1.2.1

Percentage of programs in which Choice Based Credit System (CBCS)/elective course system has been implemented

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

Academic Regulations (R15) for
B. Tech (Regular-Full time)
(Effective for the students admitted into I year from the Academic Year 2015-2016 onwards)

1. Award of B.Tech. Degree
A student will be declared eligible for the award of the B.Tech. degree if he/she fulfils the following academic regulations:

i. Pursues a course of study for not less than four academic years and in not more than eight academic years. However, for the students availing Gap year facility this period shall be extended by two years at the most and these two years would not be counted in the maximum time permitted for graduation.

ii. Registers for 176 credits and secures all 176 credits.

2. Students, who fail to fulfill all the academic requirements for the award of the degree within eight academic years from the year of their admission, shall forfeit their seat in B.Tech. course and their admission stands cancelled.

3. Courses of study
The following courses of study are offered at present as specializations for the B. Tech. course for non-autonomous constituent & affiliated colleges from 2015-16

S.No.	Name of the Branch	Branch Code
1.	Civil Engineering	01
2.	Electrical and Electronics Engineering	02
3.	Mechanical Engineering	03
4.	Electronics and Communication Engineering	04
5.	Computer Science and Engineering	05
6.	Electronics and Instrumentation Engineering	10
7.	Information Technology	12

and any other course as approved by the authorities of the University from time to time.

4. Credits:

i. *Credit:* A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (Lecture) or two hours of practical work/field work per week.

ii. *Academic Year:* Two consecutive (one odd + one even) semesters constitute one academic year.

iii. *Choice Based Credit System (CBCS):* The CBCS provides choice for students to select from the prescribed courses.

semester for duration of 2 hours 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 (0.5 & above) 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. However, the end examination pattern for other subjects related to design/drawing is mentioned along with the syllabus.

5.7 There shall be two comprehensive online examinations conducted by the respective colleges, one at the end of II year and the other at the end of III year, with 100 objective questions for 100 marks on the subjects studied in the respective semesters. For each subject at least eight questions are to be framed. The Principals of the respective colleges are given the responsibility of preparing question bank/question paper and conducting the online examination maintaining confidentiality. A student shall acquire 1 credit assigned to each of the comprehensive online examination when he/she secures 40% or more marks. In case, if a student fails in comprehensive online examination, he/she shall reappear/re-register by following a similar procedure adopted for the lab examinations.

5.8 Laboratory marks and the sessional marks awarded by the college are not final. They are subject to scrutiny and scaling by the University wherever necessary. In such cases, the sessional and laboratory marks awarded by the college will be referred to a committee. The committee will arrive at a scaling factor and the marks will be scaled as per the scaling factor. The recommendations of the Committee are final and binding.

5.9 The laboratory records and internal test papers shall be preserved for a minimum of 2 years in the respective institutions as per the University norms and shall be produced to the Committees of the University as and when the same are asked for.

5.10. There shall be a Discipline Centric Elective Course through **Massive Open Online Course (MOOC)** in III year I semester and in IV year II semester. Where in the student shall register the course (Minimum of 40 hours) offered by authorized institutions/Agencies, through online with the approval of Head of the Department. The Head of the Department shall appoint one mentor for each of the MOOC subjects offered and the mentor appointed shall conduct the internal examinations following the guidelines given in 5.2. Further, the University shall conduct the external examination for the MOOC subject in line with other regular subjects (5.3) based on the syllabi of the respective subject provided in the curriculum. MOOCs courses may be studied either in MOOCs manner or in conventional manner.

5.11. There shall be an Open Elective/**Choice Based Credit Course (CBCC)** in III year II semester, where in the students have to choose an elective offered by various departments including his/her own department.

5.12. **Minor in a discipline** (Minor degree/programme) concept is introduced in the curriculum for all conventional B. Tech programmes in which it offers a major. The main objective of Minor in a discipline is to provide additional learning opportunities for academically motivated students and it is an optional feature of the B. Tech. programme. In order to earn a Minor in a discipline a student has to earn 20 extra credits by studying four theory subjects and a minor discipline project.
   a. Students who have a CGPA 8.5 (for SC/ST students CGPA 8.0) or above (up to II year-I semester) and without any backlog subjects will be permitted to register for Minor discipline programme. An SGPA and CGPA of 8.0 has to be maintained in the subsequent semesters without any backlog

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IV Year B.Tech. CSE I Sem

Sl.No	Course Code	Subject	L	T	P	Credits
1.	9A05701	Web technologies	4	0	0	4
2.	9A05702	Software testing	4	0	0	4
3.	9AHS401	Managerial Economics and Financial Analysis	4	0	0	4
4.	9A05703 9A05704 9A05705	ELECTIVE – I 1. Grid and cluster computing 2. Advanced computer architecture 3. Software architecture	4	0	0	4
5.	9A05706	Data warehousing and data mining	4	0	0	4
6.	9A05707 9A05708 9A05709	ELECTIVE – II 1. Software project management 2. Network management systems 3. Information security	4	0	0	4
7.	9A05710	Web technologies and data mining lab	0	0	3	2
8.	9A05711	Software testing and CASE tools lab	0	0	3	2
		contact periods/week	24	00	06	
		Total/Week 30				
		Total Credits (6 Theory + 2 Labs)				28

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR

IV Year B.Tech. CSE II Sem

Sl.No	Course Code	Subject	L	T	P	Credits
1.	9AHS701	Management Science	4	0	0	4
2.	9A05801	Design Patterns	4	0	0	4
3.	9A05802 9A05803 9A05804	ELECTIVE – III 1. Service Oriented Architecture 2. Web Services 3. Semantic Web	4	0	0	4
4.	9A05805 9A05806 9A05807	ELECTIVE – IV 1. Storage area Networks 2. Internetworking with TCP/IP 3. Wireless Sensor Networks	4	0	0	4
5.	9A05808	Seminar	-	-	-	2
6.	9A05809	Project Work	-	-	-	10
		contact periods/week	16	00	00	
			Total/Week 16			
	Total Credits (4Theory + Seminar + Project Work)					28

