



Vidya Jyothi Institute of Technology (Autonomous)

(Accredited by NAAC & NBA, Approved By A.I.C.T.E., New Delhi, Permanently Affiliated to JNTU, Hyderabad)

(Aziz Nagar, C.B.Post, Hyderabad -500075)

COMPUTER SCIENCE AND ENGINEERING R18

I YEAR I SEMESTER

COURSE STRUCTURE

Subject Code	Subject Name	L	T	P/D	Total Credits
A21002	Mathematics-I	3	1	0	4.0
A21003	Applied Physics	3	1	0	4.0
A21201	Basic Electrical Engineering	3	0	0	3.0
A21301	Engineering Graphics & Modeling	1	0	3	2.5
A21501	Programming For Problem Solving-I	2	0	0	2.0
A21082	Applied Physics Lab	0	0	3	1.5
A21281	Basic Electrical Engineering Lab	0	0	2	1.0
A21081	English Language Skills Lab (ELSL)	0	0	2	1.0
A21581	Programming For Problem Solving Lab-I	0	0	2	1.0
TOTAL CREDITS					20

I YEAR II SEMESTER

COURSE STRUCTURE

Subject Code	Subject Name	L	T	P/D	Total Credits
A22005	English	2	0	0	2.0
A22006	Mathematics-II	3	1	0	4.0
A22008	Chemistry	3	1	0	4.0
A22502	Programming For Problem Solving-II	2	0	0	2.0
A22084	English Communication Skills Lab (ECSL)	0	0	2	1.0
A22086	Chemistry Lab	0	0	3	1.5
A22382	Engineering Workshop	0	1	3	2.5
A22582	Programming For Problem Solving Lab-II	0	0	2	1.0
TOTAL CREDITS					18

Note: All End Examinations (Theory and Practical) are of three hours duration.



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II YEAR I SEMESTER

COURSE STRUCTURE

Subject Code	Subject Name	L	T	P/D	Total Credits
A23012	Probability and Statistics	3	0	0	3
A23405	Digital Logic Design	3	0	0	3
A23401	Electronic Devices & Circuits	3	0	0	3
A23504	Data Structures	3	0	0	3
A23505	Mathematical Foundations of Computer Science	3	0	0	3
A23506	Python Programming	3	0	0	3
A23583	Data Structures & Python Programming Lab	0	0	2	2
A23483	Digital Logic Design and Electronic Devices & Circuits Lab	0	0	2	2
A23MC2	Gender Sensitization/Cyber Laws	2	0	0	--
Total number of Credits					20

II YEAR II SEMESTER

COURSE STRUCTURE

Subject Code	Subject Name	L	T	P/D	Total Credits
A24507	Design and Analysis of Algorithms	4	0	0	4
A24508	Computer Organization	3	0	0	3
A24509	Java Programming	3	0	0	3
A24510	Software Engineering	3	0	0	3
A24511	Database Management Systems	3	0	0	3
A24015	Professional Communications	2	0	0	2
A24584	Java Programming Lab	0	0	2	1
A24585	Database Management Systems lab	0	0	2	1
A24MC2	Environmental Science	2	0	0	-
Total number of Credits					20

Note: All End Examinations (Theory and Practical) are of three hours duration.

L – Lecture

T – Tutorial

P – Practical

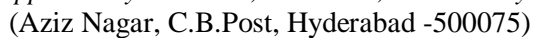
D – Drawing

III Year 1st Semester

[illegible]

III Year 2nd Semester

[illegible]

[illegible]



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COMPUTER SCIENCE AND ENGINEERING (R15)

COURSE STRUCTURE

I YEAR I SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A11001	English-I	2	0	0	2
A11002	Mathematics - I	4	1	0	3
A11003	Engineering Physics - I	3	1	0	3
A11502	C Programming - I	3	1	0	3
A11004	Engineering Chemistry	3	1	0	3
A11303	Engineering Graphics	2	0	3	3
A11081	English Language Communication Skills Lab – I	0	0	3	2
A11582	C Programming Lab- I	0	0	3	2
A11083	Engineering Physics and Chemistry Lab	0	0	3	2
A11583	IT Workshop	0	0	3	2
	Total	17	07	15	25

I YEAR II SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A12005	English-II	2	0	0	2
A12006	Mathematics – II	4	1	0	3
A12007	Engineering Physics-II	3	1	0	3
A12503	C Programming – II	3	1	0	3
A12009	Mathematics – III	3	1	0	3
A12203	Basic Electrical Engineering	3	1	0	3
A12085	English Language Communication Skills Lab – II	0	0	3	2
A12584	C Programming Lab - II	0	0	3	2
A12382	Engineering Workshop	0	0	3	2
	Total	18	5	9	23

Note: All End Examinations (Theory and Practical) are of three hours duration.

