



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**KAKINADA – 533 003, Andhra Pradesh, India**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**COURSE STRUCTURE**

I Year – I SEMESTER						
S. No	Course Code	Courses	L	T	P	Credits
1	HS	Communicative English	3	0	0	3
2	BS	Mathematics - I (Calculus And Differential Equations)	3	0	0	3
3	BS	Applied Physics	3	0	0	3
4	ES	Programming for Problem Solving using C	3	0	0	3
5	ES	Computer Engineering Workshop	1	0	4	3
6	HS	English Communication Skills Laboratory	0	0	3	1.5
7	BS	Applied Physics Lab	0	0	3	1.5
8	ES	Programming for Problem Solving using C Lab	0	0	3	1.5
<b>Total Credits</b>			<b>19.5</b>			

I Year – II SEMESTER						
S. No	Course Code	Courses	L	T	P	Credits
1	BS	Mathematics – II (Linear Algebra And Numerical Methods)	3	0	0	3
2	BS	Applied Chemistry	3	0	0	3
3	ES	Computer Organization	3	0	0	3
4	ES	Python Programming	3	0	0	3
5	ES	Data Structures	3	0	0	3
6	BS	Applied Chemistry Lab	0	0	3	1.5
7	ES	Python Programming Lab	0	0	3	1.5
8	ES	Data Structures Lab	0	0	3	1.5
9	MC	Environment Science	2	0	0	0
<b>Total Credits</b>			<b>19.5</b>			

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 ENGINEERING & TECHNOLOGY  
 PETLURIVARI PALEM  
 Narasaraopet (Mdl), Guntur, Dr



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**KAKINADA – 533 003, Andhra Pradesh, India**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

<b>I Year – II Semester</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>ENVIRONMENT SCIENCE</b>				

**Course Objectives:**

The objectives of the course are to impart:

- Overall understanding of the natural resources.
- Basic understanding of the ecosystem and its diversity.
- Acquaintance on various environmental challenges induced due to unplanned anthropogenic activities.
- An understanding of the environmental impact of developmental activities.
- Awareness on the social issues, environmental legislation and global treaties.

**UNIT I**

Multidisciplinary nature of Environmental Studies: Definition, Scope and Importance – Sustainability: Stockholm and Rio Summit–Global Environmental Challenges: Global warming and climate change, acid rains, ozone layer depletion, population growth and explosion, effects. Role of information technology in environment and human health.

Ecosystems: Concept of an ecosystem. - Structure and function of an ecosystem; Producers, consumers and decomposers. - Energy flow in the ecosystem - Ecological succession. - Food chains, food webs and ecological pyramids; Introduction, types, characteristic features, structure and function of Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems.

**UNIT II**

Natural Resources: Natural resources and associated problems.

Forest resources: Use and over – exploitation, deforestation – Timber extraction – Mining, dams and other effects on forest and tribal people.

Water resources: Use and over utilization of surface and ground water – Floods, drought, conflicts over water, dams – benefits and problems.

Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources.

Food resources: World food problems, changes caused by non-agriculture activities-effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity.

Energy resources: Growing energy needs, renewable and non-renewable energy sources use of alternate energy sources.

Land resources: Land as a resource, land degradation, Wasteland reclamation, man induced landslides, soil erosion and desertification; Role of an individual in conservation of natural resources; Equitable use of resources for sustainable lifestyles.

**UNIT III**

Biodiversity and its conservation: Definition: genetic, species and ecosystem diversity-classification - Value of biodiversity: consumptive use, productive use, social-Biodiversity at national and local levels. India as a mega-diversity nation - Hot-spots of biodiversity - Threats to biodiversity: habitat loss, man-wildlife conflicts. - Endangered and endemic species of India – Conservation of biodiversity: conservation of biodiversity.

*A.M. Reddy*  
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**UNIT IV**

Environmental Pollution: Definition, Cause, effects and control measures of Air pollution, Water pollution, Soil pollution, Noise pollution, Nuclear hazards. Role of an individual in prevention of pollution. - Pollution case studies, Sustainable Life Studies. Impact of Fire Crackers on Men and his well being.

Solid Waste Management: Sources, Classification, effects and control measures of urban and industrial solid wastes. Consumerism and waste products, Biomedical, Hazardous and e – waste management.

**UNIT V**

Social Issues and the Environment: Urban problems related to energy -Water conservation, rain water harvesting-Resettlement and rehabilitation of people; its problems and concerns. Environmental ethics: Issues and possible solutions. Environmental Protection Act -Air (Prevention and Control of Pollution) Act. –Water (Prevention and control of Pollution) Act - Wildlife Protection Act -Forest Conservation Act-Issues involved in enforcement of environmental legislation. -Public awareness.

Environmental Management: Impact Assessment and its significance various stages of EIA, preparation of EMP and EIS, Environmental audit. Ecotourism, Green Campus – Green business and Green politics.

The student should Visit an Industry / Ecosystem and submit a report individually on any issues related to Environmental Studies course and make a power point presentation.

**Text Books:**

- 1) Environmental Studies, K. V. S. G. Murali Krishna, VGS Publishers, Vijayawada
- 2) Environmental Studies, R. Rajagopalan, 2<sup>nd</sup> Edition, 2011, Oxford University Press.
- 3) Environmental Studies, P. N. Palanisamy, P. Manikandan, A. Geetha, and K. Manjula Rani; Pearson Education, Chennai

**Reference Books:**

- 1) Text Book of Environmental Studies, Deeshita Dave & P. Udaya Bhaskar, Cengage Learning.
- 2) A Textbook of Environmental Studies, Shaashi Chawla, TMH, New Delhi
- 3) Environmental Studies, Benny Joseph, Tata McGraw Hill Co, New Delhi
- 4) Perspectives in Environment Studies, Anubha Kaushik, C P Kaushik, New Age International Publishers, 2014

  
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E.mail: principal.amreddyengineering@gmail.com

VINUKONDA ROAD, MASTAN REDDY NAGAR, PETLURIVARI PALEM,  
NARASARAOPET PALNADU (DIST) - 522601,

CONTACT : 08647-247190.

