



# 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 (3<sup>rd</sup> 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

13<sup>th</sup>

## MINUTES OF THE THIRTEENTH BOARD OF STUDIES MEETING

Faculty: Computer Science

Board: Computer Science

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

<b>Name of the Body</b>	<b>Board of Studies (BoS)</b>
<b>Department</b>	<b>Computer Science</b>
<b>Meeting No.</b>	<b>13</b>
<b>Date and Time</b>	<b>29.07.2022 @ 10.00 a.m.</b>
<b>Venue</b>	<b>Room No:402</b>
<b>Members Attended</b>	<b>The details are given in the ANNEXURE –I</b>

### AGENDA

1.	Discussion on UG Curriculum for AY 2022-23 and onwards adopting R4 guidelines.
2.	Discussion on syllabi for Part III - Core Courses for first semester UG - 2022-23 Batch
3.	Discussion on syllabus for Part III- Inter Disciplinary Course (IDC) offered by other departments
4.	Discussion on Part I (Tamil/Hindi/French/Malayalam) offered by Language department for 2022-23 Batch
5.	Discussion on Part II (English) offered by English Department for 2022-23 Batch
6.	Discussion on Part IV (AECC ) Environmental Studies for 2022-23 Batch
7.	Discussion on credits for Part V Extension Activity for 2022-23 Batch
8.	Discussion on PG Curriculum for AY 2022-23 and onwards adopting R4 guidelines
9.	Discussion on syllabi for first semester courses PG - 2022-23 Batch
10.	Discussion on Value Added Certificate Courses (VACC)
11.	Any Other Matters





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Faculty: Computer Science

Board: Computer Science

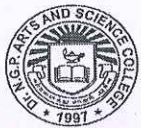
The Chairman of BoS welcomed all the Panel members for the meeting. The items listed in the agenda were taken for discussion.

The following are the minutes of the meeting:

<b>Item - 01</b>	<b>Discussion on UG curriculum for the 2022-23 and onwards adopting R4 guidelines</b>
<b>Discussion</b>	Under regulation R4, common syllabi have 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.
<b>Resolution</b>	The Board unanimously approved the curriculum.
<b>Item-02</b>	<b>Discussion on syllabi for Part III - Core Courses for first semester UG - 2022-23 Batch</b>
<b>Discussion</b>	<b>224AI1A1CA: Problem Solving and Programming in C</b> <ul style="list-style-type: none"><li>The unified syllabus approved by Board of Studies in Artificial Intelligence and Machine Learning was placed for endorsement.</li></ul> <b>224IT1A1CA : Digital Computer Fundamentals (New Course)</b> <ul style="list-style-type: none"><li>The unified syllabus approved by Board of Studies in Information Technology was placed for endorsement.</li></ul> <b>224CS1A1CP: Programming in C</b> <ul style="list-style-type: none"><li>Dr. Radhika suggested to incorporate Structures usage in an application.</li></ul>
<b>Resolution</b>	The Board approved the syllabus
<b>Item - 03</b>	<b>Discussion on syllabus for Part III - Inter Disciplinary Course (IDC) offered by Department of Mathematics</b>
<b>Discussion</b>	<b>222MT1A1IE - Numerical Methods and Statistics</b> <ul style="list-style-type: none"><li>Syllabus approved by the Mathematics BoS</li></ul>
<b>Resolution</b>	The Board approved the same
<b>Item -04</b>	<b>Discussion on Part I (Tamil/Hindi/French/Malayalam) offered by Language department for 2022-23 Batch</b>
<b>Discussion</b>	<b>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</b> <ul style="list-style-type: none"><li>The unified syllabus approved by the Board of Studies in Languages were placed for endorsement.</li></ul>