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II YEAR I SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A13014	Probability & Statistics	3	1	0	3
A13504	Mathematical Foundations of Computer Science	3	1	0	3
A13505	Data Structures	4	1	0	4
A13406	Digital Logic Design	3	1	0	3
A13506	Object Oriented Programming	4	1	0	4
A13401	Electronic Devices & Circuits	3	1	0	3
A13585	Data Structures Lab	0	0	3	2
A13483	Electronic Devices & Circuits and Digital Logic Design Lab	0	0	3	2
A13MC3	Professional Communication(15-16)	2	0	0	-
A13MC2	Intellectual Property Rights and Cyber Laws(2017)				
Total		22	6	6	24

II YEAR II SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A14507	Design and Analysis of Algorithms	4	1	0	4
A14508	Computer Organization	3	1	0	3
A14509	Database Management Systems	3	1	0	4
A14510	Software Engineering	3	1	0	3
A14511	Java Programming	3	1	0	4
A14016	Environmental Science	2	1	0	2
A14586	Java Programming Lab	0	0	3	2
A14587	Database Management Systems lab	0	0	3	2
A14MC1	Disaster Management(2015,16)	2	0	0	-
A14MC3	Professional Communication(2017)				
Total		20	6	9	24

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III YEAR I SEMESTER

Subject Code	Subject Name	L	T	P	Total Credits
A15512	Linux Programming	3	1	0	3
A15513	Computer Networks	3	1	0	3
A15514	Operating Systems	3	1	0	3
A15515	Formal Languages & Automata Theory	3	1	0	3
Professional Elective-1	A15517-Principles of Programming Languages A15518 – Human Computer Interaction A15519 - Software Project Management	3	1	0	3
Open Elective-1	A15520 – Java Programming A15521 – Operating Systems	3	1	0	3
A15588	Operating Systems & Computer Networks lab through LINUX.	0	0	3	2
A15089	Advanced Communication Skills Lab	0	0	3	2
A15TP2	Quantitative Methods & Logical Reasoning	2	1	0	2
	Total	20	7	6	24

III YEAR II SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A16522	Web Technologies	3	1	0	3
A16523	Compiler Design	3	1	0	3
A16525	Data Warehousing & Data Mining	3	1	0	3
A16018	Managerial Economics & Financial Analysis	3	1	0	3
A16526 A16527 A16528	Professional Elective-2 • Object Oriented Analysis & Design • Distributed Systems • Information Retrieval Systems	3	1	0	3
Open Elective-2	A16529 – Database Management System A16530 – Software Engineering	3	1	0	3
A16589	Web Technologies & Case Tools Lab	0	0	3	2
A16590	Compiler Design & Data Mining Lab	0	0	3	2
A16TP1	Personality Development & Behavioural Skills	2	1	0	2
	Total	20	7	6	24

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IV YEAR I SEMESTER

Subject Code	Subject Name	L	T	P	Total Credits
A17531	Mobile Application Development	3	1	0	3
A17532	Information Security	3	1	0	3
A17533	Cloud Computing	3	1	0	3
A17535 A17537 A17536	Professional Electives-3 1.Big Data Analytics 2. Internet of Things 3. Image Processing	3	1	0	3
A17538 A17540 A17534	Professional Electives-4 1.Advanced Databases 2.Computer Graphics 3.Software Testing Methodologies	3	1	0	3
A17541 A17542	Open Electives-3 1. Information System For Engineers 2.Web Design	3	1	0	3
A17593	Mobile Application Development Lab	0	0	3	2
Professional Elective Lab	A17594: Hadoop & Bigdata Lab A17595: Internet of Things Lab A17596: Image Processing With SCI Lab	0	0	3	2
A175P1	Mini Project	0	0	0	2
Total Credits					24

IV YEAR II SEMESTER

Subject Code	Subject Name	L	T	P/D	Total Credits
A18543	Design Patterns	3	1	0	3
A18544	E-Commerce	3	1	0	3
A18545	Semantic Web and Social Networks	3	1	0	3
A185TS	Technical Seminar	0	0	6	2
A185CV	Comprehensive Viva-Voce	0	0	0	2
A185P2	Project	0	0	15	11
Total Credits					24

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD.**B. TECH. COMPUTER SCIENCE AND ENGINEERING****COURSE STRUCTURE- R13****I YEAR**

Code	Subject	L	T/P/ D	C
A10001	English	2	-	4
A10002	Mathematics – I	3	1	6
A10003	Mathematical Methods	3	-	6
A10004	Engineering Physics	3	-	6
A10005	Engineering Chemistry	3	-	6
A10501	Computer Programming	3	-	6
A10301	Engineering Drawing	2	3	6
A10581	Computer Programming Lab.	-	3	4
A10081	Engineering Physics / Engineering Chemistry Lab.	-	3	4
A10083	English Language Communication Skills Lab.	-	3	4
A10082	IT Workshop / Engineering Workshop	-	3	4
	Total	19	16	56

