

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.drngpasc.ac.in | Email : info@drngpasc.ac.in | Phone : +91-422-2369100

BoS

13th

MINUTES OF THE THIRTEENTH BOARD OF STUDIES MEETING

Faculty: Computer Science

Board: Information Technology

The Meeting of Board of Studies (BoS) was held as given below:

Name of the Body	Board of Studies (BoS)
Department	Information Technology
Meeting No.	13
Date and Time	30.07.2022 @ 10.00 a.m.
Venue	AV Room
Members Attended	The details are given in the ANNEXURE -I

AGENDA

01	Discussion on UG Curriculum for AY 2022-23 and onwards adopting R4 guidelines
02	Discussion on syllabi for Part III – Core Courses for first semester UG -2022-23Batch
03	Discussion on syllabus for Part III – Inter Disciplinary Course (IDC) offered by other departments
04	Discussion on syllabus for Part III- Inter disciplinary Course (IDC) offered to other departments
05	Discussion on Part I (Tamil/Hindi/French/Malayalam) offered by Language department for 2022-23 Batch
06	Discussion on Part II (English) offered by English department for 2022-23 Batch
07	Discussion on Part IV (AECC) Environmental Studies for 2022-23 Batch
08	Discussion on credits for Part V Extension Activity for 2022-23 Batch
09	Discussion on Value Added Certificate Courses (VACC)
10	Any other matters





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MINUTES OF THE THIRTEENTH BOARD OF STUDIES MEETING

Faculty: Computer Science

Board: Information Technology

The Chairman of BoS welcomed all the Panel members for the meeting. The items listed in the agenda were taken for discussion.

The following are the minutes of the meeting:

Item -01	Discussion on UG Curriculum for AY 2022-23 and onwards adopting R4 guidelines
Discussion	Under regulation R4, common syllabus has been designed for the mandatory core theory courses recommended by TANSCH (for all UG programmes related to computer studies). The unified syllabus framed by designated departments were approved by their respective BoS. The UG Curriculum for AY 2022-23 was presented for discussion.
Resolution	The Board unanimously approved the curriculum.
Item-02	Discussion on syllabi for Part III – Core Courses for first semester UG -2022-23 Batch
Discussion	224AI1A1CA : Problem Solving and Programming in C <ul style="list-style-type: none">The unified syllabus approved by Board of Studies in Artificial Intelligence and Machine Learning was placed for endorsement 224IT1A1CA : Digital Computer Fundamentals (New Course) <ul style="list-style-type: none">Dr. Vadivel suggested to introduce the concepts of micro controller in order to understand automated control solutions in Unit VDr. Pradeep kumar suggested to include the latest edition of text book. Microprocessor and Microcontrollers by S.K. Mandal. The Fifteenth edition (2018) was included 224IT1A1CP: Programming in C <ul style="list-style-type: none">Dr. Vadivel suggested to include program on Dynamic memory management.
Resolution	The Board approved the syllabus.
Item -03	Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered by Department of Mathematics
Discussion	222MT1A1IE - Numerical Methods and Statistics <ul style="list-style-type: none">Syllabus approved by the Mathematics BoS
Resolution	The Board approved the syllabus.
Item-04	Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered to Department of Clinical Laboratory Technology
Discussion	224IT1A1IA/Basics of Information Technology - I B.Sc. (CLT) <ul style="list-style-type: none">Mr. Senthil Kumar suggested to include Database concepts in Unit III and E-Healthcare in Unit V for better understanding of healthcare solutions.
Resolution	The Board unanimously approved the revised syllabus.

Cont...