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ANANTAPUR

IV B. Tech. – I Semester (E.C.E)

S. No.	Group	Subject	L	T	P	CP
01.	9AHS701	Management Science	4	0	0	4
02.	9A04701	Embedded Real Time Operating Systems	3	1	0	4
03.	9A05506	Computer Networks	4	0	0	4
04.	9A04702	Optical Communications	3	1	0	4
05.	9A04703 9A04704 9A05505	**Elective – I** 1. RADAR Systems 2. DSP Processors & Architectures 3. Operating Systems	3	1	0	4
06.	9A10802 9A04705 9A04706	**Elective – II** 1. Bio-Medical Instrumentation 2. T.V. Engineering 3. Digital Design through Verilog HDL	4	0	0	4
07.	9A04707	Microwave & Optical Communications Lab	0	0	3	2
08.	9A04708	Microprocessors & DSP lab	0	0	3	2
		contact periods / week	21	03	06	
		Total/Week 30				
	Total Credits (6 Theory + 2 Labs)					28

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IV B.Tech. – II Semester (E.C.E)

S. No.	Group	Subject	L	T	P	CP
01.	9A04801	Cellular & Mobile Communications	3	1	0	4
02.	9A04802	Digital Image Processing	3	1	0	4
03.	9A04803 9A04804 9A05709	**Elective – III** 1. Satellite Communications 2. Spread Spectrum Communications 3. Information Security	3	1	0	4
04.	9A04805 9A04806 9A04807	**Elective – IV** 1. Adaptive Filter Theory 2. Wireless Communications & Networks 3. Data Communications	3	1	0	4
05.	9A04808	Seminar	0	0	0	2
06.	9A04809	Project	--	--	--	10
		Contact periods / week	12	04	0	
			Total/Week 16			
	Total Credits (4Theory + Seminar + Project Work)					28

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

Course Structure for Computer Science and Engineering
B. Tech Course
(2013-14)

IV - I Semester

S.No	Course code	Subject	Theory	T	P	Credits
1.	13A05701	Software Architecture & Design Patterns	3	1	-	3
2.	13A05702	Cryptography & Network Security	3	1	-	3
3.	13A05703	Mobile Application Development	3	1	-	3
4.	13A52702	Management Science	3	1	-	3
5.	13A05704 13A05705 13A05706	**Choice Based Credit Courses** (Department specific) 1. Human Computer Interaction 2. Computer Graphics & Multimedia 3. Soft Computing	3	1	-	3
6.	13A05707 13A05708 13A05709	**Choice Based Credit Courses** (Department specific) 1. Artificial Intelligence 2. Information Retrieval Systems 3. Advanced Computer Architecture	3	1	-	3
7.	13A05710	Computer Networks and Network Security Laboratory	-		4	2
8.	13A05711	Mobile Application Development Laboratory	-		4	2
		Total	18	06	08	22

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

Course Structure for Electrical and Electronics Engineering

B. Tech Course (2013-14)

IV B. Tech – I Sem

S.No.	Course Code	Subject	Theory	Tu	Lab	Credits
1	13A02701	Electrical Distribution Systems	3	1	-	3
2	13A04602	Digital Signal Processing	3	1	-	3
3	13A52702	Management Science	3	1	-	3
4	13A02702	Utilization of Electrical Energy	3	1	-	3
5	13A02703 13A02704 13A02705	CBCC-2 (Department) 1. Modern Control Theory 2. Switched Mode Power Converters 3. Energy Auditing & Demand Side Management	3	1	-	3
6	13A02706 13A02707 13A02708	CBCC -3 (Department) 1. Smart Grid 2. Flexible AC Transmission Systems 3. Power Quality	3	1	-	3
7	13A02709	Microprocessors and Microcontrollers Laboratory	-	-	4	2
8	13A02710	Power Electronics and Simulation Laboratory	-	-	4	2
		Total	**18**	**06**	**08**	**22**

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

Course Structure for Electrical and Electronics Engineering

B. Tech Course
(2013-14)

IV B. Tech – II Sem

S.No.	Course Code	Subject	Theory	Tu	Lab	Credits
1	13A02801	MOOC – I* Instrumentation*	3	1	-	3
2	13A02802	MOOC – II* HVDC Transmission*	3	1	-	3
3		MOOC – III* Embedded Systems*	3	1	-	3
4	13A02803	Technical Seminar	-	-	4	2
5	13A02804	Project Work	-	-	24	12
		Total	9	03	28	23

*Either by MOOCS manner or Self study or Conventional manner

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

IV B. Tech – II Sem

S. No.	Course Code	Subject	Theory	Tu	Lab	Credits
1	13A03801 13A03802 13A03803	MOOCS I a. Industrial Engineering b. Entrepreneurship c. Composite Materials	3	1	-	3
2	13A03804 13A03805 13A03806	MOOCS II a. Power Plant Engineering b. Gas Turbines and Jet Propulsion c. Energy Management	3	1	-	3
3	13A03807 13A03808 13A03809	MOOCS III a. Modern Manufacturing Methods b. Rapid Proto Typing c. Product Design	3	1	-	3
4	13A03810	Technical Seminar	-	-	4	2
5	13A03811	Project work	-	-	24	12
		Total	**18**	**06**	**08**	**23**

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Course Structure Electronics and Communication Engineering

