

Department of Computer Science and Engineering KAKATIYAINSTITUTEOFTECHNOLOGY&SCIENCE

Warangal-506015

B. Tech(CSN) Course Outcomes of Autonomous Syllabus URR-24 KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE:WARANGAL DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

B.Tech –I-Year I-Semester		
Course Code/Name	Course Outcomes	
	After completion of this course, the students will be able to,	
U24MH101: DIFFERENTIAL CALCULUS AND ORDINARY DIFFERENTIAL EQUATIONS	CO1 : examine the convergence of a series and interpret mean value theorems.	
	CO2: apply partial differentiation to functions of several variables in solving	
	variousengineering problems.	
	CO3 : apply appropriate methods of differential equations of first order and first degree to solve real life engineering problems.	
	CO4: analyze the solutions of higher order linear differential equation with constant Coefficients	
U24CY102B:	CO1: apply the concepts of electrochemical energy systems for batteries and fuel cells	
ENGINEERING CHEMISTRY	CO2: interpret suitable techniques of water analysis and corrosion treatment of solid materials	
	CO3: apprise manufacturing of engineering materials and spectroscopic techniques of chemical analysis	
	CO4 : apprise the synthesis, applications of engineering materials and principles	
	of greenchemistry	
	CO1:determine the time period and frequency of SHM oscillatory system and Know the principles and applications of ultrasonics in different fields	
U24CI111:	CO2:analyse and apply the concepts of interference, diffraction and	
DIGITAL LOGIC DESIGN	Polarization phenomena in accurate determination of wavelengths, thicknesses, narrow slit widths, optical activity, etc	
	CO3:describe the characteristics and working of lasers, optical fibers and Their applications in various fields	
	CO4:classify and enumerate the properties of magnetic, super conducting and nonmaterial and know their engineering applications	
U24CN104:	CO1: demonstrate knowledge on fundamental of C programming language and design an algorithm & flow chart for a given application	
	CO2: apply logical skills for problem solving using control structures and arrays	
PROGRAMMING FOR PROBLEM SOLVING WITH C	CO3: develop string programs and modular programming with functions	
I ROBLEM SOLVING WITH C	CO4: implement structures, unions, pointers and files in C programming	
U24MH105/U24MH205:	CO1: apply basic grammar principles in speech and writing, read fast, form new	
ENGLISH COMMUNICATION AND	words, make coherent paragraphs, and adapt the real value of life.	
REPORT WRITING	CO2 : create effective letters, e-mails, reply to Memos and do the given tasks with confidence.	
	CO3:analyze the given texts and write clear and unambiguous reports.	
	CO4 : deduct the superfluous information from lengthy text, prepare SoP(Statement	
•	of Purpose) effectively and solve critical problems in life with emotional balance	

	CO1: demonstrate physical fitness by performing yoga aasanas
U24VA106:	CO2: demonstrate physical fitness through various games & sports events with defined benchmarks
SPORTS and YOGA	CO3: demonstrate sportsman spirit and ethics
	CO4: demonstrate physical, psychological, social and emotional balance
	CO1: synthesize literature survey, identify research gaps and define objective &
U24ELXYY:	scope of practicum problem
	CO2: apply knowledge to design & conduct experiments, utilize modern tools for
PRACTICUM	solution of practicum problem and develop working model/ process/ system
	CO3: apply knowledge to design & conduct experiments, utilize modern tools for
(I,II,III,IV SEM)	solution of practicum problem and develop working model/ process/ system
	CO4 : create a video pitch on practicum and make an effective oral presentation using
	PPTs
U24VA109XXXXX :	CO1: integrate the five dimensions of physical, emotional, cognitive, spiritual and
	social aspects in life for holistic development and demonstrate social sensibility
SOCIAL	CO2 : interact effectively through written, oral and nonverbal communication with
EMPOWERMENT	external- world in a professional, sensitive and culturally relevant manner
ACTIVITY / SELF	co3 : analyse the issues related to social empowerment / self-accomplishment,
ACCOMPLISHMENT	demonstrate problem-solving skills, articulate solutions and demonstrate social sensibility
	CO4 : demonstrate the generic competencies in making a well-documented report
ACTIVITY	and an effective oral presentation with PPTs portraying knowledge, skills, qualities
(SEA-I /SAA-I) (1,II,III,I,V,VI SEM)	acquired through fieldwork/practice sessions and social impact of the course
(1,11,111,1,1,1,1,1)	learning
	CO1: identify real-world problems, different career paths, industry requirements,
U24AE110:	emerging job roles, business practices and exploit new opportunities by staying up-
	to-date with industry knowledge, trends and technology
EVDEDT TALV CEDIEC I	CO2: identify what 21st century employability-related skills and professional
EXPERT TALK SERIES-I	etiquette are must in a range of recruitment situations, what skills are absent in
	him/her, and demonstrate skill improvement
	co3 : interact with experts, exhibit confidence, demonstrate improved
	communication and networking abilities potentially leading to mentorship opportunities, internships, or even future job prospects
	CO4 : demonstrate the generic competencies in making a well-documented report
	portraying knowledge, skills, qualities acquired through ETS sessions and impact of
	the expert talks