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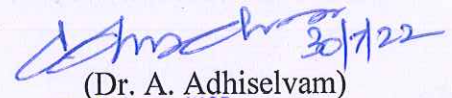
BoS

13th

Item -05	Discussion on Part I (Tamil/Hindi/French/Malayalam) offered by Language department for 2022-23 Batch
Discussion	221TL1A1TA - Part I:Tamil-I: Ikkala Illakiyam/ 221TL1A1HA - Hindi-I: Modern Literature /221TL1A1FA - French-I: Grammar, Translation and Civilization / 221TL1A1MA - Malayalam - I : Modern Literature respectively <ul style="list-style-type: none">The unified syllabus approved by the Board of Studies in Languages were placed for endorsement
Resolution	The Board approved the same.
Item -06	Discussion on Part II (English) offered by department of English for 2022-23 Batch
Discussion	221EL1A1EA : Part II: Professional English I <ul style="list-style-type: none">The unified syllabus approved by the Board of Studies in English was placed for endorsement
Resolution	The Board unanimously approved the syllabus.
Item -07	Discussion on Part IV (AECC) Environmental Studies for 2022-23 Batch
Discussion	223MB1A1AA: Environmental Studies <ul style="list-style-type: none">The unified syllabus approved by the Board of Studies in Microbiology was placed for endorsement
Resolution	The Board approved the same.
Item -08	Discussion on credits for Part V Extension Activity for 2022-23 Batch
Discussion	<ul style="list-style-type: none">One credit to be awarded for participation in YRC/RCC/NSS/ RRC/Yoga/Sports/Clubs
Resolution	The Board members accepted the same.
Item-09	Discussion on Value Added Certificate Courses(VACC)
Discussion	<ul style="list-style-type: none">The course titled Statistical Analysis using R to be offered by internal faculty for 2021-22 batch was discussed
Resolution	The Board approved the same.
Item-10	Any other matters
Discussion	<ul style="list-style-type: none">The board members discussed and recommended the Panel of Examiners
Resolution	The Board approved the same.

The Chairman of Board of Studies (BoS) thanked all the members for their active participation and providing their valuable suggestions.

Date: 30.07.2022


(Dr. A. Adhiselvam)

BoS Chairman/HOD
Department of Information Technology Page | 3
Dr. N.G.P. Arts And Science College
Coimbatore - 641 048





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BoS

13th

Syllabus Revision

Faculty : Computer Science

Board : Information Technology

Semester: I

Course Code / Name: 224AIIA1CA / Problem Solving and Programming in C

Unit	Existing	Changes
I	Programming Development Methodologies – Programming Style – Stepwise Refinement and Modularity – Problem Solving Techniques – Algorithm –Flowchart – Pseudocode – Sequence and Selection – Iteration and Recursion –Recursion Versus Iteration – Overview of Compilers and Interpreters – Structure of a C program – Programming Rules – Executing the Program	Introduction: Types of Programming Languages – High level Languages – Assembly Languages – Machine Level Languages – System Software – Operating Systems – Compiler – Linker and Interpreter. Symbols used in Flow Charts– Structured Programming - Sequence – Selection – Repetition – Modular Programming
II	Introduction – C Character Set – Tokens – Keywords and Identifiers – Constants – Variables – DataTypes – Declaring Variables – Declaration of Storage Class – Defining Symbolic constant. Operator and Expressions: Arithmetic operators - Relational Operators - Logical Operators – Assignment Operators – Increment and Decrement Operators - Conditional Operators – Bitwise Operators – Special Operators – Precedence of Arithmetic Operators – Type conversion in Expressions. Managing Input and Output Operations: Reading a Character – Writing a Character – Formatted Input and Output	Storage classes- Simple programs for logic building
III	Decision Making and Branching: Introduction – Simple if statement – if..else statement - Nesting of if..else statements – Else if Ladder – Switch statement – goto statement. Decision Making and Looping: while statement – do statement – for statement – jumps in loops. Arrays: One Dimensional Arrays – Two Dimensional Arrays. Character arrays and strings: Declaring and Initializing String Variables – Reading Strings from Terminal – Writing Strings to Screen – String-handling Functions.	Pre-processor Directives: Macro substitution – File inclusion – Compiler control directives. Dynamic Arrays.
IV	User-defined Functions: Needs for User-defined Functions – Elements of User- Defined Functions – Definition of Functions – Return Values and their Types – Function Calls – Function Declaration – Category of Functions. Pointers: Understanding Pointers – Accessing the Address of a Variable – Initialization of Pointer Variables – Accessing a Variable through its Pointer.	Strings: Declaring and Initializing the string variables – String handling functions.
V	Structures and Unions: Defining a Structure – Declaring Structure Variables – Accessing Structure Members – Unions – Bit Fields. File Management: Defining and- Opening a File – Closing a File – Input / Output Operation on Files.	Dynamic memory allocation

