



Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)
(Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3rd Cycle - 3.64
CGPA) Dr. N.G.P. - Kalapatti Road, Coimbatore - 641 048, Tamil Nadu, India
Web : www.drnpgasc.ac.in | Email : info@drnpgasc.ac.in | Phone : +91-422-2369100

REGULATIONS 2026-27 for Under Graduate Programme (Outcome Based Education model with Choice Based Credit System)

Bachelor of Science in Computer Technology Degree

(For the students admitted during the academic year 2026-27 and onwards)

Programme: B.Sc. (Computer Technology)

Eligibility

Candidates for admission to the first year of the **Bachelor of Science (Computer Technology)** Degree Programme shall be required to have passed in the Higher Secondary Examinations conducted by the Government of Tamil Nadu in the relevant subjects or an Examination accepted as equivalent thereto by the Academic Council. Subject to such other conditions as may be prescribed there to are permitted to appear and qualify with any one of the following subjects: Mathematics / Computer Science / Statistics / Business Mathematics and wherever the students have not studied Mathematics, the necessary Mathematics knowledge be imparted through Tutorial/ Bridge Course.

Programme Educational Objectives

The Curriculum is designed to attain the following learning goals which students shall accomplish by the time of their graduation:

1. Demonstrating a significant understanding the Key Concepts of various Computer technologies.
2. To stimulate the interest among the learners on various technologies through Lab sessions.
3. Inculcating professional competence in technologies, software design, database and Quality Assurance.
4. To facilitate the learners to develop skills to meet the requirements of the corporate.
5. To develop competency in research and in current technologies.

PROGRAMME OUTCOMES

On the successful completion of the program, the following are the expected outcomes.

PO Number	PO Statement
PO1	Capability to intend, execute and assess a computer based system on par with the industry standards through the ability to identify the problem and capability to provide a solution
PO2	Correlate the knowledge of mathematics and computing in the field of project development and apply the obtained knowledge in real - time platform using latest tools and technologies
PO3	Ability to excel in the field of IT and ITES by enduring learning to accomplish their goals
PO4	Improve the ability to communicate effectively and to work as individual or team in the industry / enterprise / community
PO5	Understand proficient, ethical, and social issues and community responsibilities

B.Sc. Computer Technology
Credit Distribution

Part	Subjects	No. of Papers	Credit	Semester No.
I (12 Credits)	Tamil/Hindi/French/Malayalam	4	4 x 3 = 12	I to IV
II (12 Credits)	English	4	4 x 3 = 12	I to IV
III (108 Credits)	Core (Credits 4)	11	11 x 4 = 44	I to VI
	Core (Credits 3)	2	2 x 3 = 6	III & VI
	Core Practical (Credits 5) (Embedded)	2	2 x 5 = 10	III to IV
	Core Project (Credits 4)	1	1 x 4 = 4	VI
	Core Practical (Credits 2)	3	3 x 2 = 6	I, II & V
	Inter Departmental Course (IDC)	4	4 x 4 = 16	I to IV
	Discipline Specific Elective (DSE)	3	3 x 4 = 12	V & VI
	Skill Enhancement Course (SEC)	4	4 x 2 = 8	III, IV, V&VI
	Industrial Training	1	1 x 2 = 2	V
IV (8 Credits)	Environmental Studies (AECC)	1	2	I
	Basic Tamil/Advance Tamil/Human Rights, & Women's Rights (AECC)	1	2	II
	Innovation & IPR/ Innovation, IPR & Entrepreneurship (AECC)	1	2	VI
	Generic Elective (GE)	1	1 x 2 = 2	V
V (2 Credits)	NSS/NCC/YRC/RRC/Yoga/Sports/Health and Wellness	-	2 x 1 = 2	I & II
TOTAL CREDITS			142	

CURRICULUM
B. Sc. Computer Technology

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
First Semester												
Part- I												
26TLU1TA	Language-I	Tamil-I	4	1	-	5	60	3	25	75	100	3
26TLU1HA		Hindi-I										
26TLU1MA		Malayalam-I										
26TLU1FA		French-I										
Part- II												
26ELU1EA	Language-II	English-I	4	-	1	5	60	3	25	75	100	3
Part- III												
26AIU1CA	Core-I	Programming in C	4	1	-	5	60	3	25	75	100	4
26CYU1CA	Core-II	Computer Organization and Architecture	4	-	-	4	48	3	25	75	100	4
26CTU1CP	Core Practical-I	C Programming	-	-	4	4	48	3	40	60	100	2
26MTU1IC	IDC-I	Numerical Methods and Statistics	4	1	-	5	60	3	25	75	100	4
Part-IV												
26CEU1AA	AECC-I	Environmental Studies	2	-	-	2	24	3	50	-	50	2
Part-V												
26CTU1XA	Extension Activity	NSS/NCC/ YRC/RRC/ Yoga/Sports/ Clubs	-	-	-	-	-	-	50	-	50	1
Total			22	3	5	30	360	-	-	-	700	23