II YEAR I SEMESTER

Code	Subject	L	T/P/ D	C
A30008	Probability and Statistics	4	-	4
A30504	Mathematical Foundations of Computer Science	4	-	4
A30502	Data Structures	4	-	4
A30401	Digital Logic Design	4	-	4
A30404	Electronic Devices and Circuits	4	-	4
A30202	Basic Electrical Engineering	4	-	4
A30282	Electrical and Electronics Lab	-	3	2
A30582	Data Structures Lab	-	3	2
	Total	24	6	28

II YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A40506	Computer Organization	4	-	4
A40507	Database Management Systems	4	-	4
A40503	Java Programming	4	-	4
A40009	Environmental studies	4	-	4
A40509	Formal Languages and Automata Theory	4	-	4
A40508	Design and Analysis of Algorithms	4	-	4
A40585	Java Programming Lab	-	3	2
A40584	Database Management Systems Lab	-	3	2
	Total	24	6	28

III YEAR I SEMESTER

Code	Subject	L	T/P/D	C
A50511	Principles of Programming Languages	4	-	4
A50018 A50017 A50117	OPEN ELECTIVE Human Values and Professional Ethics Intellectual Property Rights Disaster Management	4	-	4
A50518	Software Engineering	4	-	4
A50514	Compiler Design	4	-	4
A50510	Operating Systems	4	-	4
A50515	Computer Networks	4	-	4
A50589	Operating Systems Lab	-	3	2
A50587	Compiler Design Lab	-	3	2
	Total	24	6	28

III YEAR II SEMESTER

Code	Subject	L	T/P/D	C
A60521	Distributed Systems	4	-	4
A60522	Information Security	4	-	4
A60524	Object Oriented Analysis and Design	4	-	4
A60525	Software Testing Methodologies	4	-	4
A60010	Managerial Economics and Financial Analysis	4	-	4
A60512	Web Technologies	4	-	4
A60591	Case Tools and Web Technologies Lab	-	3	2
A60086	Advanced Communication Skills Lab	-	3	2
	Total	24	6	28

IV YEAR I SEMESTER

Code	Subject	L	T/P/ D	C
A70511	Linux Programming	4	-	4
A70530	Design Patterns	4	-	4
A70520	Data Warehousing and Data Mining	4	-	4
A70519	Cloud Computing	4	-	4
A70540 A70532 A70536 A70529 A70352	ELECTIVE – I Software Project Management Image processing and Pattern Recognition Mobile Computing Computer Graphics Operations Research	4	-	4
A70534 A70539 A70533 A70526 A70628	ELECTIVE – II Machine Learning Soft Computing Information Retrieval Systems Artificial Intelligence Computer Forensics	4	-	4
A70596	Linux Programming Lab	-	3	2
A70595	Data Warehousing and Mining Lab	-	3	2
	Total	24	6	28

IV YEAR II SEMESTER

Code	Subject	L	T/ P/ D	C
A80014	Management Science	4	-	4
A80551 A80538 A80537 A80547	ELECTIVE III Web Services Semantic Web and Social Networks Scripting Languages Multimedia & Rich Internet Applications	4	-	4
A80542 A80550 A80543 A80439	ELECTIVE – IV Ad hoc and Sensor Networks Storage Area Networks Database Security Embedded Systems	4	-	4
A80087	Industry Oriented Mini Project	-	-	2
A80089	Seminar	-	6	2
A80088	Project Work	-	15	10
A80090	Comprehensive Viva	-	-	2
	Total	12	21	28

**JAWAHARLAL NEHRU TECHNOLOGICAL
UNIVERSITY HYDERABAD.**

B. TECH. COMPUTER SCIENCE AND ENGINEERING

COURSE STRUCTURE- R09

IV YEAR I SEMESTER

Subject Code	Subject Name	L	T/P/D	Total Credits
57046	Linux Programming	4	1	4
57047	Software Testing Methodologies	4	1	4
57048	Data Warehousing and Data Mining	4	-	4
57049	Computer Graphics	3	1	3
57050 57051 57052 57053	Elective-1	3	1	3
	Advanced Computer Architecture			
	Cloud Computing			
	Distributed Computing			
	Mobile Computing			
57054 57055 57056 57057	Elective-2	3	1	3
	Design Patterns			
	Machine Learning			
	Soft computing			
	Information Retrieval Systems			
57609	Linux Programming and Data Mining Lab	-	3	2
57610	Case Tools and Software testing Lab	-	3	2
	Total	21	11	25

IV YEAR II SEMESTER

Subject Code	Subject Name	L	T/P/ D	Total Credits
58007	Management Science			
	Elective 3			
58035	Web Services			
58036	Semantic Web and Social Networks			
58037	Scripting Languages			
58038	Multimedia and Rich Applications			
	Elective 4			
58039	Adhoc and Sensor Networks			
58040	Storage Area Networks			
58041	Data Base Security			
58042	Embedded Systems			
58617	Mini Project			
58618	Seminar			
58619	Project Work			
58620	Comprehensive Viva			
	Total			

