

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR (Established by Govt. of A.P., Act. No. 30 of 2008) ANANTHAPURAMU – 515 002 (A.P) INDIA

#### Course Structure for B.Tech. - R15 Regulations Common to CSE/EEE/CE

#### I B.Tech. - I Semester

S.No	Course code	Subject	Theory	Tu/	Drg/	Lab	Credits
1.	15A52101	Functional English	3	1	-	-	3
2.	15A54101	Mathematics – I	3	1	-	-	3
3.	15A05101	Computer Programming	3	1	-	-	3
4.	15A56101	Engineering Physics	3	1		-	3
5.	15A03101	Engineering Drawing	0	-	6	-	3
6.	15A52102	English Language	-	-	-	4	2
		Communication Skills Lab					
7.	15A56102	Engineering Physics Lab	-	-	-	4	2
8.	15A05102	Computer Programming Lab	-	-	_	4	2
							21

For the subject Engineering Drawing, day-to-day work shall be evaluated for 15 marks by the concerned subject teacher based on the reports/submissions prepared in the class. And there shall be two midterm examinations in a semester for duration of 2hrs each for 15 marks with weightage of 80% to better mid marks and 20% for the other. The subjective paper shall contain 5 questions of equal weightage of 10 marks and the marks obtained for 3 questions shall be condensed to 15 marks, any fraction shall be rounded off to the next higher mark. There shall be no objective paper in internal examination. The sum of day to day evaluation and the internal test marks will be the final sessional marks for the subject.

In the end examination pattern for Engineering Drawing there shall be 5 questions, either-or type, of 14 marks each. There shall be no objective type questions in the end examination.



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## Course Structure for B.Tech. - R15 Regulations

#### **CIVIL ENGINEERING**

#### **I-II Semester**

S.No	Course code	Subject	Th	Tu/l	Drg/L	ab	Credits
1.	15A52201	English for Professional Communication	3	1	-	-	3
2.	15A54201	Mathematics – II	3	1	-	-	3
3.	15A01201	Engineering Mechanics	3	1	-	-	3
4.	15A51101	Engineering Chemistry	3	1	_	-	3
5.	15A01101	Environmental Studies	3	1		-	3
6.	15A01202	Applied Mechanics Lab	-	-	-	4	2
7.	15A51102	Engineering Chemistry Lab	-	-	-	4	2
8.	15A99201	Engineering & IT Workshop	_	-	-	4	2
			15	5		12	21



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR Course Structure for Civil Engineering B. Tech Course (2015-16)

## II B. Tech – I Sem

S.No.	Course	Subject	L	Tu	Lab	C
	Code					
1	15A54301	Mathematics - III	3	1	-	3
2	15A01301	Electrical and Mechanical Technology	3	1	-	3
3	15A01302	Building Materials and Construction	3	1	-	3
4	15A01303	Strength of Materials – I	3	1	-	3
5	15A01304	Surveying – I	3	1	-	3
6	15A01305	Fluid Mechanics	3	1	-	3
7	15A01306	Surveying Laboratory – I	-	-	4	2
8	15A01307	Strength of Materials Laboratory	-	-	4	2
		Total	18	06	08	22



# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR Course Structure for Civil Engineering B. Tech Course (2015-16)

#### II B. Tech - II Sem

S.No.	Course Code	Subject	L	Tu	Lab	C
1	15A54401	Probability and Statistics	3	1	-	3
2	15A52301	Managerial Economics & Financial Analysis	3	1	-	3
3	15A01401	Strength of Materials – II	3	1	-	3
4	15A01402	Surveying – II	3	1	-	3
5	15A01403	Structural Analysis – I	3	1	-	3
6	15A01404	Hydraulics & Hydraulic Machinery	3	1	-	3
7	15A01405	Fluid Mechanics & Hydraulic Machinery Laboratory	-	-	4	2
8	15A01406	Surveying Laboratory – II	-	-	4	2
9	15A01407	Comprehensive Online Examination-I	-	-	-	1
		Total	18	06	08	23

**Note:-** Survey camp for a duration of two weeks to be conducted before the commencement of III B.Tech, I-Sem class work, in the II B.Tech, II-Sem break. This survey camp has to be evaluated for 50 marks by the internal faculty. It has a weightage of 2 credits. The marks and credits will be incorporated in IV-B.Tech, II-Sem marks memo.