I B.TECH II SEM CSE TIME TABLE (2022-2023)

W.E.F 27/2/2023

Period→ Day↓	1 (9.30 - 10.20)	2 (10.20-11.10)		3 (11.20-12.10)		4 (1.00 - 1.50)	5 (1.50-2.40)		6 (2.50-3.40)	7 (3.40-4.30)
MON	PYTHON	A.CHE	BREAK (11.10 F.N - 11.20 F.N)	DS	LUNCH BREAK (12.10 P.M - 1.00 P.M)	CO	LIB	BREAK (2.40 P.M - 2.50 P.M)	M-II	CO
TUE	CO	A.CHE		PYTHON		M-II	DS		ES	SPORTS
WED	PYTHON	M-II		A.CHEM		CO	← DS		LAB →	
THU	M-II	D.S		PYTHON		A.CHE	← PYTHON		LAB →	
FRI	M-II	PYTHON		A.CHE		CO	← A.CHE		LAB →	
SAT	CO	PYTHON		A.CHEM		ES	LIB		M-II	DS

	SUBJECT	NAME OF THE FACULTY
M-II	Mathematics-II	Mr.NAGUR MP
A.CHE	Applied Chemistry	Mr.SK.KARIMULLA
CO	Computer Organization	Mr.M.RAVINDRA BABU
PYTHON	Python Programming	Dr.K.NAVAZ
DS	Data Structures	Mrs.L.MOUNIKA
A.CHE LAB	Applied Chemistry Lab	Mr.SK.KARIMULLA
PYTHON LAB	Python Programming Lab	Dr.K.NAVAZ
DS LAB	Data Structures Lab	Mrs.L.MOUNIKA
ES	Environmental Science	Mrs. M. LAKSHMI

*[Signature]*  
HOD

*[Signature]*  
IN CHARGE

*[Signature]*  
Narasaraopet (M.D.S. Cantur) Dr.  
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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

II Year – I SEMESTER						
S. No	Course Code	Courses	L	T	P	Credits
1	BS	Mathematics III	3	0	0	3
2	CS	Object Oriented Programming through C++	3	0	0	3
3	CS	Operating Systems	3	0	0	3
4	CS	Software Engineering	3	0	0	3
5	CS	Mathematical Foundations of Computer Science	3	0	0	3
6	CS	Object Oriented Programming through C++ Lab	0	0	3	1.5
7	CS	Operating Systems Lab	0	0	3	1.5
8	CS	Software Engineering Lab	0	0	3	1.5
9	SO	<b>Skill oriented Course - I</b> Applications of Python-NumPy OR 2) Web Application Development Using Full Stack -Frontend Development – Module-I	0	0	4	2
10	MC	Constitution of India	2	0	0	0
<b>Total Credits</b>			<b>21.5</b>			

II Year – II SEMESTER						
S. No	Course Code	Courses	L	T	P	Credits
1	BS	Probability and Statistics	3	0	0	3
2	CS	Database Management Systems	3	0	0	3
3	CS	Formal Languages and Automata Theory	3	0	0	3
4	ES	Java Programming	3	0	0	3
5	HS	Managerial Economics and Financial Accountancy	3	0	0	3
6	CS	Database Management Systems Lab	0	0	2	1
7	CS	R Programming Lab	0	1	2	2
8	ES	Java Programming Lab	0	0	3	1.5
9	SO	<b>Skill Oriented Course - II</b> Applications of Python-Pandas OR 2) Web Application Development Using Full Stack -Frontend Development –Module-II	0	0	4	2
<b>Total Credits</b>			<b>21.5</b>			
10	Minor	Operating Systems <sup>§</sup>	3	0	2	3+1
11	Honors	Any course from the Pool, as per the opted track	4	0	0	4

§- Integrated Course

  
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<b>II Year - I Semester</b>		<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>CONSTITUTION OF INDIA</b>					

**Course Objectives:**

- To Enable the student to understand the importance of constitution
- To understand the structure of executive, legislature and judiciary
- To understand philosophy of fundamental rights and duties
- To understand the autonomous nature of constitutional bodies like Supreme Court and high court controller and auditor general of India and election commission of India.
- To understand the central and state relation financial and administrative

**Course Outcomes:**

At the end of the course, the student will be able to have a clear knowledge on the following:

- Understand historical background of the constitution making and its importance for building a democratic India.
- Understand the functioning of three wings of the government ie., executive, legislative and judiciary.
- Understand the value of the fundamental rights and duties for becoming good citizen of India.
- Analyze the decentralization of power between central, state and local self-government.
- Apply the knowledge in strengthening of the constitutional institutions like CAG, Election Commission and UPSC for sustaining democracy.
  1. Know the sources, features and principles of Indian Constitution.
  2. Learn about Union Government, State government and its administration.
  3. Get acquainted with Local administration and Pachayati Raj.
  4. Be aware of basic concepts and developments of Human Rights.
  5. Gain knowledge on roles and functioning of Election Commission

**UNIT I**

Introduction to Indian Constitution: Constitution meaning of the term, Indian Constitution - Sources and constitutional history, Features - Citizenship, Preamble, Fundamental Rights and Duties, Directive Principles of State Policy.