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<b>Resolution</b>	The Board unanimously approved the syllabus
<b>Item -05</b>	<b>Discussion on Part II (English) offered by department of English for 2022-23 Batch</b>
<b>Discussion</b>	<b>221EL1A1EA : Part II: Professional English I</b> <ul style="list-style-type: none"><li>The unified syllabus was approved by the Board of Studies in English was placed for endorsement.</li></ul>
<b>Resolution</b>	The Board approved the same.
<b>Item -06</b>	<b>Discussion on Part IV(AECC ) Environmental Studies for 2022-23 Batch</b>
<b>Discussion</b>	<b>223MB1A1AA: Environmental Studies</b> <ul style="list-style-type: none"><li>The unified syllabus was approved by the Board of Studies in Microbiology was placed for endorsement.</li></ul>
<b>Resolution</b>	The Board approved the syllabus
<b>Item-07</b>	<b>Discussion on credits for Part V Extension Activity for 2022-23 Batch</b>
<b>Discussion</b>	<ul style="list-style-type: none"><li>One credit to be awarded for participation in YRC/RCC//NSS/ RRC/Yoga/Sports/Clubs</li></ul>
<b>Resolution</b>	The Board members accepted the same
<b>Item-08</b>	<b>Discussion on PG Curriculum for AY 2022-23 and onwards adopting R4 guidelines</b>
<b>Discussion</b>	Under regulation R4, common syllabus has been designed for the mandatory core theory courses recommended by TANSCH (For PG programme related to computer studies). The design of unified syllabus for mandatory courses has been designed and approved the same in the BoS.
<b>Resolution</b>	The Board unanimously approved the curriculum.
<b>Item - 09</b>	<b>Discussion on syllabi for first semester courses PG - 2022-23 Batch</b>
<b>Discussion</b>	<b>224CS2A1CB-Advanced Java (Existing)</b> <ul style="list-style-type: none"><li>Dr. Chandra Blessy suggested to incorporate J2EE Connector Architecture in unit V to meet the industry needs.</li></ul> <b>224CS2A1CD-Software Project Management (Existing)</b> <ul style="list-style-type: none"><li>The course is moved from III semester to I semester to enable Students to undertake mini project in II semester.</li></ul>

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	<ul style="list-style-type: none"><li>• Dr. Chandra Blessy suggested to incorporate a case study in Approaches to Software Life Cycle in Unit V to give practical exposure.</li></ul> <p>The following new courses were introduced</p> <ul style="list-style-type: none"><li>• 224CS2A1CA - Advanced Data Structures(Core)</li><li>• 224CS2A1CC - Information Security (Core)</li><li>• 224CS2A1CP - Advanced Data Structures(Practical)</li><li>• 224CS2A1DA - Digital Image Processing(DSE)</li><li>• 224CS2A1DB - Advanced Data Mining (DSE)</li><li>• 224CS2A1DC - Computer Communication Networks (DSE)</li><li>• Dr. Ramya Chitra suggested to include Legislation and Policy, Current security threats in e-commerce in unit III of Information Security to impart knowledge on current threats.</li><li>• Dr. Radhika suggested to include Transform coding, Predictive coding and Wavelet coding in unit II of Digital Image Processing to reinforce image compression.</li></ul>
<b>Resolution</b>	After due deliberations, the board resolved to approve the syllabus
<b>Item-10</b>	<b>Discussion on Value Added Certificate Courses(VACC)</b>
<b>Discussion</b>	<ul style="list-style-type: none"><li>• The courses titled Internet of Things and PC Hardware and Networking to be offered by internal faculty for 2021-22 batch was discussed</li></ul>
<b>Resolution</b>	The Board approved the same
<b>Item -11</b>	<b>Any other matters</b>
<b>Discussion</b>	<ul style="list-style-type: none"><li>• The board members discussed and recommended the Panel of Examiners</li></ul>
<b>Resolution</b>	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: 29.07.2022

  
(Dr. B. Rosiline Jeetha)

BoS Chairman/HoD  
Department of Computer Science  
Dr. N. G. P. Arts and Science College  
Coimbatore – 641 048

Page | 4





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## Syllabus Revision

Faculty: Computer Science

Board: Computer Science

Semester: I

Course Code / Name: 224AI1A1CA / 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 : 24 %

COURSE FOCUS ON:

Skill Development

Entrepreneurial Development

Employability

Innovation

Intellectual Property Rights (IPR)



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### Syllabus Revision

Faculty : Computer Science

Board : Computer Science

Semester: I

Course Code / Name: 224CS1A1CP/ Programming in C

Prg. No	Existing	Changes
1	Program to sum, average, standard deviation for a given set of numbers	
2	Program to generate "n" prime numbers	
3	Program to generate Fibonacci series	
4	Program to print magic square	Implementation of Dynamic Arrays
5	Program to sort the given set of numbers in ascending order	
6	Program to check whether the given string is a palindrome or not using pointers	
7	Program to count the number of Vowels in the given sentence	
8	Program to find the factorial of a given number using recursive function.	
9	Program to print the student's Mark sheet	Implementation of Unions
10	Program to using pointers to add two matrices	
11	Program to receives two filenames as arguments and check whether the file contents are same or not. If same delete the second file.	Program to demonstrate Pre-processor Directives
12	Program to use command line argument	