PERCENTAGE OF SYLLABUS REVISED :21 %

COURSE FOCUS ON:

- Skill Development
- Entrepreneurial Development
- Employability
- Innovation
- Intellectual Property Rights (IPR)





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Syllabus Revision

Faculty : Computer Science

Board : Information Technology

Course Code / Name: 224IT1A1CA/Digital Computer Fundamentals

Semester: I

PERCENTAGE OF SYLLABUS REVISED: 100 %

COURSE FOCUS ON:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Skill Development | <input type="checkbox"/> Entrepreneurial Development |
| <input type="checkbox"/> Employability | <input type="checkbox"/> Innovation |
| <input type="checkbox"/> Intellectual Property Rights (IPR) | |





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Syllabus Revision

Faculty : Computer Science

Board : Information Technology

Semester: I

Course Code / Name: 224IT1A1CP/ C Programming

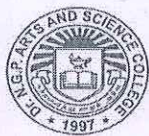
Prg. No	Existing	Changes
1	Program to implement operators	
2	Program to implement branching Conditions	
3	Program to demonstrate do and while loop	
4	Program to demonstrate for loop	
5	Program to sort using arrays	
6	Program to implement Matrix Addition and Multiplication	
7	Program to demonstrate string command with arrays	
8	Program to demonstrate string commands with pointers	Demonstrate handling of preprocessor directives
9	Program to implement recursive function	Implement Union
10	Program to use structure and array of structures	
11	Program to use file manipulation commands	
12	Program to use command line argument	Implement Memory Management

PERCENTAGE OF SYLLABUS REVISED: 33%

COURSE FOCUS ON:

- Skill Development Entrepreneurial Development
 Employability Innovation
 Intellectual Property Rights (IPR)





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13th

Syllabus Revision

Faculty: Computer Science

Board : Information Technology

Course Code / Name: 224IT1A1IA/Basics of Information Technology

Semester: I

Unit	Existing	Changes
I	Introduction: Computers - Characteristics - Classification - Micro, Mini, Mainframes and super computer. ALU -history of computer - Generation of computer hardware, software, human ware	Types of data - Model of a computer - Data Processing using computer -Data Storage.
II	Main Memory: ROM – RAM – EPROM – EPROM - FLASH Memory –Auxiliary memory - magnetic tape. Hard disk - floppy disk - CD-ROM	Processing and displaying Textual data: Introduction - Word Processor - Desktop Publishing - Page description language - Markup languages. Multimedia Data: Introduction - Graphic Processing - Audio Signal Processing.
III	I/O Devices: Input Devices – Key board – Mouse – Track ball – Joystick – Scanner – MICR – OCR – OMR – Bar code reader – Light pen. Output Devices – VCD – Classification and Characteristics of Monitor – Printers – Plotters - Sound card - Speaker	Introduction - Data Organization: Introduction - Organizing a database-Structure of a database -Database Management System -Example of Database design.
IV	Introduction to computer software -operating system - Classification and function of operating system, Programming language - Machine language – Assembly Language-High level language. Types of High-level language- Compiler - Interpreters.	Introduction - LAN - Applications of LAN - WAN- Facilities provided by Browsers - Cloud computing.
V	Internet: Internet – basics, World Wide Web, web pages – web browser, searching the web – Internet Access. Electronic Mail: Introduction – Electric mail – basics – Advantage of creating mail ID, E-commerce - Introduction and application. Interfacing of Laboratory equipment's-Laboratory Information System (LIS), Hospital Information System (HIS), Matching LIS to HIS, Merits of LIS, unidirectional and bidirectional interfacing.	Project planning – Data management and basic LIMS: functional requirements and features - Data management and advanced LIMS: functional requirements and features. Introduction to E-Healthcare-Quantitative Techniques for decision support.