Learning outcomes: After completion of this unit student will

- Understand the concept of Indian constitution
- Apply the knowledge on directive principle of state policy
- Analyze the History, features of Indian constitution
- Evaluate Preamble Fundamental Rights and Duties

  
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**UNIT II**

Union Government and its Administration Structure of the Indian Union: Federalism, Centre-State relationship, President: Role, power and position, PM and Council of ministers, Cabinet and Central Secretariat, Lok Sabha, Rajya Sabha, The Supreme Court and High Court: Powers and Functions;

Learning outcomes: After completion of this unit student will

- Understand the structure of Indian government
- Differentiate between the state and central government
- Explain the role of President and Prime Minister
- Know the Structure of supreme court and High court

**UNIT III**

State Government and its Administration Governor - Role and Position - CM and Council of ministers, State Secretariat: Organisation, Structure and Functions

Learning outcomes: After completion of this unit student will

- Understand the structure of state government
- Analyze the role Governor and Chief Minister
- Explain the role of state Secretariat
- Differentiate between structure and functions of state secretariat

**UNIT IV**

A. Local Administration - District's Administration Head - Role and Importance, Municipalities - Mayor and role of Elected Representative - CEO of Municipal Corporation  
 Panchayati Raj: Functions PRI: Zila Panchayat, Elected officials and their roles, CEO Zila Panchayat: Block level Organizational Hierarchy - (Different departments), Village level - Role of Elected and Appointed officials - Importance of grass root democracy

Learning outcomes:-After completion of this unit student will

- Understand the local Administration
- Compare and contrast district administration role and importance
- Analyze the role of Mayor and elected representatives of Municipalities
- Evaluate Zilla Panchayat block level organisation

**UNIT V**

Election Commission: Election Commission- Role of Chief Election Commissioner and Election Commissionerate State Election Commission:, Functions of Commissions for the welfare of SC/ST/OBC and women

Learning outcomes: After completion of this unit student will

- Know the role of Election Commission apply knowledge
- Contrast and compare the role of Chief Election commissioner and Commissionerate
- Analyze role of state election commission
- Evaluate various commissions of viz SC/ST/OBC and women

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**References:**

- 1) Durga Das Basu, Introduction to the Constitution of India, Prentice Hall of India Pvt. Ltd.
- 2) SubashKashyap, Indian Constitution, National Book Trust
- 3) J.A. Siwach, Dynamics of Indian Government & Politics
- 4) D.C. Gupta, Indian Government and Politics
- 5) H.M.Sreevai, Constitutional Law of India, 4th edition in 3 volumes (Universal Law Publication)
- 6) J.C. Johari, Indian Government and Politics Hans
- 7) J. Raj Indian Government and Politics
- 8) M.V. Pylee, Indian Constitution Durga Das Basu, Human Rights in Constitutional Law, Prentice – Hall of India Pvt. Ltd.. New Delhi
- 9) Noorani, A.G., (South Asia Human Rights Documentation Centre), Challenges to Civil Right), Challenges to Civil Rights Guarantees in India, Oxford University Press 2012

**e-Resources:**

- 1) [nptel.ac.in/courses/109104074/8](https://nptel.ac.in/courses/109104074/8)
- 2) [nptel.ac.in/courses/109104045/](https://nptel.ac.in/courses/109104045/)
- 3) [nptel.ac.in/courses/101104065/](https://nptel.ac.in/courses/101104065/)
- 4) [www.hss.iitb.ac.in/en/lecture-details](http://www.hss.iitb.ac.in/en/lecture-details)
- 5) [www.iitb.ac.in/en/event/2nd-lecture-institute-lecture-series-indian-constitution](http://www.iitb.ac.in/en/event/2nd-lecture-institute-lecture-series-indian-constitution)

  
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NARASARAOPET PALNADU (DIST) - 522601,

CONTACT : 98447-24796

## DEPARTMENT OF CSE

II B.TECH I SEM - CSE

W.E.F: 05 - 09 - 2022

Period	1	2	3	4		5	6	7
Day/Time	9:30 TO 10:20	10:20 TO 11:10	11:20 TO 12:10	12:10 TO 1:00	1:00 TO 1:50	1:50 TO 2:40	2:40 TO 3:30	3:40 TO 4:20
MON	CPP	OS	M3	SE		SE	MFCS	CPP
TUE	OS	OS LAB				MFCS	SE	M3
WED	MFCS	CPP	OS	CPP		M3	COI	SE
THUR	M3	CPP LAB				CPP	MFCS	COI
FRI	SE LAB			MFCS		OS	M3	CPP
SAT	M3	SOC LAB				SE	OS	MFCS

S.No.	SUBJECTS	SUBJECTS NAMES	FACULTY NAMES
1	M-III	MATHEMATICS- III	Mr. NAGUR M.P
2	MFCS	MATHEMATICAL FOUNDATION OF COMPUTER SCIENCE	Dr.G.BHASKER REDDY
3	CPP	CPP	Dr.K VENKATARAMANA
4	OS	OPERATING SYSTEMS	Mr D.SUBBA RAO
5	SE	SOFTWARE ENGINEERING	Mr G. KOTESWARA RAO
6	CPP LAB	CPP LAB	Dr K VENKATARAMANA
7	OS & UNIX LAB	OPERATING SYSTEMS & UNIX PROGRAMMING LAB	Mr D.SUBBA RAO
8	SE	SOFTWARE ENGINEERING LAB	Mr G. KOTESWARA RAO
9	SOC LAB	SKILL ORIENTED COURSE LAB	Mrs V SAI SPANDANA
10	COI	Constintution of india	Mrs.M.LAKSHMI