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
Second Semester												
Part-I												
26TLU2TA	Language-I	Tamil-II	4	1	-	5	60	3	25	75	100	3
26TLU2HA		Hindi-II										
26TLU2MA		Malayalam-II										
26TLU2FA		French-II										
Part- II												
26ELU2EA	Language-II	English-II	4	-	1	5	60	3	25	75	100	3
Part- III												
26CAU2CA	Core-III	Data Structures	4	1	-	5	60	3	25	75	100	4
26CSU2CA	Core-IV	Python Programming	4	-	-	4	48	3	25	75	100	4
26CTU2CP	Core Practical-II	Programming in Python	-	-	4	4	48	3	40	60	100	2
26MTU2IC	IDC-II	Discrete Mathematics	4	1	-	5	60	3	25	75	100	4
Part-IV												
26TLU2AA	AECC-II	Basic Tamil	2	-	-	2	24	3	50	-	50	2
26TLU2AB		Advanced Tamil										
26CMU2AA		Human Rights & Women's Rights										
Part-V												
26CTU2XA	Extension Activity	NSS/NCC/YRC/RRC/Yoga/Sports/Clubs/ Health and Wellness	-	-	-	-	-	-	50	-	50	1
Total			22	3	5	30	360	-	-	-	700	23

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
Third Semester												
Part - I												
26TLU3TA	Language-I	Tamil - III	3	1	-	4	48	3	25	75	100	3
26TLU3HA		Hindi-III										
26TLU3MA		Malayalam-III										
26TLU3FA		French-III										
Part - II												
26ELU3EA	Language-II	English-III	3	1	-	4	48	3	25	75	100	3
Part - III												
26CAU3CA	Core -V	Java Programming	4	-	-	4	48	3	25	75	100	4
26CSU3CA	Core-VI	Operating Systems	3	-	-	3	36	3	25	75	100	3
26CTU3CM	Core Practical-III	Database Management Systems	3	-	4	7	84	3	40	60	100	5
26CTU3SP	SEC Practical-I	Programming in Java	-	-	4	4	48	3	40	60	100	2
26PYU3IA	IDC-III	Embedded Systems	4	-	-	4	48	3	25	75	100	4
Total			20	2	8	30	360	-	-	-	700	24

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
Fourth Semester												
Part - I												
26TLU4TA	Language-I	Tamil -IV	3	1	-	4	48	3	25	75	100	3
26TLU4HA		Hindi-IV										
26TLU4MA		Malayalam-IV										
26TLU4FA		French-IV										
Part - II												
26ELU4EA	Language-II	English-IV	3	1	-	4	48	3	25	75	100	3
Part - III												
26CTU4CA	Core-VII	Data Communication and Networks	4	-	-	4	48	3	25	75	100	4
26CGU4CB	Core-VIII	Cyber Security	3	-	-	3	36	3	25	75	100	3
26ITU4CM	Core Practical-IV	Mobile Application Development	3	-	4	7	84	3	40	60	100	5
26CTU4SP	SEC Practical-II	Network Programming	-	-	4	4	48	3	40	60	100	2
26BPU4IB	IDC-IV	Business Intelligence	4	-	-	4	48	3	25	75	100	4
Total			20	2	08	30	360	-	-	-	700	24

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
Fifth Semester												
Part-III												
26CTU5CA	Core-IX	Software Engineering	4	1	-	5	60	3	25	75	100	4
26CTU5CB	Core-X	Linux Programming	4	1	-	5	60	3	25	75	100	4
26ITU5CA	Core-XI	Full Stack development	4	1	-	5	60	3	25	75	100	4
26CTU5CP	Core Practical-V	Programming in Linux	-	-	4	4	48	3	40	60	100	2
26CTU5SP	SEC Practical-III	Full Stack Web Application development	-	-	4	4	48	3	40	60	100	2
26CTU5DA	DSE-I	Data Mining and Warehousing	4	1	-	5	60	3	25	75	100	4
26CTU5DB		Distributed Computing										
26CTU5DC		Software Design and Modeling										
26CTU5TA	IT	Industrial Training	-	-	-	-	-	3	40	60	100	2
Part-IV												
	GE		2	-	-	2	24	3	50	-	50	2
Total			18	4	8	30	360	-	-	-	750	24