PERCENTAGE OF SYLLABUS REVISED: 47%

COURSE FOCUS ON:

- Skill Development Entrepreneurial Development
 Employability Innovation
 Intellectual Property Rights (IPR)





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Syllabus Revision

Faculty: Computer Science

Board: Information Technology

Course Code/ Name: 221TL1A1TA / PART - I - TAMIL - I: IKKALA ILAKKIYAM

Semester: I

Unit	Existing	Changes
I	<ol style="list-style-type: none"> உயிர்-வெற்ற-தமிழர்-பாட்டு - பாரதியார் படி - பாரதிதாசன் பொருள்-புறப்பட்டு - தமிழ்-சூளி தமிழக் கொலை புரியாதீர் - புலவர் குழந்தை திரைத்தமிழ்: அ)சும்மா கிடந்த நிலத்தை - எனத் தொடங்கும் பாடல் - பட்டுக்கோட்டை கல்யாண சுந்தரனார். ஆ) சமரசம் உலாவும் இடமுமே - எனத் தொடங்கும் பாடல் - மருதகாசி. இ) உன்னை அறிந்தால் - எனத் தொடங்கும் பாடல் - கண்ணதாசன். 	<p>இலக்கிய வரலாறு - மறுமலர்ச்சி கவிஞர்களின் தமிழ்ப்பணிகள்</p> <p>பாரதிதேசம் - பாரதியார்</p> <p>தமிழரின் பெருமை - நாமக்கல் கவிஞர் திரைத் தமிழ் :</p> <p>விஞ்ஞானத்த வளர்க்கப் போறண்டி - உடுமுலை நரசராயணகவி</p>
II	<ol style="list-style-type: none"> கடமையைச் செய் - மீரா அம்மாவின-பொய்கள் - ஞானசுந்தன் செருப்புடன்-ஒருபேட்டி - மு.மேத்தா சிங்கனாள்-தூங்கின்-மரணம் - சிற்பி உட்கோள்-2004 - முத்தமிழ்-விரும்பி கரிக்கிறது தாய்ப்பால் - ஆசூர் தமிழ்நாடன் ஐந்தாம் வகுப்பு 'அ' பிரிவு - நா. முத்துக்குமார் ஹைகூ. கவிதைகள் - 15 கவிதைகள் 	<p>இலக்கிய வரலாறு - புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும்</p> <p>ஒப்பிலாத சமுதாயம் - அப்துல் ஈ குமார்</p> <p>கன்னியாடம் - மு.மேத்தா</p> <p>மலைமலர் எக் காற்று - சிற்பி</p>
III	<ol style="list-style-type: none"> ஒருசுதையும்-கொஞ்சம்-கண்ணிப்பாறும் - தாமரை நீரில் அலையும் முகம் - அ. வெண்ணிலா தொட்டிச்-செடி - இளம்பிறை ஏறிந்த வித்தியாசங்கள் - மல்லிகா 	<p>தொலைந்து போனேன் - தாமரை</p> <p>தற்காத்தல் - பொன்னணி வைரமுத்து</p> <p>புதைபுண்ட வாய்க்கை - சுசந்தி சுப்பிரமணியன்</p>
IV	<ol style="list-style-type: none"> வேப்பமரம் - ந-பிச்சமுர்த்தி அகல்மை - புதுமைப்பித்தன் ஒருபிடி-சோறு - ஜெயகாந்தன் காய்ச்சமரம் - கி.ராஜநாராயணன் நிர்வாண - சாசா குதிரை-மசால்-தாந்தி - க.வேணுகோபால் 	<p>இலக்கிய வரலாறு - சிறுகதையின் தோற்றமும் வளர்ச்சியும்</p> <p>கனகாம்பரம் - கு.பாசுல்கோபாலன்</p> <p>ஆற்றங்கரைப் பிள்ளையார் - புதுமைப்பித்தன்</p> <p>பொம்மை - ஜெயகாந்தன்</p> <p>காட்டில் ஒரு மான் - அம்பை</p> <p>வேட்டை - சூர்யகாந்தன்</p>
V	<p>அ. இலக்கியவரலாறு</p> <ol style="list-style-type: none"> மறுமலர்ச்சி கவிஞர்களின் தமிழ்ப்பணிகள் புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும் சிறுகதையின் தோற்றமும் வளர்ச்சியும் <p>ஆ.இலக்கணம்:1.வல்லினம் மிகும், மிகா இடங்கள் (ஒற்றுப்பிழை நீக்கி எழுதுதல்) 2. ர,ற,ல, மு, ள,ள, ந,ன வேறுபாடு (ஒலிப்பு நெறி, சொற்பொருள் வேறுபாடு அறிதல்)</p> <p>இ. படைப்பாக்கப் பயிற்சி</p> <ol style="list-style-type: none"> கவிதை, சிறுகதை எழுதுதல் 	<p>இலக்கிய வரலாற்றுப் பகுதி அந்தந்த அலகுகளுக்குத் தகுந்தார் போல் மாற்றி அமைக்கப்பட்டுள்ளது.</p>

