



**KAKATIYA INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL**  
**HONOURS IN CIVIL ENGINEERING (HCE)**  
**HONOURS CURRICULUM**  
**EQUIVALENT MOOCs – EVEN SEMESTER, JAN-APRIL 2025, AY 2024-25**

<b>HONOURS ELECTIVE COURSES</b> <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	<b>Mechanics of Materials</b>	Structural Analysis-I <b>noc25-ce54 (12 weeks)</b>	3	CCD: January 20, 2025 to March 14,2025  LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_ce54/preview">https://onlinecourses.nptel.ac.in/noc25_ce54/preview</a>
2	U18HCS1002	<b>Hydraulics Engineering</b>	Hydraulics Engineering <b>noc25-ce54 (12 weeks)</b>	3	CCD: January 20, 2025 to April 11,2025  LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_ce32/preview">https://onlinecourses.nptel.ac.in/noc25_ce32/preview</a>
3	U18HCS1003	<b>Theory of Elasticity</b>	<b>NOT AVAILABLE THIS SEMESTER</b>	-	CCD:  LDR:	—
4	U18HCS1004	<b>Design of Reinforced Concrete Structures</b>	Structural design <b>noc25-ce54 (12 weeks)</b>	3	CCD: January 20, 2025 to April 11,2025  LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_ce49/preview">https://onlinecourses.nptel.ac.in/noc25_ce49/preview</a>
5	U18HCS1005	<b>Engineering Geology</b>	Geology and Soil Mechanics <b>noc25-ce54 (12 weeks)</b>	3	CCD: January 20, 2025 to April 11,2025	<a href="https://onlinecourses.nptel.ac.in/noc25_ce24/preview">https://onlinecourses.nptel.ac.in/noc25_ce24/preview</a>

					LDR: Jan 27, 2025	
6	U18HCS1006	<b>Construction management and equipment</b>	Construction Methods and Equipment Management <b>noc25-ce54 (12 weeks)</b>	3	CCD: January 20, 2025 to April 11,2025 LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_ce11/preview">https://onlinecourses.nptel.ac.in/noc25_ce11/preview</a>
7	U18HCS1007	<b>Hydrology and water resources engineering</b>	Engineering Hydrology <b>noc25-ce54 (12 weeks)</b>	3	CCD: January 20, 2025 to March 14,2025 LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_ce17/preview">https://onlinecourses.nptel.ac.in/noc25_ce17/preview</a>
8	U18HCS1008	<b>Ground improvement techniques</b>	Advanced Soil Mechanics <b>noc25-ce54 (12 weeks)</b>	3	CCD: January 20, 2025 to March 14,2025 LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_ce02/preview">https://onlinecourses.nptel.ac.in/noc25_ce02/preview</a>
9	U18HCS1009	<b>Advanced Environmental Engineering</b>	Climate Change Science <b>noc25-ce54 (12 weeks)</b>	3	CCD: January 20, 2025 to March 14,2025 LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_ce09/preview">https://onlinecourses.nptel.ac.in/noc25_ce09/preview</a>
10	U18HCS1010	<b>Sustainable materials and green buildings</b>	Sustainable Engineering Concepts and Life Cycle Analysis <b>noc25-ce54 (12 weeks)</b>	3	CCD: January 20, 2025 to March 14,2025 LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_ce58/preview">https://onlinecourses.nptel.ac.in/noc25_ce58/preview</a>
11	U18HCS1011			3	CCD: January 20, 2025	

		<b>Earthquake resistant design of structures</b>	Earthquake Resistant Design of Foundations <b>noc25-ce54</b>		to March 14,2025  LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_ce14/preview">https://onlinecourses.nptel.ac.in/noc25_ce14/preview</a>
12	U18HCS1012	<b>Prestresses concrete</b>	<b>NOT AVAILABLE THIS SEMESTER</b>	-	CCD: LDR:	--
13	U18HCS1013	<b>Earth retaining structures</b>	Soil Structure Interaction <b>noc25-ce54</b>	3	CCD: January 20, 2025 to March 14,2025  LDR: Jan 27, 2025	<a href="https://onlinecourses.nptel.ac.in/noc25_ce52/preview">https://onlinecourses.nptel.ac.in/noc25_ce52/preview</a>
14	U18HCS1014	<b>Bridge engineering</b>	<b>NOT AVAILABLE THIS SEMESTER</b>	-	CCD: LDR	---
15	U18HCS1015	<b>Railway and airport engineering</b>	<b>NOT AVAILABLE THIS SEMESTER</b>	-	CCD: LDR:	--

- I. In exigency situations such as the student already completed the listed compulsory courses(s) on his/her own interest during previous semesters through valid MOOCs etc., the HoD in consultation with Dean-AA shall propose an alternative course(s) for the specific scenario, after verification of relevant documents.
- II. By the end of April of every academic year, the department in consultation with Dean-AA, shall
  - A. notify the list of equivalent courses in SWAYAM-NPTEL MOOCs / other standard MOOCs against the list of courses notified under Honours curriculum propose a new course(s) in the place of any listed course(s) in the Honours curriculum, in case no equivalent course is found in MOOCs

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

-	<b>Honours Laboratory Courses</b>	<b>Laboratory Courses (any 2 courses) – TO BE TAKEN IN THE PARENT DEPARTMENT</b>		
16		U18HCS1016	Structural Engineering software applications laboratory	<b>2 credits</b>
17		U18HCS1017	Project Management and Geomatics Laboratory	
18		U18HCS1018	Structural Engineering laboratory	

19		U18HCS1019	Applied Civil Engineering Software Laboratory	
<i>Total Credits to be earned</i>				<b>18+2</b>

**Date: 020.12.2024**

**MOOCs Coordinator**

**Head of the Department**

**Dean, Academic Affairs**