  
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III B. Tech – I Semester						
S.No	Course Code	Courses	Hours per week			Credits
			L	T	P	
1	PC	Computer Networks	3	0	0	3
2	PC	Design and Analysis of Algorithms	3	0	0	3
3	PC	Data Warehousing and Data Mining	3	0	0	3
4	Open Elective / Job Oriented	<b>Open Elective-I</b> Open Electives offered by other departments/ Optimization in Operations Research (Job oriented course)	3	0	0	3
5	PE	<b>Professional Elective-I</b> Artificial Intelligence Software Project Management Distributed Systems Advanced Unix Programming	3	0	0	3
6	PC	Data Warehousing and Data Mining Lab	0	0	3	1.5
7	PC	Computer Networks Lab	0	0	3	1.5
8	SO	<b>Skill Oriented Course – III</b> 1. Animation course: Animation Design OR 2. Continuous Integration and Continuous Delivery using DevOps	0	0	4	2
9	MC	<b>Employability Skills-I</b>	2	0	0	0
10	PR	<b>Summer Internship 2 Months</b> (Mandatory) after second year (to be evaluated during V semester	0	0	0	1.5
<b>Total credits</b>						<b>21.5</b>
11	Minor	Database Management Systems <sup>s</sup>	3	0	2	3+1
12	Honors	Any course from the Pool, as per the opted track	4	0	0	4

§- Integrated Course

  
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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

<b>III Year – I Semester</b>		<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>EMPLOYABILITY SKILLS-I</b>					

**Course Objectives:**

The main objective of this course is to assist students in developing employability skills and personal qualities related to gaining and sustaining employment.

**Course Outcomes:** The end of the course student will be able to

- Understand the corporate etiquette.
- Make presentations effectively with appropriate body language
- Be composed with positive attitude
- Understand the core competencies to succeed in professional and personal life

**UNIT I:**

**Analytical Thinking & Listening Skills:** Self-Introduction, Shaping Young Minds - A Talk by Azim Premji (Listening Activity), Self – Analysis, Developing Positive Attitude, Perception.

**Communication Skills:** Verbal Communication; Non Verbal Communication (Body Language)

**UNIT II:**

**Self-Management Skills:** Anger Management, Stress Management, Time Management, Six Thinking Hats, Team Building, Leadership Qualities

**Etiquette:** Social Etiquette, Business Etiquette, Telephone Etiquette, Dining Etiquette

**UNIT III:**

**Standard Operation Methods:** Note Making, Note Taking, Minutes Preparation, Email & Letter Writing

**Verbal Ability:** Synonyms, Antonyms, One Word Substitutes-Correction of Sentences-Analogies, Spotting Errors, Sentence Completion, Course of Action -Sentences Assumptions, Sentence Arguments, Reading Comprehension, Practice work

**UNIT IV:**

**Job-Oriented Skills –I:** Group Discussion, Mock Group Discussions

**UNIT V:**

**Job-Oriented Skills –II:** Resume Preparation, Interview Skills, Mock Interviews

**Text Books and Reference Books:**

1. Barun K. Mitra, Personality Development and Soft Skills, Oxford University Press, 2011.
2. S.P. Dhanavel, English and Soft Skills, Orient Blackswan, 2010.
3. R.S.Aggarwal, A Modern Approach to Verbal & Non-Verbal Reasoning, S.Chand & Company Ltd., 2018.
4. Raman, Meenakshi & Sharma, Sangeeta, Technical Communication Principles and Practice, Oxford University Press, 2011.

**e-resources:**

1. [www.Indiabix.com](http://www.Indiabix.com)
2. [www.freshersworld.com](http://www.freshersworld.com)

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CONTACT : 08647-242190.

**DEPARTMENT OF CSE**

**III B.TECH I SEM\_CSE**

W.E.F: 11 - 07 - 2022

Period	1	2	3	4		5	6	7
Day/Time	9:30 TO 10:20	10:20 TO 11:10	11:20 TO 12:10	12:10 TO 1:00	1:00 TO 1:50	1:50 TO 2:40	2:40 TO 3:30	3:40 TO 4:20
MON	DAA	CN	BE	DW&DM		DW & DM LAB		
TUE	DAA	BE	CN	DW&DM		NP LAB		
WED	BE	DAA	SPM	SPM		BE	CN	DAA
THUR	DAA	DW&DM	SPM	SPM		SOC LAB		
FRI	DW&DM	DAA	ES	ES		CN	DW&DM	SPM
SAT	BE	DAA	SPM	SPM		CN	DW&DM	DW&DM

S.No.	SUBJECTS	SUBJECTS NAMES	FACULTY NAMES
1	SPM	SOFTWARE PROJECT MANAGEMENT	Dr.Y RAVIKUMAR
2	DAA	DESIGN AND ANALYSIS OF ALGORITHMS	Dr.K.N.V.R.KUMAR
3	DW & DM	DATA WAREHOUSING AND DATA MINING	Mr Y.KANAKA DURGA RAO
4	CN	COMPUTER NETWORKS	Mr. V.V. B CHARI
5	BE	BASICS OF ELECTRONICS	Mr. P.GANESH
6	DW&DM Lab	DATA WAREHOUSING AND DATA MINING LAB	Mr Y.KANAKA DURGA RAO
7	CN Lab	COMPUTER NETWORKS LAB	Mr. V.V.BCHARI
8	SOC Lab	SKILL ORIENTATION COURSE-III LAB	Mrs L.MOUNIKA
9	ES	Employeability Skills	Mrs.K.G.B Gowri

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PETLURIVARI PALEM,  
Narasaraopet, Guntur

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PETLURIVARI PALEM,  
Narasaraopet




**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
**KAKINADA – 533 003, Andhra Pradesh, India**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