B. Tech Course
(2013-14)

IV B. Tech – II Sem

S.No.	Course Code	Subject	Theory	Tu	Lab	Credits
1	13A04801 13A04802	MOOC-I* a. Adaptive Signal Processing b. Advanced 3G & 4G wireless Communications	3	1	-	3
2	13A04803 13A04804	MOOC-II* a. Advanced Digital Signal Processing- Multirate & Wavelet b. RF integrated Circuits	3	1	-	3
3	13A04805 13A04806	MOOC-III* a. Pattern Recognition & Application b. Linux Programming & Scripting	3	1	-	3
4	13A04807	Technical Seminar	-	-	4	2
5	13A04808	Project Work	-	-	24	12
		Total	**09**	**03**	**28**	**23**

3 Theory + 1 Technical Seminar + 1 Project work

*Either by MOOCS manner or Self study or Conventional manner

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

Course Structure for Computer Science and Engineering
B. Tech Course (2013-14)

IV - II Semester

S.No	Course code	Subject	Theory	Tu	Lab	Credits
1.	13A05801 13A05802	MOOC 1 1. Mobile Computing 2. Natural Language Processing	3	1	-	3
2.	13A05803 13A05804	MOOC 2 1. Parallel Algorithms 2. Real Time Systems	3	1	-	3
3.	13A05805 13A05806	MOOC 3 1. High Performance Computing 2. Programming for Everybody using Python	3	1	-	3
4.	13A05807	Technical Seminar	-	-	4	2
5.	13A05808	Project work	-	-	24	12
		Total	09	03	28	23

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

Course Structure Electronics and Communication Engineering

B. Tech Course
(2013-14)

IV B. Tech – I Sem

S.No.	Course Code	Subject	Theory	Tu	Lab	Credits
1	13A52702	Management Science	3	1	-	3
2	13A04701	VLSI Design	3	1	-	3
3	13A04702	Optical Fiber Communication	3	1	-	3
4	13A04703	Embedded Systems	3	1	-	3
5	13A04704 13A02605 13A04705	Theory-V (CBCC) -2 a. Digital Image Processing b. Neural Networks & Fuzzy Logic c. Spread Spectrum Techniques	3	1	-	3
6	13A04706 13A04707 13A04708	Theory-VI (CBCC) - 3 a. Wireless Communication b. Operating Systems c. Satellite communication	3	1	-	3
7	13A04709	VLSI & Embedded Systems Laboratory	-	-	4	2
8	13A04710	Microwave & Optical Communications Laboratory	-	-	4	2
		Total	**18**	**06**	**08**	**22**

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

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

IV B. Tech – I Sem

S.No.	Course Code	Subject	Theory	Tu	Lab	Credits
1	13A03701	Operations Research	3	1	-	3
2	13A03702	Automation and Robotics	3	1	-	3
3	13A03703	Finite Element Methods	3	1	-	3
4	13A03704	Metrology and Measurements	3	1	-	3
5	13A03705 13A03706 13A03707	CBCC II a. Automobile Engineering. b. Tool Design c. Tribology	3	1	-	3
6	13A03708 13A03709 13A03710	CBCC III a. Computational Fluid Dynamics b. Concurrent Engineering c. Production & Operations Management	3	1	-	3
7	13A03711	Metrology and Measurements Laboratory	-	-	4	2
8	13A03712	Computer Aided Engineering Laboratory	-	-	4	2
		Total	**18**	**06**	**08**	**22**

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Course Structure for B.Tech-R15 Regulations

Mechanical Engineering

B.Tech III-I Semester (ME)

S. No.	Course Code	Subject	L	T	P	C
1.	15A01510	Fluid Mechanics and Hydraulic Machines	3	1	-	3
2.	15A03501	Thermal Engineering - II	3	1	-	3
3.	15A03502	Dynamics of Machinery	3	1	-	3
4.	15A03503	Machine Tools	3	1	-	3
5.	15A03504	Design of Machine Members - I	3	1	-	3
6.	15A03505 15A03506 15A03507	**MOOCS -I** a. Entrepreneurship b. Nano Technology c. Micro Electro Mechanical Systems	3	1	-	3
7.	15A01511	Fluid Mechanics and Hydraulic Machines Laboratory	-	-	4	2
8.	15A03508	Machine Tools Laboratory	-	-	4	2
9.	15A99501	Audit course – Social Values & Ethics	2	0	2	0
		Total:	20	6	10	22

B.Tech III-II Semester (ME)

S. No.	Course Code	Subject	L	T	P	C
1.	15A03601	Operations Research	3	1	-	3
2.	15A03602	Design of Machine Members – II	3	1	-	3
3.	15A03603	Heat Transfer	3	1	-	3
4.	15A03604	Finite Element Method	3	1	-	3
5.	15A03605	Metal forming Process	3	1	-	3
6.	15A03606 15A03607	**CBCC-I** a. Non Conventional Source of Energy b. Total Quality Management	3	1	-	3

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	15A03608	c. Mechatronics				
	15A01608	d. Intellectual Property Rights				
7.	15A03609	Heat Transfer Laboratory	-	-	4	2
8.	15A03610	Computer Aided Engineering Laboratory	-	-	4	2
9.	15A52602	Advanced English Language Communication Skills (AELCS) Laboratory (Audit Course)			2	-
10.	15A03611	Comprehensive Online Examination - II	-	-	-	1
		Total:	**18**	**6**	**11**	**23**

There shall be a comprehensive online examination conducted by the respective colleges with 60 objective questions for 60 marks on the subjects studied in the third year (I & II semesters). The Principals of the respective colleges are given the responsibility of preparing question bank/ question paper and conducting the online examination maintaining confidentiality. A student shall acquire 1 credit assigned to the comprehensive online examination only when he/she secures 40% or more marks. In case, if a student fails in comprehensive online examination, he shall reappear/ re-register by following a similar procedure adopted for the lab examinations.