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits	
						Week	Total		CIA	ESE	Total		
Sixth Semester													
Part-III													
26CTU6CA	Core-XII	Fundamentals of Internet of Things	4	-	-	4	48	3	25	75	100	4	
26CTU6CB	Core-XIII	Cryptography and Network Security	4	-	-	4	48	3	25	75	100	4	
26CTU6SP	SEC Practical-IV	Internet of Things	-	-	4	4	48	3	40	60	100	2	
26CTU6CV	Core-XIV	Project and Viva-Voce	-	-	8	8	96	3	40	60	100	4	
26CTU6DA	DSE-II	Artificial Intelligence and Machine Learning	4	-	-	4	48	3	25	75	100	4	
26CTU6DB		Cloud Computing											
26CTU6DC		Software Testing and Quality Assurance											
26CTU6DD	DSE-III	Big Data Tools and Technologies	4	-	-	4	48	3	25	75	100	4	
26CTU6DE		Blockchain Technology											
26CTU6DF		DevOps Fundamentals											
Part - IV													
26BTU6AA	AECC-III	Innovation, IPR and Entrepreneurship	2	-	-	2	24	3	50	-	50	2	
Total			18	-	12	30	360	-	-	-	650	24	
*Grand Total											4200	142	

*Total Credit should not exceed 142 credits

DISCIPLINE SPECIFIC ELECTIVE

Students shall select the desired course of their choice in the listed elective course during Semesters V & VI

Semester V (Elective I)

List of Elective Courses

S. No.	Course Code	Name of the Course
1	26CTU5DA	Data Mining and Warehousing
2	26CTU5DB	Distributed Computing
3	26CTU5DC	Software Design and Modeling

Semester VI (Elective II)

List of Elective Courses

S. No.	Course Code	Name of the Course
1	26CTU6DA	Artificial Intelligence and Machine Learning
2	26CTU6DB	Cloud Computing
3	26CTU6DC	Software Testing and Quality Assurance

Semester VI (Elective III)

List of Elective Courses

S. No.	Course Code	Name of the Course
1	26CTU6DD	Big Data Tools and Technologies
2	26CTU6DE	Blockchain Technology
3	26CTU6DF	DevOps Fundamentals

GENERIC ELECTIVE COURSES(GE)

The following is the course offered under Generic Elective Course

Semester V

S. No.	Course Code	Name of the Course
1	26CTU5GA	Web Development Essentials

EXTRA CREDIT COURSES

The following are the courses offered under self-study to earn extra credits:

Semester III

S. No.	Course Code	Name of the Course
1	26CTUSSA	UI/UX Design
2	26CTUSSB	Introduction to Data Science


BoS Chairman/HoD
 Department of Computer Technology
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 Coimbatore – 641 048

			Dr.N.G.P. Arts and Science College		
APPROVED					
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Semester - I CORE I: PROGRAMMING IN C							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	26AIU1CA	PROGRAMMING IN C	CORE	48	12	-	4

Preamble	This course has been designed for students to learn and understand - the C language fundamentals. - the programs using functions, arrays and strings. - the representation and working of pointers, structures and files.
Prerequisite	Knowledge on Logical Thinking

Course Outcomes (Cos)		
CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Understand the fundamentals of C Language	K2
CO2	Implement decision making using branching and looping.	K3
CO3	Develop programs using arrays and functions	K3
CO4	Analyze the use of Strings and pointers.	K4
CO5	Assess programs using structures and files.	K5

Mapping with Program Outcomes:					
Cos / POs	PO1	PO2	PO3	PO4	PO5
CO1	S	M	S	S	M
CO2	S	S	S	M	S
CO3	M	M	S	S	S
CO4	S	S	M	M	M
CO5	M	S	S	M	S

26AIU1CA	PROGRAMMING IN C
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Syllabus