B. Tech-I-Year II-Semester		
Course Code/Name	Co's	
U24ME107/ U24ME207:	CO1 : draw projections of points and straight lines inclined to one plane with Auto CAD.	
	CO2: develop the projections of planes using Auto CAD	
ENCINEEDING	CO3 : construct the projections of solids and sections of solids using Auto CAD	
ENGINEERING GRAPHICS	CO4 : create orthographic and isometric projections and develop the simple	
THROUGH CAD	electrical and electronic circuit using Auto CAD	
U24MH201:	CO1: analyze eigen value problems using matrix theory	
MATRIX THEORY AND VECTOR CALCULUS	CO2 : apply basic concepts of multiple integrals in evaluating physical quantities of real-lifeengineering problems	
	CO3: apply differential operators on vector and scalar point functions	
	CO4 : solve line, surface, volume integrals and correlate these with applications of Green, Stoke and Gauss divergence theorems	
	CO1: evaluate properties of lasers and optical fibre parameters	
	CO2 : calculate the electric field, electric potential, magnetic field and flux density;	
U24PY202B:	determineproperties of magnetic and superconducting materials	
	CO3 : evaluate the energy values of a particle in an infinite potential well and apply	
ENGINEERING PHYSICS	thequantum principles in quantum computing	
	CO4 : analyze V-I characteristics of semiconductor diodes and suggest their	
	applications; determine resistances of transistor biasing circuits	
VO 4 (IV) 0 0 0	CO1: analyze instruction formats and addressing modes of assembly language	
U24CN203:	CO2 : examine hardwired & CISC style processors and solve arithmetic operations	
COMPUTED	usingsigned and unsigned integers	
COMPUTER ARCHITECTURE AND	CO3: assess cache memory mapping techniques and examine data transfer	
ORGANIZATION	betweenprocessor, memory & I/O	
<u> </u>	CO4 : evaluate different modes of data transfer, classify interconnection structures	
112.4.CN2.0.4	CO1 : analyze and implement array operations by utilizing dynamic memory	
U24CN204:	allocation and evaluating their time and space complexities	
DATA	CO2 : analyze and implement stack and queue data structures by utilizing array	
STRUCTURES	representations and evaluating their applications and operational complexities	
THROUGH C	CO3 : analyze and implement various types of linked lists by utilizing dynamic	
	memory allocation techniques and evaluating their operational complexities	
	CO4 : develop various sorting algorithms, analyze their time complexities, and apply hashing techniques with collision resolution methods, comparing their efficiencies	
	CO1 : determine voltage, current & power in electrical circuits using network reduction	
U24EE205B:	techniques, mesh & nodal analysis	
U44EE4U3B:	CO2 : apply suitable network theorems to analyze DC circuits	
BASIC ELECTRICAL	CO3 : determine impedance, voltage, current, and power in 1- Ø AC circuits &	
ENGINEERING	determine line and phase quantities in 3- Ø AC circuits	
	CO4 : select a suitable electrical machine for given applications and determine the	
	energy consumed by a lighting load.	
	CO1 : identify the natural resources and practice their usage more equitably	
	CO2 : develop an action plan for sustainable alternatives and conserving biodiversity	
U24CY206: ENVIRONMENTAL STUDIES	CO3: examine and perceive the solutions for the environmental pollution	
	CO4: adapt issues involved in enforcement of environmental legislation and green methodology	
U24AE107 / U24AE207:	CO1: produce wooden joints and intricate articles using carpentry and CNC wood router respectively	
IDEA Lab Makerspace	CO2: implement procedures to prepare the mould cavity for sand casting and arc welding joints	

(1 0 H 0710	CO3: produce innovative prototypes using laser engraving and 3D printing
(I & II SEM)	CO4: design and develop systems based on PCB and IoT for given applications
	CO1 : develop efficient and optimized C programs to solve a range of moderate to
	complex problems, demonstrating a strong understanding of programming
U24SE208: Programming Skill Development Lab1	fundamentals and algorithm design
	CO2: analyze and debug C programs to identify errors and optimize code
	performance, employingappropriate debugging techniques and tools
	CO3: apply advanced programming concepts such as dynamic memory allocation,
	data structures, and file handling in C to create robust and scalable solutions
	CO4: design, implement, and test real-world applications in C, simulating
	industry scenarios and preparing for technical roles in software development and
	problem-solving
	CO1 : synthesize literature survey, identify research gaps and define objective &
	scope of practicum problem
U24EL209:	CO2: apply knowledge to design & conduct experiments, utilize modern tools for
	solutionof practicum problem and develop working model/ process/ system
PRACTICUM-2	CO3: demonstrate the generic competencies in making a well-documented report
(I/II/III/IV SEM)	portraying knowledge, skills, qualities acquired through practicum
	CO4 : create a video pitch on practicum and make an effective oral presentation using
	PPTs
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(1,II,III,I,V,VI SEM)	an effective oral presentation with PPTs portraying knowledge, skills, qualities acquired
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UZTALAII.	date with industry knowledge, trends and technology CO2: identify what 21st century employability-related skills and professional etiquette
EXPERT TALK	are must in a range of recruitment situations, what skills are absent in him/her, and
SERIES-II	demonstrate skill improvement
	CO3 : interact with experts, exhibit confidence, demonstrate improved communication
	and networking abilities potentially leading to mentorship opportunities, internships, or
	even future job prospects CO4: demonstrate the generic competencies in making a well-documented report
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	expert talks
	CO1: classify OSI and TCP/IP reference models
U24CN211X: COMPUTER NETWORKS	CO2: examine data link and medium access control protocols
	CO3: develop routing algorithms and congestion control
FUNDAMENTALS	CO4: make use of Transport and Application Layer protocols in the networks
	1