

HONOURS DEGREE IN <Civil Engineering>

Honors Degree in Structural Engineering

S.No.	Course Code	Course Name	Contact Hours per week		Credits
			L	T	
1		Cost Effective Housing Techniques	3	1	4
2		Pre- Engineered Buildings	3	1	4
3		Design of Bridges	3	1	4
4		Construction Economics & Finance	3	1	4
SUGGESTED MOOCs					
5		Advanced Concrete Technology https://onlinecourses.nptel.ac.in/noc22_ce58/preview	--	--	2
6		Optimization methods for Civil engineering https://onlinecourses.nptel.ac.in/noc22_ce83/preview	--	--	2

*-MOOC must be 12 week duration in SWAYAM/NPTEL

HONOURS DEGREE IN <Electrical & Electronics Engineering>

S.No.	Course Code	Course Name	Contact Hours per week		Credits
			L	T	
1		Electric Vehicle Technology & Mobility	3	1	4
2		Battery Management Systems	3	1	4
3		Special Machines for Electric Vehicles	3	1	4
4		Grid Interface of Electric Vehicles	3	1	4
SUGGESTED MOOCs					
5		Introduction to Hybrid and Electric Vehicles/ Available Courses under SWAYAM (MOOC-I*)	--	--	2
6		Electric Vehicles and Renewable Energy/ Available Courses under SWAYAM (MOOC-II*)	--	--	2

*-MOOC must be 12 week duration in SWAYAM/NPTEL

JNTUA COLLEGE OF ENGINEERING (AUTONOMOUS) Anantapur

COURSES OFFERED FOR HONOURS DEGREE IN

INTERNAL COMBUSTION ENGINEERING (offered only for Mechanical Students)

S.No.	Course Code	Course Title	Contact Hours per week		Credits
			L	T	
1		Internal combustion Engine Design	3	1	4
2		Engine Auxiliary Systems	3	1	4
3		Alternative fuels for I.C.Engines	3	1	4
4		Engine pollution and control	3	1	4
5		MOOC I: Hybrid and Electric Vehicles			2
6		MOOC II: Automotive Safety			2

*-MOOC must be 12 week duration in SWAYAM/NPTEL

DEPARTMENT OF ECE

HONOURS DEGREE IN ECE

S.No.	Course Code	Course Name	Contact Hours per week		Credits
			L	T	
1		Adaptive Signal Processing	3	1	4
2		5G Communications	3	1	4
3		Low power VLSI Design	3	1	4
4		Micro Electro-Mechanical Systems	3	1	4
SUGGESTED MOOCs					
5		VLSI related courses not studied earlier	--	--	2
6		Embedded Systems related courses not studied earlier	--	--	2

*-MOOC must be 12 week duration in SWAYAM/NPTEL

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
 COLLEGE OF ENGINEERING (Autonomous):: ANANTHAPURAMU
 DEPARTMENT COMPUTER SCIENCE AND ENGINEERING
 B.Tech. Course Structure (R20)

HONOUR DEGREE

S.No.	Course Code	Course Name	Contact Hours per week		Credits
			L	T	
1		Edge and Fog Computing	3	1	4
2		Quantum Computing	3	1	4
3		Introduction to Autonomous Navigation Systems	3	1	4
4		Reinforcement Learning	3	1	4
SUGGESTED MOOCs					
5		MOOC I*	--	--	2
6		MOOC II*	--	--	2

*-MOOC must be 12 week duration in SWAYAM/NPTEL

**HONOURS DEGREE IN <Chemical Engineering>
 Material Science & Engineering**

S.No.	Course Code	Course Name	Contact Hours per week		Credits
			L	T	
1		Surface Engineering	3	1	4
2		Powder Metallurgy	3	1	4
3		Synthesis & Characterization of Materials	3	1	4
4		Material Production, Planning & Control	3	1	4
SUGGESTED MOOCs					
5		MOOC I* 1. Advanced Materials and Processes	--	--	2
6		MOOC II* 1. Aluminum based Alloys and Metal Matrix	--	--	2

*-MOOC must be 12 week duration in SWAYAM/NPTEL