III B. Tech – II Semester						
S.No	Course Code	Courses	Hours per week			Credits
			L	T	P	
1	PC	Machine Learning	3	0	0	3
2	PC	Compiler Design	3	0	0	3
3	PC	Cryptography and Network Security	3	0	0	3
4	PE	<b>Professional Elective-II</b> 1.Mobile Computing 2.Big Data Analytics 3.Object Oriented Analysis and Design 4.Network Programming	3	0	0	3
5	Open Elective /Job Oriented	<b>Open Elective-II</b> Open Electives offered by other departments/ MEAN Stack Development ( <i>Job Oriented</i> )	3	0	0	3
6	PC	Machine Learning using Python Lab	0	0	3	1.5
7	PC	Compiler Design Lab	0	0	3	1.5
8	PC	Cryptography and Network Security Lab	0	0	3	1.5
9	SO	<b>Skill Oriented Course - IV</b> 1.Big Data:Spark OR 2.MEAN Stack Technologies-Module I (HTML 5, JavaScript, Node.js, Express.js and TypeScript)	0	0	4	2
10	MC	Employability skills-II	2	0	0	0
<b>Total credits</b>						<b>21.5</b>
<b>Industrial/Research Internship(Mandatory) 2 Months during summer vacation</b>						
11	Minor	Data Structures and Algorithms <sup>\$</sup>	3	0	2	3+1
12	Honors	Any course from the Pool, as per the opted track	4	0	0	4
<b>Minor course through SWAYAM</b>			-	-	-	<b>2</b>

\$- Integrated Course

  
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**KAKINADA – 533 003, Andhra Pradesh, India**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

<b>III Year – II Semester</b>		<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>EMPLOYABILITY SKILLS-II</b>					

**Course Objectives:**

The main objective of this course is to assist students in developing employability skills and personal qualities related to gaining and sustaining employment.

**Course Outcomes:** After completion of this course

- Solve various Basic Mathematics problems by following different methods
- Follow strategies in minimizing time consumption in problem solving Apply shortcut methods to solve problems
- Confidently solve any mathematical problems and utilize these mathematical skills both in their professional as well as personal life.
- Analyze, summarize and present information in quantitative forms including table, graphs and formulas

**UNIT I:**

**Numerical ability I:** Number system, HCF & LCM, Average, Simplification, Problems on numbers

**Numerical ability II:** Ratio & Proportion, Partnership, Percentages, Profit & Loss

**UNIT II:**

**Arithmetical ability I:** Problems on ages, Time & Work, Pipes & Cistern, Chain Rule.

**Arithmetical ability II:** Time & Distance, Problems on boats & Steams, Problems on Trains

**UNIT III:**

**Arithmetical ability III:** Allegation, Simple interest and compound interest, Races & Games of skills, Calendar and Clock,

**Logical ability:** Permutations and Combination and Probability.

**UNIT IV:-**

**Mensuration:** Geometry, Areas, Volumes

**UNIT V:**


**Data interpretation:** Tabulation, Bar graphs, Pie charts, line graphs

**Text Books And Reference Books:**

1. R. S. Aggarwal “Quantitative Aptitude”, Revised ed., S Chand publication, 2017  
ISBN:8121924987

**E- resources:**

1. [https://blog.feedspot.com/aptitude\\_youtube\\_channels/](https://blog.feedspot.com/aptitude_youtube_channels/)
2. [https://www.tutorialspoint.com/quantitative\\_aptitude/](https://www.tutorialspoint.com/quantitative_aptitude/)
3. <https://www.careerbless.com/aptitude/qa/home.php>

  
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**KAKINADA – 533 003, Andhra Pradesh, India**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**IV Year – I SEMESTER**

S.No	Course Code	Courses	L	T	P	Credits
1	CS4101	Cryptography and Network Security	3	0	0	3
2	CS4102	UML & Design Patterns	3	0	0	3
3	CS4103	Machine Learning	3	0	0	3
4	OE4101	<b>Open Elective -II (Inter Disciplinary)</b>	3	0	0	3
5	PE4101	<b>Professional Elective- III</b> 1. Mobile Computing 2. Data Science 3. NoSQL Databases 4. Internet of Things 5. Software Project Management	3	0	0	3
6	PE4102	<b>Professional Elective- IV</b> 1. Web Services 2. Cloud Computing 3. Mean Stack Technologies 4. Ad-hoc and Sensor Networks 5. Cyber Security & Forensics	3	0	0	3
7	CS4104	UML Lab #	0	0	2	1
8	PR4101	Project- I	0	0	0	2
9	MC4101	IPR & Patents	3	0	0	0
<b>Total</b>			21	0	2	21
# Relevant theory to be taught in the lab						

**IV Year – II SEMESTER**

S.No	Course Code	Courses	L	T	P	Credits
1	HS4201	Management and Organizational Behavior	3	0	0	3
2	OE4201	<b>Open Elective- III (Inter Disciplinary)</b>	3	0	0	3
3	PE4201	<b>Professional Elective-V</b> 1. Deep Learning 2. Quantum Computing 3. DevOps 4. Blockchain Technologies 5. Big Data Analytics	3	0	0	3
4	PR4201	Project- II	0	0	0	7
<b>Total</b>			9	0	0	16

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

<b>IV Year –I Semester</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>IPR &amp; PATENTS</b>				

**Course Objectives:**

- To know the importance of Intellectual property rights, which plays a vital role in advanced Technical and Scientific disciplines
- Imparting IPR protections and regulations for further advancement, so that the students can familiarize with the latest developments

**Course Outcomes:**

- IPR Laws and patents pave the way for innovative ideas which are instrumental for inventions to seek Patents
- Student get an insight on Copyrights, Patents and Software patents which are instrumental for further advancements

**UNIT I**

Introduction to Intellectual Property Rights (IPR): Concept of Property - Introduction to IPR – International Instruments and IPR - WIPO - TRIPS – WTO -Laws Relating to IPR - IPR Tool Kit - Protection and Regulation - Copyrights and Neighboring Rights – Industrial Property – Patents - Agencies for IPR Registration – Traditional Knowledge –Emerging Areas of IPR - Layout Designs and Integrated Circuits – Use and Misuse of Intellectual Property Rights.