PERCENTAGE OF SYLLABUS REVISED: 25%

COURSE FOCUS ON:

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





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## Syllabus Revision

Faculty : Computer Science

Board : Computer Science

Semester: I

Course Code / Name: 224IT1A1CA/ Digital Computer Fundamentals

PERCENTAGE OF SYLLABUS REVISED : 100%

### COURSE FOCUS ON:

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



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BoS

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## Syllabus Revision

Faculty: BAS Board: Mathematics 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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## Syllabus Revision

Faculty: Computer Science  
Semester: I

Board: Computer Science

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

Unit	Existing	Changes
I	1. உயிர்-பெற்ற-தமிழர்-பாட்டு - பாரதியார் 2. படி - பாரதிதாசன் 3. போராட்ட-புறப்பட்டோம் - தமிழ்-ஒளி 4. தமிழக் கொலை புரியாதீர் - புலவர் குழந்தை 5. 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.	இலக்கிய வரலாறு - மறுமலர்ச்சி கவிஞர்களின் தமிழ்ப்பணிகள் பாரததேசம் - பாரதியார் தமிழின் பெருமை - நாமக்கல் கவிஞர் திரைத் தமிழ் : விஞ்ஞானத்த வளர்க்கப் போறன்னடி - உடுமலை நாராயணகவி
II	1. கடமையைச் செய் - மீரா 2. அம்மாவின்-பொய்கள் - ஞானக்கந்தன் 3. செருப்புடன்-ஒரு பேட்டி - மு.மேத்தா 4. சிங்கவால்-ஞாங்கின்-மரசனம் - சிற்பி 5. கடல்கோள்-2004 - முத்தமிழ்-விரும்பி 6. கரிக்கிறது தாய்ப்பால் - ஆரூர் தமிழ்நாடன் 7. ஐந்தாம் வகுப்பு 'அ' பிரிவு - நா. முத்துக்குமார் 8. ஹைகூ. கவிதைகள் - 15 கவிதைகள்	இலக்கிய வரலாறு - புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும் ஒப்பிலாத சமுதாயம் - அப்துல் ரகுமான் கண்மீடாடம் - மு.மேத்தா மலையாளக் காற்று - சிற்பி
III	1. ஒரு கதையும்-கொஞ்சம்-கள்ளிப்பாஜும் - தாமரை 2. நீரில் அலையும் முகம் - அ. வெண்ணிலா 3. தொட்டிச்-செடி - இளம்பிறை 4. ஏளிந்த வித்தியாசங்கள் - மல்லிகா	தொலைந்து போனேன் - தாமரை தற்காத்தல் - பொன்மணி வைரமுத்து புதையுண்ட வாழ்க்கை - சுகந்தி சுப்ரமணியன்
IV	1. வேப்பமரம் - ந.பிச்சமூர்த்தி 2. அசல்மை - புதுமைப்பித்தன் 3. ஒருபிடி-சோறு - ஜெயகாந்தன் 4. காய்ச்சமரம் - கி.ராஜநாராயணன் 5. நிராசை - சாமா 6. குதிரை மசால்-நாத்தா - ச.வேணுகோபால்	இலக்கிய வரலாறு - சிறுகதையின் தோற்றமும் வளர்ச்சியும் கனகாம்பரம் - கு.ப.ராஜகோபால் ஆற்றங்கரைப் பிள்ளையார் - புதுமைப்பித்தன் பொம்மை - ஜெயகாந்தன் காட்டில் ஒரு மான் - அம்பை வேட்கை - குர்யகாந்தன்
V	அ. இலக்கியவரலாறு 1. மறுமலர்ச்சி கவிஞர்களின் தமிழ்ப்பணிகள் 2. புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும் 3. சிறுகதையின் தோற்றமும் வளர்ச்சியும் ஆ. இலக்கணம்: 1. வல்லினம் மிகும், மிகா இடங்கள் (ஒற்றுப்பிழை நீக்கி எழுதுதல்) 2. ர, ற, ல, ழ, ள, ண, ந, ன வேறுபாடு (ஒலிப்பு நெறி, சொற்பொருள் வேறுபாடு அறிதல்) இ. படைப்பாக்கப் பயிற்சி 1. கவிதை, சிறுகதை எழுதுதல்	இலக்கிய வரலாற்றுப் பகுதி அந்தந்த அலகுகளுக்குத் தகுந்தார் போல் மாற்றி அமைக்கப்பட்டுள்ளது.