B.Tech IV-I Semester (ME)

S. No.	Course Code	Subject	L	T	P	C
1.	15A52601	Management Science	3	1	-	3
2.	15A03701	Automobile Engineering	3	1	-	3
3.	15A03702	CAD/CAM	3	1	-	3
4.	15A03703	Metrology and Measurements	3	1	-	3
5.		**CBCC-II**		1	-	
	15A03704	a. Refrigeration and Air – Conditioning	3			3
	15A03705	b. Tool Design				
	15A03706	c. Modern Manufacturing Methods				
6.		**CBCC-III**		1	-	
	15A03707	a. Computational Fluid Dynamics				
	15A03708	b. Automation and Robotics	3			3
	15A03709	c. Production & Operations Management				
7.	15A03710	CAD/ CAM Laboratory	-	-	4	2
8.	15A03711	Metrology and Measurements Laboratory	-	-	4	2
		Total:	**18**	**6**	**8**	**22**

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B.Tech IV-II Semester (ME)

S. No.	Course Code	Subject	L	T	P	C
1.	15A03801 15A03802 15A03803	**MOOCS-II** a. Industrial Engineering b. Product Design c. Composite Materials	3	1	0	3
2.	15A03804 15A03805 15A03806	**MOOCS -III** a. Power Plant Engineering b. Gas Turbines and Jet Propulsion c. Energy Management	3	1	0	3
3.	15A03807	Comprehensive Viva Voce	0	0	4	2
4.	15A03808	Technical Seminar	0	0	4	2
5.	15A03809	Project work	0	0	24	12
		Total:	**6**	**2**	**32**	**22**

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B.Tech III-I Semester (EEE)

S. No.	Course Code	Subject	L	T	P	C
1.	15A02501	Electrical Measurements	3	1	-	3
2.	15A04509	Linear & Digital IC Applications	3	1	-	3
3.	15A02502	Electrical Power Transmission Systems	3	1	-	3
4.	15A02503	Power Electronics	3	1	-	3
5.	15A02504	Electrical Machines – III	3	1	-	3
6.	15A04510 15A02505	MOOCS -I Digital Circuits and Systems Networks Signals and Systems	3	1	-	3
7.	15A02506	Electrical Machines Laboratory – II	-	-	4	2
8.	15A02507	Electrical Measurements Laboratory	-	-	4	2
9.	15A99501	Audit course – Social Values & Ethics	2	0	2	0
		Total	**20**	**6**	**10**	**22**

B.Tech III-II Semester (EEE)

S. No.	Course Code	Subject	L	T	P	C
1.	15A52601	Management Science	3	1	-	3
2.	15A02601	Power Semiconductor Drives	3	1	-	3
3.	15A02602	Power System Protection	3	1	-	3
4.	15A04601	Microprocessors & Microcontrollers	3	1	-	3
5.	15A02603	Power System Analysis	3	1	-	3
6.	15A02604 15A02605 15A02606 15A01608	CBCC -I 1) Neural Networks & Fuzzy Logic 2) Programmable Logic Controller & Its Applications 3) Optimization Techniques 4) Intellectual Property Rights	3	1	-	3
7.	15A04607	Microprocessors & Microcontrollers Laboratory	-		4	2
8.	15A02607	Power Electronics & Simulation Laboratory	-		4	2
9.	15A52602	Advanced English Language Communication Skills (AELCS) Laboratory (Audit Course)	-		2	-
10.	15A02608	Comprehensive Online Examination - II	-	-	-	1
		Total	**18**	**6**	**12**	**23**

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B.Tech IV-I Semester (EEE)

S. No.	Course Code	Subject	L	T	P	C
1.	15A02701	Electrical Distribution Systems	3	1	-	3
2.	15A04603	Digital Signal Processing	3	1	-	3
3.	15A02702	Power System Operation and Control	3	1	-	3
4.	15A02703	Utilization of Electrical Energy	3	1	-	3
5.	15A02704 15A02705 15A02706	**CBCC-II** a) Modern Control Theory b) Switched Mode Power Converters c) Energy Auditing & Demand Side Management	3	1	-	3
6.	15A02707 15A02708 15A02709	**CBCC-III** a) Smart Grid b) Flexible AC Transmission Systems c) Power Quality	3	1	-	3
7.	15A04608	Digital Signal Processing Laboratory	-		4	2
8.	15A02710	Power Systems & Simulation Laboratory	-		4	2
		Total	18	6	8	22

B.Tech IV-II Semester (EEE)

S. No.	Course Code	Subject	L	T	P	C
1.	15A02801 15A02802 15A02803	**MOOCS – II** 1. Instrumentation 2. Power System Dynamics and Control 3. Industrial Automation & Control	3	1	-	3
2.	15A02804 15A04702 15A02805	**MOOCS – III** 1. HVDC Transmission 2. Embedded Systems 3. Energy Resources & Technology	3	1	-	3
3.	15A02806	Comprehensive Viva Voce	-	-	4	2
4.	15A02807	Technical Seminar	-	-	4	2
5.	15A02808	Project Work	-		24	12
		Total	6	2	32	22

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VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE
Kavali-524201, SPSR Nellore Dist. Andhrapradesh.

