>(12 weeks)<br>noc23-cs126 | 3  | CCD: July 24, 2023. to<br>Oct 13, 2023<br><br>LDR: Jul 31 <sup>st</sup> , 2023 | <a href="https://onlinecourses.nptel.ac.in/noc23_cs126/preview">https://onlinecourses.nptel.ac.in/noc23_cs126/preview</a> |
| 5   | U18HCS1005  | Object Oriented System Development  | <b>NOT AVAILABLE THIS SEMESTER</b>                             |    | CCD:<br><br>LDR:   | --  |

|    |            |   |  |   |                                   |   |
|----|------------|---|--|---|-----------------------------------|---|
| 6  | U18HCS1006 | Embedded Systems Design                               | <b>NOT AVAILABLE THIS SEMESTER</b>                                   |   | CCD:                              | --  |
|    |            |   |  |   | LDR:                              |   |
| 7  | U18HCS1007 | Soft Computing  | <b>NOT AVAILABLE THIS SEMESTER</b>                                   |   | CCD:                              | --  |
|    |            |   |  |   | LDR:                              |   |
| 8  | U18HCS1008 | Privacy and Security issues in Cloud and Social Media | Privacy and Security in Online Social Media (12 weeks)<br>noc23-cs69 | 3 | CCD: July 24, 2023 to Oct 13,2023 | <a href="https://onlinecourses.nptel.ac.in/noc23_cs69/preview">https://onlinecourses.nptel.ac.in/noc23_cs69/preview</a>   |
|    |            |   |  |   | LDR: Jul 31 <sup>st</sup> , 2023  |   |
| 9  | U18HCS1009 | Computational Geometry                                | Computational Complexity (12 weeks)<br>noc23-cs111                   | 3 | CCD: July 24, 2023 to Oct 13,2023 | <a href="https://onlinecourses.nptel.ac.in/noc23_cs111/preview">https://onlinecourses.nptel.ac.in/noc23_cs111/preview</a> |
|    |            |   |  |   | LDR: Jul 31 <sup>st</sup> , 2023  |   |
| 10 | U18HCS1010 | Software Defined Networking                           | <b>NOT AVAILABLE THIS SEMESTER</b>                                   |   | CCD:                              | --  |
|    |            |   |  |   | LDR:                              |   |
| 11 | U18HCS1011 | Google Cloud Computing Foundations                    | Google Cloud Computing Foundations (8 weeks)<br>noc23-cs90           | 2 | CCD: Aug 21, 2023 to Oct 13,2023  | <a href="https://onlinecourses.nptel.ac.in/noc23_cs90/preview">https://onlinecourses.nptel.ac.in/noc23_cs90/preview</a>   |
|    |            |   |  |   | LDR: Aug 21 <sup>st</sup> , 2023  |   |
| 12 | U18HCS1012 | Parallel Programming in OpenMP                        | <b>NOT AVAILABLE THIS SEMESTER</b>                                   |   | CCD:                              | --  |
|    |            |   |  |   | LDR:                              |   |
| 13 | U18HCS1013 | Virtual Reality Technologies                          | <b>NOT AVAILABLE THIS SEMESTER</b>                                   |   | CCD:                              | --  |
|    |            |   |  |   | LDR:                              |   |

|    |            |                                      |                                    |  |      |    |
|----|------------|--------------------------------------|------------------------------------|--|------|----|
| 14 | U18HCS1014 | Block Chain Applications             | <b>NOT AVAILABLE THIS SEMESTER</b> |  | CCD: | -- |
|    |            |                                      |                                    |  | LDR: |    |
| 15 | U18HCS1015 | Apache Spark and Hadoop Technologies | <b>NOT AVAILABLE THIS SEMESTER</b> |  | CCD: | -- |
|    |            |                                      |                                    |  | LDR: |    |

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

|                                   |   |  |   |  |                      |
|-----------------------------------|---|--|---|--|----------------------|
| -                                 | <b>Honours<br/>Laboratory<br/>Courses</b> | <b>Laboratory Courses (any 2 courses) - TO BE TAKEN IN THE PARENT DEPARTMENT</b> |   |  |                      |
| 16                                |   | U18HCS1016   | Cloud Computing Laboratory                  |  | <b>2<br/>credits</b> |
| 17                                |   | U18HCS1017   | Data Science with R-Tool Laboratory         |  |                      |
| 18                                |   | U18HCS1018   | Machine Learning with Tensorflow Laboratory |  |                      |
| 19                                |   | U18HCS1019   | Image Processing with Python Laboratory     |  |                      |
| <i>Total Credits to be earned</i> |   |  |   |  | <b>18+2</b>          |

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