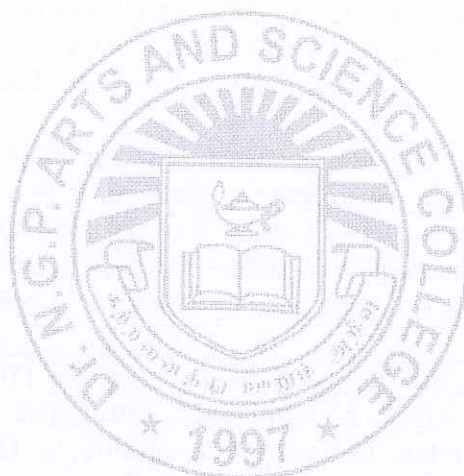
Unit	Content	Hrs	Resources
I	C Programming: Introduction to C - Structure of C program - C Tokens- Character set - Keywords -Data types - Variables - Constants - Input/Output statements - Operators - Type Conversion and Type casting.	12	Text Book/ Reference Books/NPTEL
II	Decision making and Iterative statements: Conditional and Branching Statements: if statement - if-else statements - if-else-if statement - switch statement - Iterative statements: while loop - do-while loop - for loop - Nested loops - Break and Continue statements - goto.	12	Text Book/ Reference Books/NPTEL
III	Function and Arrays: Function: Need for functions - Elements of functions - Function declaration and prototypes- parameter passing- scope of variables - Storage Classes - recursive function - Arrays: Introduction - Types of arrays - Declaration and Initialization of Arrays -Passing arrays to functions.	12	Text Book/ Reference Books/NPTEL
IV	Strings and Pointers: Declaring and Initializing the string variables - String handling functions. Pointers: Understanding Pointers - Declaration and Initialization of pointer variables - Accessing variables through pointers - Pointers and arrays - Pointers and Strings - Dynamic memory allocation.	12	Text Book/ Reference Books/NPTEL
V	Structures and Files: Structures - Nested structures - Pointer and Structures - Array of structures -Structures and functions- Union. Files: Defining and opening a File - Closing a file - I/O Operations on files - Command Line Arguments.	12	Text Book/ Reference Books/NPTEL
Total		60	

Text book	1.	Reema Thareja, 2016, "Programming in C", 2nd Edition, Oxford University Press.
	1.	E. Balagurusamy, 2017, "Programming in ANSI C", 7th Edition, TMH.
Reference Books	2.	Paul Deitel, Harvey Deitel, 2019, "C How to Program", 8th Edition, Pearson
	3.	Ashok N. Kamthane, 2009, "Programming and Data Structures", 1st Edition, Pearson Education.
	4.	Anita Goel, Ajay Mittal, 2016, "Computer Fundamentals and Programming in C", 1st Edition, Pearson.
	5.	Byron Gottfried, 2018, "Schaum's Outline of Programming with C", 4th Edition, McGraw Hill Education.

Journal and Magazines	-
E-Resources and Website	https://nptel.ac.in

Learning Method	Chalk and Talk/ Assignment/Seminar/ Group Discussion/Case Study
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Focus of the Course	Skill Development/ Employability/ Entrepreneurial Development/ Innovations
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Semester - I							
CORE II: COMPUTER ORGANIZATION AND ARCHITECTURE							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	26CYU1CA	COMPUTER ORGANIZATION AND ARCHITECTURE	CORE	48	-	-	4

Preamble	This course has been designed for students to learn and understand • The fundamental digital logic concepts. • The combinational logic circuits and sequential logic circuits. • The concepts behind memory design and its memory types.
Prerequisite	A basic understanding of mathematics and logical reasoning

Course Outcomes (Cos)		
CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Understand the functionality of basic logic gates and Boolean Algebra.	K2
CO2	Describe the principles of combinational and sequential logic circuits.	K3
CO3	Demonstrate proficiency in binary number representation, base conversions and operations	K3
CO4	Understand key concepts of Computer Organization.	K4
CO5	Interpret the basic concepts of memory hierarchy and its components.	K5

Mapping with Program Outcomes:					
Cos/ POs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	S	S	M
CO2	S	S	S	S	S
CO3	S	S	S	M	M
CO4	S	S	M	S	S
CO5	M	S	S	M	S

26CYU1CA	COMPUTER ORGANIZATION AND ARCHITECTURE
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Syllabus