B.Tech III-I Semester (ECE)

S. No.	Course Code	Subject	L	T	P	C
1.	15A04511	Computer Organization	3	1	-	3
2.	15A04501	Antennas and Wave Propagation	3	1	-	3
3.	15A04502	Digital Communication Systems	3	1	-	3
4.	15A04503	Linear Integrated Circuits and Applications	3	1	-	3
5.	15A04504	Digital System Design	3	1	-	3
6.	15A04505 15A04506	**MOOCS-I** a. Linux Programming & Scripting b. MEMS & Microsystems	3	1	-	3
7.	15A04507	IC Applications Laboratory	-	-	4	2
8.	15A04508	Digital Communication Systems Laboratory	-	-	4	2
9.	15A99501	Audit course – Social Values & Ethics	2	0	2	0
		Total	20	06	10	22

B.Tech III-II Semester(ECE)

S. No.	Course Code	Subject	L	T	P	C
1.	15A52301	Managerial Economics and Financial Analysis	3	1	-	3
2.	15A04601	Microprocessors & Microcontrollers	3	1	-	3
3.	15A04602	Electronic Measurements and Instrumentation	3	1	-	3
4.	15A04603	Digital Signal Processing	3	1	-	3
5.	15A04604	VLSI Design	3	1	-	3
6.	15A04605 15A04606 15A02605 15A01608	**CBCC-I** a. MATLAB Programming b. Industrial Electronics c. Neural Networks & Fuzzy Logic d. Intellectual Property Rights	3	1	-	3
7.	15A04607	Microprocessors & Microcontrollers Laboratory	-	-	4	2
8.	15A04608	Digital Signal Processing Laboratory	-	-	4	2
9.	15A52602	Advanced English Language Communication (AELCS) Laboratory (Audit Course)	-	-	2	-
10.	15A04609	Comprehensive Online Examination-II	-	-	-	1
		Total	18	06	12	23

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Principal
PARVATHAREDDY BABUL REDDY
VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE
KAVALI-524201, SPSR Nellore Dist. Andhrapradesh.

B.Tech IV-I Semester(ECE)

S. No.	Course Code	Subject	L	T	P	C
1.	15A04701	Optical Fiber Communication	3	1	-	3
2.	15A04702	Embedded Systems	3	1	-	3
3.	15A04703	Microwave Engineering	3	1	-	3
4.	15A04704	Data Communications and Networking	3	1	-	3
5.	15A04705 15A04706 15A04707	**CBCC-II** a. Radar Systems b. Adaptive Signal Processing c. FPGA Design	3	1	-	3
6.	15A04708 15A04709 15A04710	**CBCC-III** a. Digital Image Processing b. Cellular & Mobile Communication c. Real Time Systems	3	1	-	3
7.	15A04711	Microwave and Optical Communication Laboratory	-	-	4	2
8.	15A04712	VLSI & Embedded Systems Laboratory	-	-	4	2
		Total	**18**	**06**	**08**	**22**

B.Tech IV-II Semester(ECE)

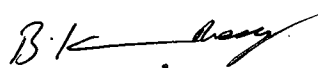| S. No.	Course Code	Subject	L	T	P	C
1.	15A04801 15A04802	**MOOCS-II*** a. Advanced Digital Signal Processing- Multirate & Wavlet b. Low Power VLSI Circuits & Systems	3	1	-	3
2.	15A04803 15A04804	**MOOCS-III *** a. Pattern Recognition & Applications b. RF Integrated Circuits	3	1	-	3
3.	15A04805	Comprehensive Viva Voce	-	-	4	2
4.	15A04806	Technical Seminar	-	-	4	2
5.	15A04807	Project Work	-	-	24	12
		Total	**6**	**02**	**32**	**22**

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B.Tech III-I Semester (CSE)

S. No.	Course Code	Subject	L	T	P	C
1.	15A05501	Operating Systems	3	1	-	3
2.	15A05502	Computer Networks	3	1	-	3
3.	15A05503	Object Oriented Analysis and Design	3	1	-	3
4.	15A05504	Principles of Programming Languages	3	1	-	3
5.	15A05505	Software Testing	3	1	-	3
6.	15A05506 15A05507 15A05508	MOOCS-I a. Introduction to Big Data b. R Programming c. Introduction to Operations Management	3	1	-	3
7.	15A05509	Object Oriented Analysis and Design & Software Testing Laboratory	-	-	4	2
8.	15A05510	Operating Systems Laboratory	-	-	4	2
9.	15A99501	Social Values & Ethics (Audit Course)	2	-	2	-
		Total	20	06	10	22

B.Tech III-II Semester (CSE)

S. No.	Course Code	Subject	L	T	P	C
1.	15A05601	Compiler Design	3	1	-	3
2.	15A05602	Data Warehousing & Mining	3	1	-	3
3.	15A05603	Design Patterns	3	1	-	3
4.	15A05604	Design and Analysis of Algorithms	3	1	-	3
5.	15A05605	Web and Internet Technologies	3	1	-	3
6.	15A05606 15A05607 15A05608 15A01608	CBCC-I a. Artificial Intelligence b. Linux Environment System c. System Applications & Product (SAP) d. Intellectual Property Rights	3	1	-	3
7.	15A05609	Web and Internet Technologies Laboratory	-	-	4	2
8.	15A05610	Data Warehousing & Mining Laboratory	-	-	4	2
9.	15A52602	Advanced English Language Communication Skills(AELCS) Laboratory (Audit Course)	-	-	2	-
10.	15A05611	Comprehensive Online Examination-II	-	-	-	1
		Total	18	06	10	23

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B.Tech IV-I Semester (CSE)

S. No.	Course Code	Subject	L	T	P	C
1.	15A52601	Management Science	3	1	-	3
2.	15A05701	Grid & Cloud Computing	3	1	-	3
3.	15A05702	Information Security	3	1	-	3
4.	15A05703	Mobile Application Development	3	1	-	3
5.	15A05704 15A05705 15A05706	CBCC-II a. Software Architecture b. Computer Graphics c. Machine Learning	3	1	-	3
6.	15A05707 15A05708 15A05709	CBCC-III a. Software Project Management b. Distributed Systems c. Real Time Systems	3	1	-	3
7.	15A05710	Grid & Cloud Computing Laboratory	-	-	4	2
8.	15A05711	Mobile Application Development Laboratory	-	-	4	2
		Total	**18**	**06**	**08**	**22**

