

NBKR INSTITUTE OF SCIENCE & TECHNOLOGY: VIDYANAGAR (AUTONOMOUS)

(AFFILIATED TO JNTUA ANANTHAPURAMU: SPSR NELLORE)

COMPUTER SCIENCE & ENGINEERING - SCHEME OF INSTRUCTION AND EVALUATION

(With effect from the academic year 2017-2018)

S.N	I B.Tech		II B.Tech		III B.Tech		IV B.Tech	
	I Semester	Credits	I Semester	Credits	I Semester	Credits	I Semester	Credits
1	17SH1101-Functional English	3	17CS2101-Mathematical Foundations of Computer Science	3	17CS3101-Image Processing and Visualization	3	17CS4101-Mobile Application & Development	3
2	17SH1102-Engineering Physics	3	17CS2102-Java Programming	3	17CS3102-Artificial Intelligence	4	17CS4102-R Programming	4
3	17SH1104-Numerical Analysis	3	17CS2103-Operating Systems	3	17CS3103-Cryptography and Network Security	3	17CS4103-Big Data and Hadoop	3
4	17CS1101-Basic Computer Engineering	3	17CS2104-Basic Computer Organization	3	17CS3104-Compiler Design	4	17SH4101-Management Science	3
5	17EE1101-Basic Electrical Sciences	4	17CS2105-Software Engineering	4	17CS3105-Web Application Development using Python	3	Open Elective - 1	3
6	17SH11P1-English Language Lab	2	17SH2106-Probability & Statistics	4	Professional Elective -1 17CS31E1-Advanced Database Management Systems 17CS31E2-Multimedia and Applications 17CS31E3-Software Architecture 17CS31E4-Genetic Algorithms and Applications	3	Professional Elective -3 17CS41E1-Introduction to Robotics and Navigation 17CS41E2-Information Retrieval 17CS41E3-Software Testing and Quality Assurance 17CS41E4-Machine Learning	3
7	17SH11P2-Engineering Physics Lab	2	17MC2101-Environmental Studies	-	17CS31P1-IPV Lab	2	17CS41P1-MAD Lab	2
8	17CS11P1-Basic Computer Engineering Lab	1	17CS21P1-Java Programming Lab	2	17CS31P2-WADP Lab	2	17CS41P2-BDH Lab	2
9	17ME11P2-Computer Aided Engineering Drawing	3	17CS21P2-Operating Systems Lab	2				
	Total	24		24		24		23
	II Semester	Credits	II Semester	Credits	II Semester	Credits	II Semester	Credits
1	17SH1201-Professional English	3	17CS2201-Database Management Systems	4	17CS3201-Internet of Things	3	Professional Elective -4 17CS42E1-Wireless Networks 17CS42E2-Free & Open Source Software 17CS42E3-Pattern Recognition 17CS42E4-Virtual Reality	3
2	17SH1203-Engineering Chemistry	3	17CS2202-Formal Languages and Automata Theory	4	17CS3202-Object Oriented Analysis and Design	3	Open Elective - 2	3
3	17SH1204-Engineering Mathematics-I	3	17CS2203-Design and Analysis of Algorithms	3	17CS3203-High Performance Computing	4	17CS42IS-Internship	2
4	17CS1201-C Programming	3	17CS2204-Software Project Management	3	17CS3204-Data mining and Data warehousing	4	17CS42MO-MOOCs	3
5	17CS1202-Data Structures	3	17CS2205-Computer Networks	3	17CS3205-Cloud Computing	4	17CS42PR-Project	11
6	17EC1201-Electronic Devices	3	17CS2206-Principles of Programming Languages	4	Professional Elective -2 17CS32E1-C # and .Net Framework 17CS32E2-Bioinformatics 17CS32E3-Intelligent Software Agents 17CS32E4-Microprocessor and Interfacing	3		
7	17SH12P3-Engineering Chemistry Lab	2	17MC2202-Technical English & Soft Skills	-	17AC3201-Professional Ethics and Life Skills	0		
8	17CS12P1-C Programming Lab	2	17CS22P1-DBMS Lab	2	17CS32P1-IOT Lab	2		
9	17ME12P1-Engineering Workshop	1	17CS22P2-CN Lab	2	17CS32P2-OOAD Lab	2		
10					17CS32MP-Mini Project	2		
		23		25		27		22

	III - I	III - II	IV - I	IV - II
	<p><u>PROFESSIONAL ELECTIVE – 1</u></p> <ul style="list-style-type: none"> - Software Architecture (SA) - Advanced Database Management Systems (ADBMS) - Multimedia and Applications (MMA) - Genetic Algorithms and Applications (GAA) 	<p><u>PROFESSIONAL ELECTIVE – 2</u></p> <ul style="list-style-type: none"> - C # and .Net Framework (C# & .Net) - Bioinformatics (BI) - Intelligent Software Agents (ISA) - Microprocessor Interfacing (MPI) 	<p><u>PROFESSIONAL ELECTIVE – 3</u></p> <ul style="list-style-type: none"> - Introduction to Robotics and Navigation (IRN) - Information Retrieval (IR) - Software Testing and Quality Assurance (STQA) - Machine Learning (ML) <p><u>OPEN ELECTIVE - 1</u></p> <p>Choose any one subject from the following all branches which were offered as open electives</p>	<p><u>PROFESSIONAL ELECTIVE – 4</u></p> <ul style="list-style-type: none"> - Wireless Networks (WN) - Free & Open Source Software (FOSS) - Pattern Recognition (PR) - Virtual Reality (VR) <p><u>OPEN ELECTIVE – 2</u></p> <p>Choose any one subject from the following all branches which were offered as open electives (Except Open elective -1)</p>
OPEN ELECTIVES from other Departments				
	ECE	CE	EEE	ME
	<ul style="list-style-type: none"> - Microprocessors And Micro Controllers - Neural Networks and Fuzzy Logic - VLSI - Embedded Systems - Cellular Mobile Communication - DSP processors & architecture - Telecommunication Networks - Optoelectronics 	<ul style="list-style-type: none"> - Air pollution and control - Disaster Mitigation And management - Environmental impact assessment - Remote sensing & GIS - Fluid mechanics & Hydraulic machines - Building Planning and Construction techniques - Cost effective housing techniques - Building plumbing services - Integrated water shed management. 	<ul style="list-style-type: none"> - Basics of Power Systems - Energy Conversion Techniques - Introduction to Control Systems - Matlab and Its Applications in Engineering - Electrical Energy Conservation & Auditing - Electrical & Hybrid Vehicles - Industrial Electrical systems 	<ul style="list-style-type: none"> - Operations Research - Power Plant Engineering - Industrial Robotics - Thermal Engineering - Automobile Engineering - Total Quality Management
	<p>OPEN ELECTIVES offered by CSE department</p>	<ul style="list-style-type: none"> - Fundamentals of Data Structures (FDS) - Database Management Systems (DBMS) - Java Programming (JP) - Network Management (NM) - C++ Programming (CPP) - Python Programming (PP) - Software Engineering (SE) - Web Design and Management 	-	