PERCENTAGE OF SYLLABUS REVISED:

44 %

COURSE FOCUS ON:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Skill Development | <input checked="" type="checkbox"/> Entrepreneurial Development |
| <input checked="" type="checkbox"/> Employability | <input checked="" type="checkbox"/> Innovation |
| <input type="checkbox"/> Intellectual Property Right (IPR) | |





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BoS

13th

Syllabus Revision

Faculty: Computer Science

Board: Information Technology

Course Code/ Name: 221TL1A1HA/ PART - I - HINDI - I : MODERN LITERATURE Semester : I

Unit	Existing	Changes
I	गद्य - नूतन गद्य संग्रह (जय प्रकाश) पाठ 1- रजिया पाठ 2- मक्रील पाठ 3- बहता पानी निर्मला पाठ 4- राष्ट्रपिता महात्मा गाँधी	-
II	कहानी कुंज- डॉ वी.पी. 'अमिताभ' (पाठ 1-4)	-
III	व्याकरण : शब्द विचार (संज्ञा, सर्वनाम, कर्मक, विशेषण)	व्याकरण : शब्द विचार (संज्ञा, सर्वनाम, विशेषण)
IV	अनुच्छेद लेखन	-
V	अनुवाद अभ्यास-III (केवल अंग्रेजी से हिन्दी में) (पाठ 1 to 10)	-

PERCENTAGE OF SYLLABUS REVISED: 25 %

COURSE FOCUS ON:

<input checked="" type="checkbox"/> Skill Development	<input checked="" type="checkbox"/> Entrepreneurial Development
<input checked="" type="checkbox"/> Employability	<input checked="" type="checkbox"/> Innovation
<input type="checkbox"/> Intellectual Property Right (IPR)	





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 Web : www.drnpgpsc.ac.in | Email : info@drnpgpsc.ac.in | Phone : +91-422-2369100

BoS

13th

Syllabus Revision

Faculty: Computer Science

Board: Information Technology

Course Code/ Name: 22ITL1AIFA / PART – I FRENCH – I: Grammar, Translation and Civilization

Semester : I

Unit	Existing			Changes		
I	Objectifs de Communication	Tâche	Activités de réception et de production orale			
	<ul style="list-style-type: none"> • Saluer • Entrer en contact avec quelqu'un. • Se présenter. • S'excuser 	En cours de cuisine, premiers contacts avec les membres d'un groupe	<ul style="list-style-type: none"> • Comprendre des personnes qui se saluent. • Échanger pour entrer en contact, se présenter, saluer, s'excuser. • Communiquer avec tu ou vous. • Comprendre les consignes de classe • Épeler son nom et son prénom. Computer jusqu'à 10. 			
II	Objectifs de Communication	Tâche	Activités de réception et de production orale			
	<ul style="list-style-type: none"> • Demander de se présenter. • Présenter quelqu'un. 	Dans la classe de français, se présenter et remplir une fiche pour le professeur.	<ul style="list-style-type: none"> • Comprendre les informations essentielles dans un échange en milieu professionnel. • Échanger pour se présenter et présenter quelqu'un. 			
III	Objectifs de Communication	Tâche	Activités de réception et de production orale			
	<ul style="list-style-type: none"> • Exprimer ses goûts. 	Dans un café, participer à une soirée de rencontres rapides et remplir de tâches d'appréciation.	<ul style="list-style-type: none"> • Dans une soirée de rencontres rapid comprendre des personnes qui échangent sur elles et sur leurs goûts • Comprendre une personne qui parler des goûts de quelqu'un d'autre. 			
IV	Objectifs de Communication	Tâche	Activités de réception et de production orale	Demander à quelqu'un de faire quelque chose. Demander poliment. Parler d'actions passées. Organiser un programme d'activités pour accueillir une personne importante. Comprendre une personne demande un service à quelqu'un. Demander à quelqu'un de faire quelque chose. Imaginer et raconter au passé à partir de situations dessinées.		
	<ul style="list-style-type: none"> • Présenter quelqu'un 	Dans un café, participer à une soirée de rencontres rapides et remplir de tâches d'appréciation	<ul style="list-style-type: none"> • Exprimer ses goûts. • Comprendre une demande laissée sur un répondeur téléphonique. • Parler de ses projets de week-end. 			
Autoévaluation du module I Page 40 – Préparation au DELF A1 page 42				Tu veux bien? Page 46		
V	Demander à quelqu'un de faire quelque chose. Demander poliment. Parler d'actions passées.	Organiser un programme d'activités pour accueillir une personne importante.	Comprendre une personne demande un service à quelqu'un. Demander à quelqu'un de faire quelque chose. Imaginer et raconter au passé à partir de situations dessinées.	Make in Own Sentences		
	Tu veux bien? Page 46					