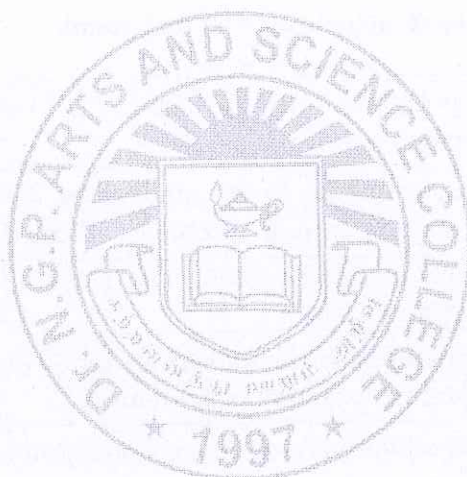
Unit	Content	Hrs	Resources
I	Digital Logic Circuits Digital Computers-Logic Gates- Boolean Algebra: Boolean Function-Boolean Expression-DeMorgans Theorem- Complement of a function- Map Simplification: Product of Sums Simplification-Don't Care Conditions.	8	Text Book
II	Combinational and Sequential Circuits Combinational Circuits: Half Adder-Full Adder- Sequential Circuits: Flip Flops: SR, JK, T, Edge Triggered. Digital Components: Integrated Circuits-Decoders-Encoder-Multiplexer- Registers- Demultiplexer.	10	Text Book
III	Data Representation Number Systems: Decimal-Binary-Octal-Hexadecimal- Conversion. Complements: r-1's complements, r's complements - Subtraction of unsigned numbers - Arithmetic Addition - Arithmetic Subtraction - Other binary codes.	10	Text Book
IV	Computer Organization Instruction codes - Computer registers - Computer instructions - Timing and control - Instruction Cycle - Input/Output configuration - Input/Output instructions - Program interrupt - Interrupt cycle	10	Text Book
V	Memory Organization Central Processing Unit: Instruction formats and Addressing Modes. Memory Hierarchy - Main Memory - Auxillary Memory - Associative memory - Cache memory.	10	Text Book
Total		48	

Text book	1.	M. Morris Mano, 2022, "Computer System Architecture", 3 rd edition, Pearson India Education.
Reference Books	1.	M. Morris Mano, 2019, "Digital Logic and Computer Design", Pearson India Education.
	2.	S. Salivahanan and S Arivazhagan, 2018, "Digital Circuits and Design", 5 th Edition, Oxford University Press, Noida.
	3.	Thomas Floyd L., 2015, "Digital Fundamentals", 11 th Edition, Pearson Publication Ltd, New Delhi

Journal and Magazines	https://ieeexplore.ieee.org/document/1641522
E-Resources and Website	https://onlinecourses.nptel.ac.in/noc22_cs88/preview https://www.youtube.com/channel/UC2GUBG_WsP0OQ5tXXocwp3Q/videos

Learning Method	Chalk and Talk/Assignment/Seminar/ Group Discussion/Case Study
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Focus of the Course	Skill Development
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Semester -I CORE PRACTICAL I: C PROGRAMMING							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	26CTU1CP	C PROGRAMMING	CORE PRACTICAL	-	-	48	2

Preamble	This course has been designed for students to learn and understand • Structure of C along with its basic building blocks • Macros, Matrix, Functions • Pointers, Structures and Files.
Prerequisite	Problem Solving skills

Course Outcomes (Cos)		
CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Demonstrate programs using Operators, Decision Making Statements.	K2
CO2	Apply iteration statements, arrays, and string handling functions to solve programming problems efficiently.	K3
CO3	Manipulate arrays of structures and matrices to handle complex data systematically.	K3
CO4	Analyze C programs using pointers to efficiently manage memory and optimize program performance.	K4
CO5	Evaluate file operations with command-line arguments to develop programs	K5

Mapping with Program Outcomes:					
Cos/ POs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	S	S	S
CO2	S	S	S	M	S
CO3	S	S	S	S	M
CO4	S	S	S	M	M
CO5	S	S	S	M	M

26CTU1CP	C PROGRAMMING
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S.No

List of Programs

- 1 Write a C program to find Simple interest and Compound interest.
- 2 Write a program to implement a simple calculator using switch and if-else ladder.
- 3 Write a program to generate Fibonacci series using loops.
- 4 Write a program to print number and star patterns using nested loops.
- 5 Write a program to find the largest and smallest elements in an array.
- 6 Write a program for matrix multiplication.
- 7 Write a program to check whether a string is a palindrome or not (without using library functions)
- 8 Write a program to find factorial of a number using recursive function.
- 9 Write a program to demonstrate passing arrays to a function.
- 10 Write a program to swap two numbers using pointers.
- 11 Write a program to store and display student details using structures.
- 12 Program to implement various file operations

Text Books	1.	Yashavant Kanetkar, 2022, "Let us C: Authentic guide to C Programming", 19 th Edition, BPB Publications.
	2.	Byron Gottfried, 2018, "Schaum's Outline of Programming with C", 4 th Edition, McGraw Hill Education.