**UNIT II**

Copyrights and Neighboring Rights: Introduction to Copyrights – Principles of Copyright Protection – Law Relating to Copyrights - Subject Matters of Copyright – Copyright Ownership – Transfer and Duration – Right to Prepare Derivative Works –Rights of Distribution – Rights of Performers – Copyright Registration – Limitations – Infringement of Copyright – Relief and Remedy – Case Law - Semiconductor Chip Protection Act.

**UNIT III**

Patents: Introduction to Patents - Laws Relating to Patents in India – Patent Requirements – Product Patent and Process Patent - Patent Search - Patent Registration and Granting of Patent - Exclusive Rights – Limitations - Ownership and Transfer — Revocation of Patent – Patent Appellate Board - Infringement of Patent – Compulsory Licensing — Patent Cooperation Treaty – New developments in Patents – Software Protection and Computer related Innovations

**UNIT IV**

Trademarks: Introduction to Trademarks – Laws Relating to Trademarks – Functions of Trademark – Distinction between Trademark and Property Mark – Marks Covered under Trademark Law - Trade Mark Registration – Trade Mark Maintenance – Transfer of rights - Deceptive Similarities  
Likelihood of Confusion - Dilution of Ownership – Trademarks Claims and Infringement – Remedies – Passing Off Action.

**UNIT V**

Trade Secrets & Cyber Law and Cyber Crime: Introduction to Trade Secrets – General Principles - Laws Relating to Trade Secrets – Maintaining Trade Secret – Physical Security – Employee Access Limitation – Employee Confidentiality Agreements – Breach of Contract –Law of

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

Unfair Competition – Trade Secret Litigation – Applying State Law.

Cyber Law – Information Technology Act 2000 - Protection of Online and Computer Transactions –

E-commerce - Data Security – Authentication and Confidentiality - Privacy - Digital Signatures – Certifying Authorities - Cyber Crimes - Prevention and Punishment – Liability of Network Providers.

**References Books:**

- 1) Intellectual Property Rights (Patents & Cyber Law), Dr. A. Srinivas. Oxford University Press, New Delhi.
- 2) Deborah E. Bouchoux: Intellectual Property, Cengage Learning, New Delhi.
- 3) PrabhuddhaGanguli: Intellectual Property Rights, Tata Mc-Graw –Hill, New Delhi
- 4) Richard Stim: Intellectual Property, Cengage Learning, New Delhi.
- 5) Kompal Bansal & Parishit Bansal Fundamentals of IPR for Engineers, B. S. Publications (Press).
- 6) Cyber Law - Texts & Cases, South-Western's Special Topics Collections.
- 7) R.Radha Krishnan, S.Balasubramanian: Intellectual Property Rights, Excel Books. New Delhi.
- 8) M.Ashok Kumar and MohdIqbal Ali: Intellectual Property Rights, Serials Pub.

  
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 CONTACT : 08447-247190.

**DEPARTMENT OF CSE**

**IV B.TECH I SEM**

**W.E.F: 04 - 07 - 2022**

Period	1	2	3	4		5	6	7
Day/Time	9:30 TO 10:20	10:20 TO 11:10	11:20 TO 12:10	12:10 TO 1:00	1:00 TO 1:50	1:50 TO 2:40	2:40 TO 3:30	3:40 TO 4:20
MON	ES	CC	UML	ML	<b>L U N C H</b>	ES	SPM	IPR
TUE	UML	CC	ML	CNS		ES	IPR	SPM
WED	ML	CC	UML	CNS		UML LAB		
THUR	CNS	UML	ML	ES		CC	SPM	ES
FRI	ML	CNS	UML	CC		PROJECT-1		
SAT	ES	CNS	ML	UML		SPM	SPM	IPR

S.No.	SUBJECTS	SUBJECTS NAMES	FACULTY NAMES
1	SPM	SOFTWARE PROJECT MANAGEMENT	Dr.SK.MOULALI
2	UML	UNIFIED MODELING LANGUAGE	Mr.A. MADHAVA REDDY
3	ML	MACHINE LEARNING	Dr.B.CHANDRA SEKSHAR
4	CC	COULD COMPUTING	Mr K RAMALINGA REDDY
5	ES	EBEDDED SYSTEM	Mr.N RAMESH BABU
6	CNS	CREPTOGRAPHY AND NETWORK SECURITY	Mr N ANJANEYULU
7	UML LAB	UNIFIED MODELING LANGUAGE LAB	Mr.A. MADHAVA REDDY
8	Pro-1	PROJECT-1	Dr. G SAMBHASIVA RAO
9	IPR&P	IPR&Patents	Mrs.T.DEEPETHI

**HOD**

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 CONTACT : 08647-247190.

## III B.TECH II SEM

## DEPARTMENT OF CSE

W.E.F: 09-01-2023

Period	1	2	3	4		5	6	7
Day/Time	9:30 TO 10:20	10:20 TO 11:10	11:20 TO 12:10	12:10 TO 1:00	1:00 TO 1:50	1:50 TO 2:40	2:40 TO 3:30	3:40 TO 4:20
MON	CD	FMPMC	OOAD	ES	<b>B R E A K</b>	CD LAB		
TUE	OOAD	ML	CNS	ML		ES	FMPMC	LIB
WED	CD	CNS LAB				FMPMC	OOAD	ML
THUR	CD	FMPMC	CNS	Tutorial		ML LAB		
FRI	CD	ML	CNS	OOAD		SOC LAB		
SAT	OOAD	ES	CNS	ML		CD	FMPMC	SPORTS