B.Tech IV-II Semester (CSE)

S. No.	Course Code	Subject	L	T	P	C
1.	15A05801 15A05802 15A05803	MOOCS-II a. Data Analytics b. Mobile Computing c. Innovations and IT Management	3	1	-	3
2.	15A05804 15A05805 15A05806	MOOCS-III a. Building Large Scale Software Systems b. Enabling Technologies for Data Science Analytics : IoT c. Cyber Security	3	1	-	3
3.	15A05807	Comprehensive Viva-Voce	-	-	4	2
4.	15A05808	Technical Seminar	-	-	4	2
5.	15A05809	Project Work	-	-	24	12
		Total	**6**	**2**	**32**	**22**

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, ANANTAPUR

Course Structure and Syllabi for M.Tech.

VLSI SYSTEM DESIGN   VLSI SYSTEMS   AND   VLSI

for affiliated Engineering Colleges2009-10

I YEAR   I SEMESTER

S. No	Course code	Subject	Theory	Lab.	Credits
1.	9D57101	VLSI Technology	4		4
2.	9D57102	Analog IC Design	4		4
3.	9D57103	Digital IC Design	4		4
4.	9D57104	Hardware Description Languages	4		4
5.	9D57105	Hardware Software Co-design	4		4
6.	9D57106a 9D57106b 9D57106c	ELECTIVE I a. Embedded system Concepts b. System Modeling & Simulation c. ASIC Design	4		4
7.	9D57107	Digital IC Design Lab		3	2
		contact periods/week	24	3	26
			Total 27		

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I YEAR II SEMESTER

S. No	Course code	Subject	Theory	Lab.	Credits
1.	9D55201	Testing & Testability	4		4
2.	9D57202	Low Power VLSI Design	4		4
3.	9D57203	Algorithms for VLSI Design Automation	4		4
4.	9D55204	FPGA Architectures & Applications	4		4
5.	9D57205	Scripting Language for VLSI Design Automation	4		4
6.	9D57206a 9D57206b 9D57206c	**ELECTIVE II** a. Nano Electronics b. Cryptography & Network Security c. Real Time Operating Systems	4		4
7.	9D57207	Mixed Signal Lab		3	2
		Contact periods/week	24	3	
		Total 27			26

II YEAR (III & IV Semesters)

S. No	Course code	Subject		credits
1	9D57401	Seminar		2
2	9D57402	Project work		16

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

Course Structure and Detailed Syllabi for

M.Tech., Power Electronics and Electrical Drives (PE&ED)
Power Electronics (PE) & Power Electronics & Drives (PED),
Power & Industrial Drives (PID)
Offered by Department of EEE
for affiliated Engineering Colleges 2012-13

I YEAR   I SEMESTER

S. No	Course code	Subject	Theory	Lab.	Credits
1.	9D49101	Modern Control Theory	4		4
2.	9D49102	Microprocessor and Microcontrollers	4		4
3.	9D54103	Principles of Machine modeling Analysis	4		4
4.	9D54104	Analysis of Power Electronic Converters	4		4
5.	9D54105	Power Electronic Control of DC Drives	4		4
6.	9D49106a 9D49106b	Elective-I a. Advanced Digital Signal Processing b. Neural Networks and Fuzzy Systems	4		4
7.	9D54107	Power Converters Lab		3	2
		contact periods/week	24	3	26
		Total 27			

I YEAR   II SEMESTER

S. No	Course Code	Subject	Theory	Lab.	Credits
1.	9D49201	Flexible AC Transmission Systems	4		4
2.	9D49202	HVDC Transmission	4		4
3.	9D54203	Power Electronic Control of AC Drives	4		4
4.	9D54204	Advanced Power Semiconductor Devices & Protection	4		4
5.	9D54205	Modern Power Electronics	4		4
6.	9D49206a 9D49206b	**Elective-II** a. Programmable Logic Controllers b. Energy Auditing, Conservation And Management	4		4
7.	9D54207	Electrical Systems Simulation Lab		3	2
		contact periods/week	24	3	26
		Total 27			

II YEAR   (III & IV Semesters)

S. No	Course code	Subject		credits
1	9D54401	Seminar		2
2	9D54202	Project work		16

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

Course Structure and syllabus for
M.Tech. Machine Design
for affiliated Engineering Colleges 2009-10

I YEAR I SEMESTER

S. No	Course code	Subject	Theory	Lab.	Credits
1.	9DBS101	Computational Methods	4		4
2.	9D15102	Advanced Mechanisms	4		4
3.	9D15103	Advanced Mechanics of Solids	4		4
4.	9D15104	Fracture, Fatigue & Creep deformation	4		4
5.	9D15105	Materials Technology	4		4
6.	9D15106a 9D15106b 9D15106c	**Elective – I** a Triobology b Gear Engineering c Non Destructive Evaluation	4		4
7.	9D15107	Simulation Lab		3	2
		contact periods/week	24	3	26
			Total 27		

I YEAR I SEMESTER

S. No	Course code	Subject	Theory	Lab.	Credits
1.	9D04201	Advanced Optimization Techniques	4		4
2.	9D04202	Robotics	4		4
3.	9D15203	Mechanical Vibrations	4		4
4.	9D15204	Experimental Stress Analysis	4		4
5.	9D15205	Theory of Plasticity	4		4
6.	9D15206a 9D15206b 9D15206c	**Elective – II** a. Design for Manufacturing b. Pressure Vessel Design c. Mechanics of Composite Materials	4		4
7.	9D15207	Machine Dynamics Lab		3	2
		Contact periods/week	24	3	26
			Total 27		