PERCENTAGE OF SYLLABUS REVISED: 25%

COURSE FOCUS ON:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Skill Development | <input checked="" type="checkbox"/> Entrepreneurial Development |
| <input checked="" type="checkbox"/> Employability | <input checked="" type="checkbox"/> Innovation |
| <input type="checkbox"/> Intellectual Property Right (IPR) | |





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13th

Syllabus Revision

Faculty: Computer Science

Board: Information Technology

Course Code/Name: 221TL1A1MA / PART - I - MALAYALAM - I : MODERN LITERATURE Semester : I

Unit	Existing	Changes
I	Novel : Alahayude penmakkaal	Novel : Pathummayude Adu
II	Novel : Alahayude penmakkaal	Novel : Pathummayude Adu
III	Short Story : Nalinakanthi	-
IV	Short Story : Nalinakanthi	-
V	Composition & Translation	Expansion of ideas, General Essay and Translation

PERCENTAGE OF SYLLABUS REVISED: 50%

COURSE FOCUS ON:

<input checked="" type="checkbox"/> Skill Development	<input checked="" type="checkbox"/> Entrepreneurial Development
<input checked="" type="checkbox"/> Employability	<input checked="" type="checkbox"/> Innovation
<input type="checkbox"/> Intellectual Property Right (IPR)	





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Syllabus Revision

Faculty: Computer Science

Board: Information Technology

Course Code/ Name: 221EL1A1EA- Core Course: Professional English I Semester: I

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUS ON:

<input checked="" type="checkbox"/>	Skill Development	<input checked="" type="checkbox"/>	Entrepreneurial Development
<input checked="" type="checkbox"/>	Employability	<input type="checkbox"/>	Innovation
<input type="checkbox"/>	Intellectual Property Rights (IPR)		