S.No.	SUBJECTS	SUBJECTS NAMES	FACULTY NAMES
1	CNS	CRYPTOGRAPHY AND NETWORK SECURITY	Mr V.V.B CHARI
2	OOAD	OBJECT ORIENTED ANALYSIS AND DESIGN	Dr.S k Moulali
3	ML	MACHINE LEARNING	Dr.KALYAN CHAKRAVARTHY
4	CD	COMPILER DESIGN	Mr K RAMALINGA REDDY
5	FMPMC	Fundamentals of Micro Processors & Micro Controllars	Mr. CH. RAGHUNATHA BABU
6	CNS LAB	CRYPTOGRAPHY AND NETWORK SECURITY LAB	Mr V.V.B CHARI
7	ML LAB	MACHINE LEARNING LAB	Dr.KALYAN CHAKRAVARTHY
8	CD LAB	COMPILER DESIGN LAB	Mr K RAMALINGA REDDY
9	SOC	MEAN STACK TECHNOLOGY	Mr G.MOHAN SINGH & Mr K. SRINIVASA RAO
10	ES	EMPLOYBILITY SKIIS-II	Mr. T.RAVI SANKAR

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**KAKINADA – 533 003, Andhra Pradesh, India**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

IV Year –II Semester		L	T	P	C
		3	0	0	3
<b>MANAGEMENT AND ORGANIZATIONAL BEHAVIOR</b>					

**Course Objectives:**

- To familiarize with the process of management, principles, leadership styles and basic concepts on Organization
- To provide conceptual knowledge on functional management that is on Human resource management and Marketing management
- To provide basic insight into select contemporary management practices and Strategic Management
- To learn theories of motivation and also deals with individual behavior, their personality and perception of individuals
- To understand about organizations groups that affect the climate of an entire organizations which helps employees in stress management

**Course Outcomes:**

- After completion of the Course the student will acquire the knowledge on management functions, global leadership and organizational structure
- Will familiarize with the concepts of functional management that is HRM and Marketing of new product developments
- The learner is able to think in strategically through contemporary management practices
- The learner can develop positive attitude through personality development and can equip with motivational theories
- The student can attain the group performance and grievance handling in managing the organizational culture

**UNIT I**

Introduction: Management and organizational concepts of management and organization- Nature and Importance of Management, Functions of Management, System approach to Management - Taylor's Scientific Management Theory, Fayol's Principles of Management, Leadership Styles, Social responsibilities of Management. Designing Organizational Structures: Basic concepts related to Organization - Departmentation and Decentralization, MBO, Process and concepts.

**UNIT II**

Functional Management: Human Resource Management (HRM) Concepts of HRM, Basic functions of HR Manager: Manpower planning, Recruitment, Selection, Training and Development, Wage and Salary Administration Performance Appraisal, Grievance Handling and Welfare Administration, Job Evaluation and Merit Rating. Marketing Management: Concepts of Marketing, Marketing mix elements and marketing strategies.

**UNIT III**

Strategic Management: Strategic Management and Contemporary Strategic Issues: Mission, Goals, Objectives, Policy, Strategy, Programmes, Elements of Corporate Planning Process, Environmental Scanning, Value Chain Analysis, SWOT Analysis, Steps in Strategy Formulation and implementation, Generic Strategy alternatives. Bench Marking and Balanced Score Card as Contemporary Business Strategies.

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**UNIT IV**

Individual Behavior: Perception-Perceptual process- Impression management- Personality development – Socialization – Attitude- Process- Formation- Positive attitude- Change – Learning – Learning organizations- Reinforcement Motivation – Process- Motives – Theories of Motivation: Maslow's Theory of Human Needs, Douglas McGregor's Theory X and Theory Y, Herzberg's Two-Factor Theory of Motivation.

**UNIT V**

Group Dynamics: Types of Groups, Stages of Group Development, Group Behaviour and Group Performance Factors, Organizational conflicts: Reasons for Conflicts, Consequences of Conflicts in Organization, Types of Conflicts, Strategies for Managing Conflicts, Organizational Climate and Culture, Stress, Causes and effects, coping strategies of stress.

**Text Books:**

- 1) Subba Rao P., Organizational Behaviour, Himalaya Publishing House. Mumbai
- 2) L.M. Prasad, Principles and Practice of Management.

**Reference Books:**

- 1) Fred Luthans Organizational Behaviour, TMH, New Delhi.
- 2) Robins, Stephen P., Fundamentals of Management, Pearson, India.
- 3) Kotler Philip & Keller Kevin Lane: Marketing Mangement 12/e, PHI, 2007
- 4) Koontz & Weihrich: Essentials of Management, 6/e, TMH, 2007
- 5) Kanishka Bedi, Production and Operations Management, Oxford University Press, 2007.

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CONTACT : 08647-247195.

IV B.TECH CSE II SEM			DEPARTMENT OF CSE			W.E.F: 05 - 12 - 2022		
Period	1	2	3	4		5	6	7
Day/Time	9:30 TO 10:20	10:20 TO 11:10	11:20 TO 12:10	12:10 TO 1:00	1:00 TO 1:50	1:50 TO 2:40	2:40 TO 3:30	3:40 TO 4:20
MON	DevOps	ES	MOB	MOB	B R E K A	Project- II		
TUE	ES	DevOps	ES	MOB		Project- II		
WED	DevOps	MOB	ES	DevOps		Project- II		
THUR	MOB	DevOps	ES	DevOps		Project- II		
FRI	ES	DevOps	ES	MOB		Project- II / REVIEWS		
SAT	MOB	SEMINAR / REVIEWS				Project- II / REVIEWS		
S.No.	SUBJECTS	SUBJECTS NAMES			FACULTY NAMES			
1	MOB	Management and Organizational Behavior			Mrs.T.Deepthi			
2	OE-III	ES			Mrs.G SRAVANI			
3	PE-V	DevOps			Mr. B.CHANDRASEKHAR			
4	P=II	Project- II			Mr. G.SAMBHASIVA RAO			
<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  Incharge         </div> <div style="text-align: center;">  HOD         </div> <div style="text-align: center;">  PRINCIPAL         </div> </div>								

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III Year – I Semester	Mandatory course	L	T	P	C
		2	0	0	0
<b>MC(501) PROFESSIONAL ETHICS AND HUMAN VALUES</b>					

Course

Objectives: To give basic insights and inputs to the student to inculcate Human values to grow as responsible human beings with proper personality. Professional Ethics instills the student to maintain ethical conduct and discharge their professional duties.

