



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

Course Structure & Syllabus for B.Tech. (Regular)
R13 Regulations
CIVIL ENGINEERING

B.Tech. I YEAR

S.No	Course code	Subject	Th	Tu/Drg/Lab.	Credits
1.	13A52101	Communicative English	2	- - -	3
2.	13A56101	Engineering Physics	2	- - -	3
3.	13A51101	Engineering Chemistry	2	- - -	3
4.	13A54101	Mathematics - I	3	1 - -	5
5.	13A12101	Programming in C & Data Structures	3	1 - -	5
6.	13A01101	Engineering Mechanics	3	1 - -	5
7.	13A03101	Engineering Drawing *	1	- 5 -	5
8.	13A12102	Programming in C & Data Structures Lab	-	- - 3	4
9.	13A99102	Engineering Physics & Engineering Chemistry Lab **	-	- - 3	4
10.	13A99103	Engineering & IT Workshop #	-	- - 3	4
11.	13A52102	English Language Comm. Skills Lab	-	- - 3	4
Total Credits					45

Th = Theory; Tu = Tutorial, Drg= Drawing & Lab = Laboratory:

* Engineering Drawing will have University External Exam.

** The students shall attend the Physics lab and Chemistry lab in alternate weeks. The end exam shall be conducted separately and average of the two exams shall be recorded by the University exam section.

The students shall attend Engineering workshop and IT work shop as a single lab every week and the end exam is conducted as a single lab. Sharing the Maximum marks and time for one task each from Engineering workshop and IT workshop. The sum of the marks awarded shall be recorded

B.Tech. II - I Semester

S.No	Course code	Subject	Theory	Tu / Lab	Credits
1.	13A54301	Mathematics – II	3	1 -	3
2.	13A99301	Electrical & Mechanical Technology	3	1 -	3
3.	13A01301	Strength of Materials – I	3	1 -	3
4.	13A01302	Surveying – I	3	1 -	3
5.	13A01303	Fluid Mechanics	3	1 -	3
6.	13A01304	Building Materials & Construction	3	1 -	3
7.	13A01305	Surveying Lab – I	-	- 3	2
8.	13A01306	Strength of Materials Lab	-	- 3	2
Total Credits					22

B.Tech. II - II Semester

S.No	Course code	Subject	Theory	Tu / Lab	Credits
1.	13A54303	Probability & Statistics	3	1 -	3
2.	13A01401	Strength of Materials – II	3	1 -	3
3.	13A01402	Hydraulics & Hydraulic Machinery	3	1 -	3
4.	13A01403	Environmental Science	3	1 -	3
5.	13A01404	Structural Analysis – I	3	1 -	3
6.	13A01405	Surveying – II	3	1 -	3
7.	13A01406	Fluid Mechanics & Hydraulic Machinery Lab	-	- 3	2
8.	13A01407	Surveying Lab – II	-	- 3	2
Total Credits					22

Note: Survey Camp for a duration of two weeks to be conducted before the commencement of III B.Tech. – I Sem classwork, 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.

B.Tech. III - I Semester

S.No	Course code	Subject	Theory	Tu/ Drg / Lab	Credits
1.	13A01501	Building Planning & Drawing	2	- 2 -	3
2.	13A01502	Design & Drawing of Reinforced Concrete Structures	2	- 2 -	3
3.	13A01503	Concrete Technology	3	1 - -	3
4.	13A01504	Water Resources Engineering – I	3	1 - -	3
5.	13A01505	Structural Analysis – II	3	1 - -	3
6.	13A01506	Engineering Geology	3	1 - -	3
7.	13A01507	Engineering Geology Lab	-	- - 3	2
8.	13A01508	Concrete Technology Lab	-	- - 3	2
9.	13A52502	Advanced English Language Communication Skills Lab (Audit)	-	- - 3	-
Total Credits					22



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Revised Course Structure for B.Tech.- R13 Regulations

CIVIL ENGINEERING

III - II Semester

S.No	Course code	Subject	Theory	Tu	Lab	Credits
1.	13A01601	Design & Drawing of Steel Structures	3	1	-	3
2.	13A01602	Geotechnical Engineering - I	3	1	-	3
3.	13A01603	Environmental Engineering	3	1	-	3
4.	13A01604	Water Resources Engineering - II	3	1	-	3
5.	13A01605	Transportation Engineering - I	3	1	-	3
6.	13A01606 13A01607 13A01608	Choice Based Credit Courses 1. Finite Element Methods in Engineering 2. Disaster management and Mitigation 3. Intellectual Property Rights	3	1	-	3
7.	13A01609	Geotechnical Engineering Lab	-	-	4	2
8.	13A01610	Environmental Engineering Lab	-	-	4	2
9.	13A01611	Comprehensive Online Examination-II	-	-	-	1
			18	6	8	23

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

**Course Structure for Civil Engineering
B. Tech Course
(2013-14)**

IV B. Tech – I Sem

S.No.	Course Code	Subject	Theory	Tu	Lab	Credits
1	13A52701	Managerial Economics & Financial Analysis (MEFA)	3	1	-	3
2	13A01701	Estimation, Costing and Valuation	3	1	-	3
3	13A01702	Geotechnical Engineering – II	3	1	-	3
4	13A01703	Transportation Engineering – II	3	1	-	3
5	13A01704 13A01705 13A01706	CBCC -2 1. Design & Drawing of Irrigation Structures 2. Ground Improvement Techniques 3. Air Pollution and Quality Control	3	1	-	3
6	13A01707 13A01708 13A01709	CBCC - 3 1. Bridge Engineering 2. Earth Quake Resistant Design of structures 3. Rehabilitation and Retrofitting of Structures	3	1	-	3
7	13A01710	CAD Laboratory	-	-	4	2
8	13A01711	Transportation Engineering Laboratory	-	-	4	2
		Total	18	06	08	22

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR**Course Structure for CIVIL ENGINEERING
B. Tech Course (2013-14)****IV B. Tech – II Sem**

S.N o.	Course Code	Subject	Theory	Tu	Lab	Credits
1	13A01801 13A01802	MOOC – I* 1. Urban Transportation Planning 2. Environmental Impact Assessment and Management	3	1	-	3
2	13A01803 13A01804	MOOC – II* 1. Remote Sensing & GIS 2. Advanced Structural Engineering	3	1	-	3
3	13A01805 13A01806	MOOC – III* 1. Pre Stressed Concrete 2. Cost Effective Housing Techniques	3	1	-	3
4	13A01807	Technical Seminar	-	-	4	2
5	13A01808	Project Work	-	-	20	10
6	13A01809	Survey Camp**	-	-	4	2
		Total	9	03	28	23

3 Theory + 1 Survey Camp + 1 Technical Seminar + 1 Project work

*Either by MOOCS manner or Self study or Conventional manner

** The survey camp conducted after II year – II semester, shall be evaluated in IV – II semester