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13th

Syllabus Revision

Faculty: Computer Science

Board: Information Technology

Semester: I

Course Code/ Name: 222MT1A1IE / NUMERICAL METHODS AND STATISTICS

Unit	Existing	Changes
I	Introduction – Gauss Elimination Method – Gauss Jordan Method – Iterative Methods - Jacobi Method of Iteration – Gauss Seidel Iteration Method	Introduction to Solution of Algebraic and Transcendental Equations- Newton-Raphson method.
II	Numerical Differentiation - Derivatives using Newton's forward difference formula - Derivatives using Newton's Backward difference formula - Numerical Integration - Trapezoidal Rule - Simpson's 1/3 rd rule - Simpson's 3/8 th rule	Introduction to Interpolation - Finite difference - Newton's formula for forward and backward interpolation – Interpolation with unevenly spaced points: Lagrange's interpolation Numerical solution to ordinary differential equation: Second order Runge-kutta method.
III	Function of an Average – Characteristics of Typical Average - Limitations - Properties - Mean - Calculation of Mean - Merits of - Mean - Demerits of Mean - Median – Calculation of Median - Merits of Median - Demerits of Median - Mode - Calculation of Mode - Merits of Mode - Demerits of Mode - Range - Quartile Deviation – Standard Deviation	pooled mean - Geometric Mean - Harmonic Mean. Mean deviation - Variance .
IV	Types of Correlation – Scatter diagram Method - Coefficient of Correlation - Karl Pearson's Coefficient of Correlation - Merits and Demerits of Correlation – Rank Correlation - Regression - Uses - Difference between Correlation and Regression - Method of Studying Regression – Regression Equations - Regression equation of Y on X - Regression equation of X on Y	Correlation in grouped bivariate data
V	Testing of Hypothesis - Standard Error - Test of Significance for Attributes - Test for Proportion of Success - Test for Difference in Proportions - Test of Significance for Large Samples - The Standard error of mean - Testing the difference between means of Two Samples - Test of Significance for Small Samples - Students' t- Distribution - Chi Square Test - Characteristics of Chi Square Test - Degree of Freedom - Chi Square Test of goodness of fit - Chi Square as a test of independence	test in one way classification - Contingency table - Test of independence of factors - Yate's correction.

PERCENTAGE OF SYLLABUS REVISED: 25%

COURSE FOCUS ON:

- Skill Development Entrepreneurial Development
- Employability Innovation
- Intellectual Property Rights (IPR)





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BoS

13th

Syllabus Revision

Faculty: Computer Science

Board: Information Technology

Semester: I

Course Code/ Name: 223MB1A1AA – Environmental studies

Unit	Existing	Changes
I	Introduction to Environmental studies & Ecosystems: Multidisciplinary nature of environmental studies; components of environment – atmosphere, hydrosphere, lithosphere and biosphere. Scope and importance; Concept of sustainability and sustainable development. Ecosystem - Structure and function of ecosystem; Energy flow in an ecosystem: food chain, food web and ecological succession. Case studies of the following ecosystems: Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).	
II	Natural Resources: Renewable and Non-renewable Resources: Land Resources and land use change; Land degradation, soil erosion and desertification. Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Water: Use and overexploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state). Heating of earth and circulation of air, air mass formation and precipitation. Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.	
III	Biodiversity and Conservation: Levels of biological diversity: genetic, species and ecosystem diversity; Biogeography zones of India; Biodiversity patterns and global biodiversity hot spots. India as a mega-biodiversity nation; Endangered and endemic species of India. Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and informational value.	
IV	Environmental Pollution, Environmental Policies & Practices: Environmental pollution: types, causes, effects and controls; Air, water, soil, chemical and noise pollution. Nuclear hazards and human health risks. Solid waste management: Control measures of urban and industrial waste. Pollution case studies. Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture. Environment Laws: Environment Protection Act; Prevention & Control of Pollution Act – Air & Water. Wildlife Protection Act; Forest Conservation Act; International agreements; Montreal and Kyoto protocols and conservation on Biological Diversity (CBD). The Chemical Weapons Convention (CWC). Nature reserves, tribal population and rights, and human, wildlife conflicts in Indian context.	
V	Human Communities and the Environment & Field Work : Human population and growth: Impacts on environment, human health and welfare. Carbon foot print. Resettlement and rehabilitation of project affected persons; case studies. Disaster management: floods, earthquakes, cyclones and landslides. Environmental movements: Chipko, Silent valley, Bishnoi of Rajasthan. Environmental ethics: Role of Indian and other religions and cultures in environmental conservation. Environmental communication and public awareness case studies (e.g., CNG vehicles in Delhi). Visit to an area to document environmental assets; river/forest/flora/fauna, etc. Visit to a local polluted site – Urban/Rural/Industrial/Agricultural. Study of common plants, insects, birds and basic principles of identification. Study of simple ecosystems pond, river, Delhi Ridge, etc.	Population explosion - Family Welfare Programmes Role of Information Technology in Environment and human health. Role of the Colleges. Teachers and Students in village adoption towards clean, green and make in villages in various aspects.