**UNIT I: Human Values:**

Morals, Values and Ethics – Integrity – Trustworthiness - Work Ethics – Service Learning – Civic Virtue – Respect for others – Living Peacefully – Caring – Sharing – Honesty – Courage – Value Time – Co-operation – Commitment – Empathy – Self-confidence – Spirituality- Character.

Principles for Harmony:

Truthfulness – Customs and Traditions - Value Education – Human Dignity – Human Rights – Fundamental Duties - Aspirations and Harmony (I, We & Nature) – Gender Bias - Emotional Intelligence – Salovey – Mayer Model – Emotional Competencies – Conscientiousness.

**UNIT II: Engineering Ethics and Social Experimentation:**

History of Ethics - Need of Engineering Ethics - Senses of Engineering Ethics- Profession and Professionalism – Self Interest - Moral Autonomy – Utilitarianism – Virtue Theory - Uses of Ethical Theories - Deontology- Types of Inquiry – Kohlberg’s Theory - Gilligan’s Argument – Heinz’s Dilemma - Comparison with Standard Experiments – Learning from the Past – Engineers as Managers – Consultants and Leaders – Balanced Outlook on Law - Role of Codes – Codes and Experimental Nature of Engineering.

**UNIT III: Engineers’ Responsibilities towards Safety and Risk:**

Concept of Safety - Safety and Risk – Types of Risks – Voluntary v/s Involuntary Risk – Consequences - Risk Assessment – Accountability – Liability - Reversible Effects - Threshold Levels of Risk - Delayed v/s Immediate Risk - Safety and the Engineer – Designing for Safety – Risk-Benefit Analysis-Accidents.

**UNIT IV: Engineers’ Duties and Rights:**

Concept of Duty - Professional Duties – Collegiality - Techniques for Achieving Collegiality – Senses of Loyalty - Consensus and Controversy - Professional and Individual Rights – Confidential and Proprietary Information - Conflict of Interest-Ethical egoism - Collective Bargaining – Confidentiality - Gifts and Bribes - Problem solving-Occupational Crimes- Industrial Espionage Price Fixing-Whistle Blowing.

**UNIT V: Global Issues:**

Globalization and MNCs – Cross Culture Issues - Business Ethics – Media Ethics - Environmental Ethics – Endangering Lives - Bio Ethics - Computer Ethics - War Ethics – Research Ethics - Intellectual Property Rights.

- Related Cases Shall is dealt where ever necessary.

Course Outcomes: It gives a comprehensive understanding of a variety issues that are encountered by every professional in discharging professional duties.

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CONTACT : 08647-247190.

## DEPARTMENT OF CIVIL ENGINEERING

### III B.TECH I SEMESTER TIME TABLE (2022-2023)

	1	2		3	4		5	6		7
Time/Day	9:30 TO 10:20	10:20 TO 11:10	11:10 TO 11:20	11:20 TO 12:10	12:10 TO 1:00	1:00 TO 1:50	1:50 TO 2:40	2:40 TO 3:30	3:30 TO 3:40	3:40 TO 4:20
MON	GT-1	DDRCS	B R E A K	SA	RS&GIS	L U N C H	GT-LAB		B R E A K	GT-LAB
TUE	SA	DDRCS		RS&GIS	GT-1(T)		S.A.C - LAB			S.A.C-LAB
WED	DDRCS	GT-I		SWH	RS&GIS		S.O-LAB			S.O-LAB
THU	RS&GIS	GT-1		SA	DDRCS(T)		SEMINAR	LIBRARY		PE&HV
FRI	GT-1	SWH		S.A.C	RS&GIS(T)		PE&HV	SA(T)		PE&HV
SAT	SA	SWH		DDRCS	SWH		SWH(T)	SEMINAR		SPORTS

S.no	Subject	Name of the Subject	Subject Code	Name of the Faculty	Phone Number
1	SA	Structural Analysis	R2031011	Mr.A.Ravi Kumar	8074057030
2	DDRCS	Design & Drawing Of Reinforced Concrete Structures	R2031012	Mr.R.Rathaiah	8106059905
3	GT-1	Geotechnical Engineering-I	R2031013	Mr.D.Jagadeeswar rao	9160817575
4	RS&GIS	Remote Sensing & Geographical Information System	R203101B	Mr.A.Rama Krishna Reddy	8297880368
5	SWH	Surface Water Hydrology	R203135H	Mrs.M.Mounika	8106971454
6	PE&HV	Professional Ethics & Human Values	R2031017	Mrs.T.Deepthi	9581883346
7	GT-LAB	Geotechnical Engineering-Lab	R2031015	Mr.D.Jagadeeswar rao	9160817575
8	S.A.C-LAB	Skill Advanced Course Lab	R2031019	Mr.A.Rama Krishna Reddy	8297880368
9	S.O-LAB	Skill Oriented Lab	R2031014	Mr.R.Rathaiah	8106059905
11	Internship	Industrial Internship	R2031018	Mr.K.Sreekar Chand	7013447854

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