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# Course Structure for B.Tech-R15 Regulations

## **Civil Engineering**

#### B.Tech III-I Semester (C.E)

S.	Course	Subject	L	Т	Р	С
No.	Code					
1.	15A01501	Design and Drawing of RCC Structures	3	1	-	3
2.	15A01502	Estimation, Costing and Valuation	3	1	•	3
3.	15A01503	Geotechnical Engineering – I	3	1	•	3
4.	15A01504	Engineering Geology	3	1	•	3
5.	15A01505	Structural Analysis – II	3	1	-	3
6.		MOOCS-I*	3	1	-	3
	15A01506	Cost Effective Housing Techniques				
	15A01507	Water Harvesting and Conservation				
7.	15A01508	Engineering Geology Laboratory	-	ı	4	2
8.	15A01509	Geotechnical Engineering Laboratory	-	-	4	2
9.	15A99501	Audit course - Social Values & Ethics	2	0	2	0
		Total:	20	6	10	22

#### B.Tech III-II Semester (C.E)

S.	Course	Subject	L	T	Р	С
No.	Code					
1.	15A01601	Concrete Technology	3	1	ı	3
2.	15A01602	Design and Drawing of Steel Structures	3	1	•	3
3.	15A01603	Geotechnical Engineering – II	3	1	-	3
4.	15A01604	Transportation Engineering - I	3	1	-	3
5.	15A01605	Water Resources Engineering – I	3	1	-	3
6.		CBCC-I	3	1	-	3
	15A01606	Remote Sensing & GIS				
	15A01607	Disaster Management & Mitigation				
	15A01608	Intellectual Property Rights				
7.	15A01609	Concrete Technology Laboratory	-	-	4	2
8.	15A01610	Transportation Engineering Laboratory	-	-	4	2
9.	15A52602	Advanced English Language	-	-	2	0
		Communication Skills (AELCS) Laboratory				
		(Audit Course)				
10.	15A01611	Comprehensive Online Examination-II	-	-	-	1
		Total:	18	06	12	23

6 Theory + 2 Laboratories+1 Comprehensive Online Examination+1 Audit Course

#### B.Tech IV-I Semester (C.E)

S.	Course	Subject	L	Т	Р	С
No.	Code					
1.	15A01701	Finite Element Methods	3	1	-	3
2.	15A01702	Transportation Engineering - II	ფ	1	•	3
3.	15A01703	Environmental Engineering	ფ	1	•	3
4.	15A01704	Water Resources Engineering – II	ფ	1	•	3
5.		CBCC-II	3	1	-	3
	15A01705	Design and Drawing of Irrigation Structures				
	15A01706	Ground Improvement Techniques				
	15A01707	3. Air Pollution and Quality Control				
6.		CBCC-III	3	1	-	3
	15A01708	Bridge Engineering				
	15A01709	2. Earth Quake Resistant Design of Structures				
	15A01710	3. Rehabilitation and Retrofitting of Structures				
7.	15A01711	CAD Laboratory	-	-	4	2
8.	15A01712	Environmental Engineering Laboratory	-	-	4	2
		Total:	18	6	8	22

#### B.Tech IV-II Semester (C.E)

S.	Course	Subject	L	T	Р	С
No.	Code					
1.		MOOCS – II*	3	1	-	3
	15A01801	Urban Transportation Planning				
	15A01802	Advanced Structural Engineering				
2.		MOOCS – III*	3	1	-	3
	15A01803	Prestressed Concrete				
	15A01804	Environmental Impact Assessment and				
		Management				
3.	15A01805	Comprehensive Viva Voce	-	-	4	2
4.	15A01806	Technical Seminar	-	-	4	2
5.	15A01807	Project Work	-	-	24	10
6.	15A01808	Survey Camp**	-	-	-	2
		Total:	6	2	32	22

<sup>2</sup> Theory + 1 Survey Camp + 1 Technical Seminar + 1 Project work+1 Comprehensive Viva Voce

### Minor Degree in Civil Engineering

S.	Course	Subject	L	Т	Р	၁		
No.	Code							
		III B. Tech – I Semester						
1	15A01302	Building Materials and Construction	3	1	-	3		
	III B. Tech – II Semester							
2	15A01502	Estimation, Costing and Valuation	3	1	ı	3		
		IV B. Tech –I Semester						
3	15A01601	Concrete Technology	3	1	-	3		
	IV B. Tech – II Semester							
4	15A01703	Environmental Engineering	3	1	-	3		
		Total	12	4	-	12		

<sup>\*</sup>Either by MOOCS manner or Self study or Conventional manner

<sup>\*\*</sup> The survey camp conducted after II year – II semester, shall be evaluated in IV – II Semester.