II YEAR (III & IV Semesters)

S. No	Course code	Subject		credits
1	9D15401	Seminar		2
2	9D15402	Project work		16

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
ANANTHAPURAMU (A.P.)
COURSE STRUCTURE AND SYLLABUS
(For Affiliated Engineering Colleges w.e.f. 2017-18 Admitted Batch)

M.Tech-ECE-VLSI, VLSI SYSTEMS, VLSI SYSTEM DESIGN (VLSI, VLSIS, VLSISD)

M.Tech I Semester

S.No	Subject Code	Subject	L	T	P	C
1.	17D06101	Structural Digital System Design	4	-	-	4
2.	17D57101	Advanced MOSFET Modeling	4	-	-	4
3.	17D57102	CMOS Analog IC Design	4	-	-	4
4.	17D57103	CMOS Digital IC Design	4	-		4
5.	17D57104 17D06103 17D57105	**Elective-I** a. VLSI Signal Processing b. Advanced Computer Architecture c. CAD for VLSI	3	-	-	3
6.	17D06202 17D55206 17D57106	**Elective-II** a. CPLD and FPGA Architectures and Applications b. ASIC Design c. Optimization Techniques in VLSI Design	3	-	-	3
7.	17D38107	Structural Digital System Design Lab	-	-	3	2
8.	17D57107	VLSI System Design Lab - I	-	-	3	2
		Total	22	-	06	26

M.Tech II Semester

S.No	Subject Code	Subject	L	T	P	C
1.	17D57201	Low Power VLSI Design	4	-	-	4
2.	17D57202	CMOS Mixed signal Design	4	-	-	4
3.	17D06201	Embedded System Design	4	-	-	4
4.	17D06109	Test and Testability	4	-		4
5.	17D55201 17D57203 17D57204	**Elective-III** a. System On Chip Architecture b. Semiconductor Memory Design and Testing c. RF IC Design	3	-	-	3
6.	17D38202 17D55204 17D57205	**Elective-IV** a. Internet of Things b. Hardware and Software Co-design of Embedded System c. Physical Design Automation	3	-	-	3
7.	17D38208	Embedded System Design Lab	-	-	3	2
8.	17D57206	VLSI System Design Lab - II	-	-	3	2
		Total	22	-	06	26

M.Tech. II YEAR   (III Semester)

S. No	Course Code	Subject	L	T	P	C
1.	17D20301 17D20302 17D20303	Elective – V (Open Elective) 1. Research Methodology 2. Human Values & Professional Ethics 3. Intellectual Property Rights	4	---	---	4
2.	17D57301	ELECTIVE – VI (MOOCs)	--	---	---	--
3.	17D57302	Comprehensive Viva Voce	--	---	---	2
4.	17D57303	Seminar	--	---	---	2
5.	17D57304	Teaching Assignment	--	---	---	2
6.	17D57305	Project Work Phase I	--	---	---	4
		Total	4			14

M.Tech. II YEAR   (IV Semester)

S. No	Course Code	Subject	L	T	P	C
1.	17D57401	Project Work Phase II	--	---	---	12
		Total				12

Project Viva Voce Grades:

A: Satisfactory

B: Not Satisfactory

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MBA Semester – III

S. No	Course code	Subject	Th	Lab/Study	credits
1.	9E00301	Business Ethics and Corporate Governance	4	-	4
2.	9E00302	Business Law and Regulation	4	-	4
3.	9E00303	Entrepreneurship Development	4	-	4
4.	9E00304a 9E00304b 9E00304c 9E00304d	Elective I Management Control System Product and Brand Management Human Resource planning e Business	4	-	4
5.	9E00305a 9E00305b 9E00305c 9E00305d	Elective II Financial Institutions, Markets and Services Logistics and Supply Chain Management Training and Development Customer Relationship Management	4	-	4
6.	9E00306a 9E00306b 9E00306c 9E00306d	Elective III Investment and Portfolio Management Sales and Distribution Management Performance Management Enterprise Resource Planning	4	-	4
7.	9E00307a 9E00307b 9E00307c 9E00307d	Elective IV Risk Management and Insurance Advertising and sales Promotion Management Reward Management Data warehousing and Mining	4	-	4
8.	9E00308	Case Study – III	-	- 6	2
		contact periods/week	28	- 6	
		total		34	30

MBA Semester – IV

S. No	Course code	Subject	Th	Lab/Study	credits
1.	9E00401	Strategic Management	4	-	4
2.	9E00402	International Business Management	4	-	4
3.		Elective V	4	-	4
	9E00403a	Financial Derivatives			
	9E00403b	Services Marketing			
	9E00403c	Organization Development			
	9E05403d	Data Communication and Network Analysis			
4.		Elective VI	4	-	4
	9E00404a	International Financial Management			
	9E00404b	International Marketing			
	9E00404c	Global Human Resource Management			
	9E00404d	Corporate Information Management			
5.	9E00405	Case Study - IV		-	3	2
6.	9E00406	Seminar		-	3	2
7.	9E05407	Project Work		-	12	10
		contact periods/week	16	-	18	
		total			34	30

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MCA II Year-I-Semester

S. No.	Course code	Subject	Th	lab
1	9F00301	Database Management Systems	4	-
2	9F00302	Computer Networks	4	-
3	9F00303	Linux Programming	4	-
4	9F00304	Software Engineering	4	-
5	9F00305	Java Programming	4	-
6	9F00306	Database Management Systems Lab	-	3
7	9F00307	Java and Linux Programming Lab	-	3
		contact periods/week	20	6
		total	26	