Learning Method	Demonstration/ Hands on Experiments
Focus of the Course	Skill Development/ Employability

Semester – I IDC I: NUMERICAL METHODS AND STATISTICS							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	26MTU1IC	NUMERICAL METHODS AND STATISTICS	IDC	48	12	-	4

Preamble	This course has been designed for students to learn and understand - the method of solving linear system of equations - the relation between two attributes and measure their efficiency - the method of checking the validity of parameters through test statistic
Prerequisite	Knowledge on Basic Mathematics

Course Outcomes (Cos)		
CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Explain Newton-Raphson and various direct and iterative methods	K2
CO2	Apply interpolation and numerical integration methods to solve problems	K3
CO3	Recall concepts of frequency distribution, mean, median, mode, and dispersion	K1
CO4	Analyze relationships between variables using correlation and regression	K4
CO5	Evaluate hypotheses and draw conclusions based on statistical tests	K5

Mapping with Program Outcomes:					
Cos / POs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	S	S	M
CO2	S	M	S	M	M
CO3	M	S	M	S	S
CO4	S	M	M	S	S
CO5	M	S	S	S	M

26MTU1IC	NUMERICAL METHODS AND STATISTICS
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Syllabus

Unit	Content	Hrs	Resources
I	Solution of Algebraic, Transcendental and Linear systems of Equations Introduction - Newton-Raphson method - direct methods - matrix inversion method - Gaussian elimination method - Gauss Jordan method - iterative methods - Gauss Seidel method - Gauss Jacobi method.	13	Text Book 1
II	Interpolation, Numerical Differentiation and Integration Introduction - Finite difference - Newton's formula for forward and backward interpolation - Interpolation with unevenly spaced points: Lagrange's interpolation - Numerical differentiation - maximum and minimum values of a tabulated Function - Numerical integration - Trapezoidal rule - Simpson's 1/3 Rule - Simpson's 3/8 Rule.	12	Text Book 1
III	Classification, Measures of Central tendency and Dispersion Frequency distribution - Characteristics of a good measure of central tendency - Mean - Arithmetic Mean - pooled mean - Geometric Mean - Harmonic Mean - Median - Mode. Measures of Dispersion - purposes - properties - Range - Inter quartile range - Mean deviation - Variance - Standard Deviation - coefficient of variation.	13	Text Book 2
IV	Correlation and Regression Scatter diagram - Least square method of fitting a regression line - properties - regression line of X on -Y - Correlation methods - determination of correlation by graphical method - Correlation Coefficient - Correlation in grouped bivariate data - relationship between correlation coefficients and regression coefficient - Rank correlation.	11	Text Book 2
V	Test of Significance and Chi-square Test Test of hypothesis for population variance - two types of error - level of significance - critical region - one and two tailed test - size and power of a test - randomized test - non-randomized test - degrees of freedom - student's t-test - test of equality of two population means - paired t- test. Chi-square Test: test of hypothesis for population variance - test of goodness of fit - test in one way classification - Contingency table - Test of independence of factors - Yate's correction.	11	Text Book 2
Total		60	

Note: 20% Theory and 80% Problem

Text book	1.	Sastry S.S., 2012, "Introductory methods of Numerical Analysis", Prentice-Hall of India, New Delhi (Unit I to II).
	2.	Agarwal B L, 2013, "Basic Statistics", New age International (P) Limited publishers, New Delhi. (Unit III to V).
Reference Books	1.	Gupta C.B. and Vijay Gupta, 2007, "Introduction to Statistical Methods", S.Chand & Co, New Delhi.
	2.	Sanchetti D C, Kapoor V K, 2010, "Statistics", S.Chand & Co, New Delhi.
	3.	Venkataraman M K, 2004, "Numerical Methods in Science and Engineering", 4 th Edition, NPC.
	4.	Veerarajan T, Ramachandran T, 2004, "Theory and Problems in Numerical Methods with Programs in C and C++", 10 th Edition, Tata Mc- Graw Hill Publishing Company Limited, New Delhi.

Journal and Magazines	https://www.worldscientific.com/worldscinet/bms
E-Resources and Website	https://nptel.ac.in

Learning Method	Chalk and Talk/ Assignment/Seminar
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Focus of the Course	Skill Development/ Employability
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 BoS Chairman/HoD
 Department of Computer Technology
 Dr. N. G. P. Arts and Science College
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 Dr.N.G.P. Arts and Science College		
APPROVED		
BoS- 21 st 01/04/26	AC -	GB -