PERCENTAGE OF SYLLABUS REVISED: 33 %

COURSE FOCUS ON:

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ATTENDANCE OF THE THIRTEENTH BOARD OF STUDIES MEETING

Faculty: Faculty of Computer Science

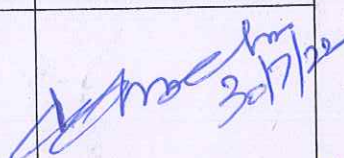
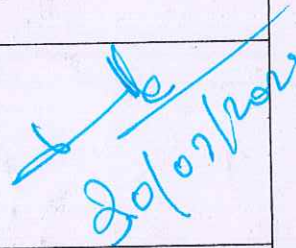
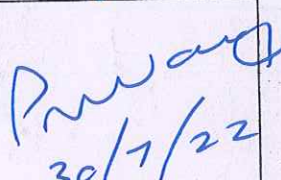
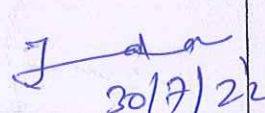
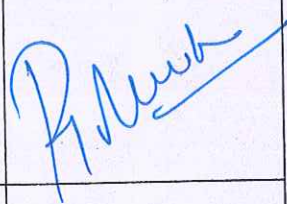

Board: Information Technology

VENUE : AV Room

DATE : 30.07.2022

TIME : 10.00 AM

The following members were present for the Board of Studies Meeting

S.NO.	NAME	DESIGNATION	SIGNATURE
1.	Dr.A.Adhiselvam Associate Professor & Head (i/c) Department of Information Technology Dr.N.G.P. Arts and Science College Coimbatore-641048	Chairman	 30/7/22
2.	Dr.R.Vadivel Assistant Professor Department of Information Technology Bharathiar University Coimbatore - 641 046.	Member (Subject Expert) (Nominated by Vice Chancellor)	 30/07/2022
3.	Dr. Prashant R. Nair Associate Professor Computer Science Engineering School of Engineering Amrita Vishwa Vidyapeetham Amritanagar, Ettimadai Coimbatore-641 112.	Member (Subject Expert) (Nominated by Academic Council)	 30/7/22
4.	Dr.T.S. PradeepKumar Professor School of Computing Science and Engineering Vellore Institute of Technology Vandalur Kelambakkam Road, Chennai 600 048.	Member (Subject Expert) (Nominated by Academic Council)	 30/7/22
5.	Mr.R. J. Senthil Kumar Founder Director – Sprout Solutions Private Limited 14, Light House Road R.S. Puram, Coimbatore -641 001.	Member (Industrial expert)	
6.	Mr.K.Karthik Project Lead KGISL Saravanampatti, Coimbatore-641 035	Alumni	





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S.NO.	NAME	DESIGNATION	SIGNATURE
7	Dr. N. Kuppuchamy Associate Professor & Head	Co-opted Member (Tamil)	 30/7/22
8	Dr. R. Vithya Prabha Professor & Head	Co-opted Member (English)	 30/7/22
9	Dr. R. Sowrirajan Assistant Professor & Head	Co-opted Member (Mathematics)	 30/7/22
10	Ms. V. Haritha III B.Sc. IT	Student Representative	 Haritha V
11	Dr. K. Santhi Professor	Member	 30/7/22
12	Dr. J. Savitha Professor	Member	 30/7/22
13	Dr. K. Thenmozhi Associate Professor	Member	 30/7/22
14	Mrs. P. Menaka Assistant Professor (SG)	Member	 30/7/22
15	Mr. B. M. Rajesh Assistant Professor	Member	 30/7/22
16	Mrs. B. Sivaranjani Assistant Professor	Member	 30/7/22
17	Mr. S. Dinesh Kumar Assistant Professor	Member	 30/7/22
18	Dr. S. Rekha Assistant Professor	Member	 30/7/22
19	Dr. N. Vanitha Assistant Professor	Member	 30/7/22
20	Dr. R. Praba Assistant Professor	Member	 30/07/22

Date : 30.07.2022

(Dr. A. Adhiselvam)
30/7/22

Head of the Department / BAS CHAIRMAN
Dept. of Information Technology
Dr. N.G.P. Arts & Science College (Autonomous)
Coimbatore - 641 048.