MCA II Year-II-Semester

S. No.	Course code	Subject	Th	lab
1	9F00401	Management Information Systems	4	-
2	9F00402	Web Technologies	4	-
3	9F00403	Data Warehousing and Mining	4	-
4	9F00404a 9F00404b 9F00404c	Elective – I Information Security NET Technologies Computer Graphics	4	-
5	9F00405a 9F00405b 9F00405c	Elective – II Distributed Systems Social Networks and Semantic Web Artificial Intelligence	4	-
6	9F00406	Web Technologies Lab	-	3
7	9F00407	Data Warehousing and Mining Lab	-	3
		contact periods/week	20	6
		total	26	

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MCA III Year-I-Semester

S. No.	Course code	Subject	Th	lab
1	9F00501	Mobile Application Development	4	-
2	9F00502	Software Testing	4	-
3	9F00503	Object Oriented Analysis and Design (using UML)	4	-
4	9F00504a 9F00504b 9F00504c	Elective-III Software Project Management Human Computer Interaction Information Retrieval Systems	4	-
5	9F00505a 9F00505b 9F00505c	Elective – IV Web Services Multimedia and Rich Internet Applications Design Patterns	4	-
6	9F00506	Mobile Application Development Lab	-	3
7	9F00507	Software Testing Lab and UML Lab	-	3
		contact periods/week	20	6
		total	26	

MCA III Year-II-Semester

S. No.	Course code	Subject	
1	9F00601	Seminar	6
2	9F00602	Dissertation/Thesis (Excellent/Good/Satisfactory/Not-Satisfactory)	15

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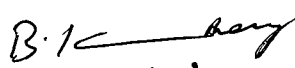
MBA Semester – III

S. No	Course code	Subject	Th	Lab/Study	Credits
1.	14E00301	Business Ethics and Corporate Governance	4	-	4
2.	14E00302	Legal Aspects of Business	4	-	4
3.	14E00303	Entrepreneurship Development	4	-	4
4.		Elective I	4	-	4
	14E00304	Management Control System			
	14E00305	Product and Brand Management			
	14E00306	Human Resource planning			
	14E00307	e-Business			
5.		Elective II	4	-	4
	14E00308	Financial Institutions, Markets and Services			
	14E00309	Customer Relationship Management			
	14E00310	Training and Development			
	14E00311	Supply Chain Management			
6.		Elective III	4	-	4
	14E00312	Investment and Portfolio Management			
	14E00313	Sales and Distribution Management			
	14E00314	Performance Management			
	14E00315	Enterprise Resource Planning			
7.		Elective IV	4	-	4
	14E00316	Risk Management and Insurance			
	14E00317	Advertising and sales Promotion Management			
	14E00318	Knowledge Management			
	14E00319	Data warehousing and Mining			
8.	14E00320	Business Simulation Lab	-	3	2
9.	14E00321	Human Values and Professional Ethics	2	-	
		Contact Periods/Week	30	3	
		Total		33	30

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MBA Semester – IV

S. No	Course code	Subject	Th	Lab/Study	Credits
1.	14E00401	Strategic Management	4	-	4
2.	14E00402	Green Business Management	4	-	4
3.	14E00403 14E00404 14E00405 14E05406	Elective V Financial Derivatives Services Marketing Organization Development Data Communication and Network Analysis	4	-	4
4.	14E00407 14E00408 14E00409 14E00410	Elective VI International Financial Management International Marketing Global Human Resource Management Corporate Information Management	4	-	4
5.	14E00411	Seminar (Contemporary Issues on Business)	-	- 3	2
6.	14E05412	Project Work	-	- 12	10
		Contact Periods/Week	16	- 15	
		total		31	28

MBA Semester – III

S. No	Course code	Subject	L	T	P	C
1.	17E00301	Business Ethics & Corporate Governance	4	-	-	4
2.	17E00302	Green Business Management	4	-	-	4
3.	17E00303	Entrepreneurship Development	4	-	-	4
4.		Elective I	4	-	-	4
	17E00304	Cost and Management Accounting				
	17E00305	Product and Brand Management				
	17E00306	Human Resource Development				
	17E00307	Mobile Commerce				
5.		Elective II	4	-	-	4
	17E00308	Financial Institutions and Services				
	17E00309	Consumer Behavior				
	17E00310	Labor laws and Legislation				
	17E00311	Supply Chain Management				
6.		Elective III	4	-	-	4
	17E00312	Investment and Portfolio Management				
	17E00313	Rural Marketing				
	17E00314	Performance Management				
	17E00315	Enterprise Resource Planning				
7.		Elective IV	4	-	-	4
	17E00316	Auditing and Taxation				
	17E00317	Advertising and Sales Promotion Management				
	17E00318	Knowledge Management				
	17E00319	Data warehousing and Mining				
8.	17E00320	Business Simulation Lab	-	-	3	2
9.	17E00321	MOOCS	-	-	-	
		Total	28	-	3	30

_B. K_____

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MBA Semester – IV

S. No	Course code	Subject	L	T	P	C
1.	17E00401	Strategic Management	4	-	-	4
2.	17E00402	E-Business	4	-	-	4
3.		Elective V	4	-	-	4
	17E00403	Financial Derivatives				
	17E00404	Services Marketing				
	17E00405	Organization Development				
	17E00406	Data Communication and Network Analysis				
4.		Elective VI	4	-	-	4
	17E00407	International Financial Management				
	17E00408	International Marketing				
	17E00409	Global Human Resource Management				
	17E00410	Corporate Information Management				
5.	17E00411	Seminar (Contemporary Issues on Business)	-	-	3	2
6.	17E00412	Project Work	-	-	12	10
		Total	16	-	15	28