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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## Syllabus Revision

Faculty: Computer Science

Semester : I

Board: Computer Science

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

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, कर्मसूचक, 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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## Syllabus Revision

Faculty: Computer Science

Board: Computer Science

Semester : I

Course Code/ Name: 221TL1A1FA / PART – I FRENCH – I: Grammar, Translation and Civilization.

Unit	Existing			Changes		
I	Objectifs de Communication	Tâche	Activités de réception et de production orale			
	<ul style="list-style-type: none"> <li>• Saluer</li> <li>• Enter en contact avec quelqu'un.</li> <li>• Se présenter.</li> <li>• S'excuser</li> </ul>	En cours de cuisine, premiers contacts avec les membres d'un groupe	<ul style="list-style-type: none"> <li>• Comprendre des personnes qui se saluent.</li> <li>• Échanger pour entrer en contact, se présenter, saluer, s'excuser.</li> <li>• Communiquer avec <i>tu</i> ou <i>vous</i>.</li> <li>• Comprendre les consignes de classe</li> <li>• Épeler son nom et son prénom.</li> <li>• Compter jusqu'à 10.</li> </ul>			
II	Objectifs de Communication	Tâche	Activités de réception et de production orale			
	<ul style="list-style-type: none"> <li>• Demander de se présenter.</li> <li>• Présenter quelqu'un.</li> </ul>	Dans la classe de français, se présenter et remplir une fiche pour le professeur.	<ul style="list-style-type: none"> <li>• Comprendre les informations essentielles dans un échange en milieu professionnel.</li> <li>• Échanger pour se présenter et présenter quelqu'un.</li> </ul>			
III	Objectifs de Communication	Tâche	Activités de réception et de production orale			
	<ul style="list-style-type: none"> <li>• Exprimer ses goûts.</li> </ul>	Dans un café, participer à une soirée de rencontres rapides et remplir de tâches d'appréciation.	<ul style="list-style-type: none"> <li>• Dans une soirée de rencontres rapid comprendre des personnes qui échantent sur elles et sur leurs goût</li> <li>• Comprendre une personne qui parler des goûts de quelqu'un d'autre.</li> </ul>			
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"> <li>• Présenter quelqu'un</li> </ul>	Dans un café, participer à une soirée de rencontres rapides et remplir de tâches d'appréciation	<ul style="list-style-type: none"> <li>• Exprimer ses goûts.</li> <li>• Comprendre une demande laissée sur un répondeur téléphonique.</li> <li>• Parler de ses projets de week-end.</li> </ul>			
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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### Syllabus Revision

Faculty: Computer Science

Board: Computer Science

Semester : I

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

Unit	Existing	Changes
I	Novel : Alahayude penmakkal	Novel : Pathummayude Adu
II	Novel : Alahayude penmakkal	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: Computer Science

Semester: I

Course Code/ Name: 221EL1A1EA- Core Course: Professional English 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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## Syllabus Revision

Faculty: Computer Science

Board: Computer Science

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, Bishnios 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:

<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 : Computer Science

Course Code / Name: 224CS2A1CA/ Advanced Data Structures

Semester: I

PERCENTAGE OF SYLLABUS REVISED: 100 %

### COURSE FOCUS ON:

Skill Development

Entrepreneurial Development

Employability

Innovation

Intellectual Property Rights (IPR)



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### Syllabus Revision

Faculty: Computer Science

Board: Computer Science

Course Code / Name: 224CS2A1CB/ Advanced Java

Semester: I

Unit	Existing	Changes
I	Java Fundamentals - Data types - operators- control statements and Objects	MVC Connections - Swing Packages
II	Methods and Classes - Inheritance - Packages - Interfaces - Exceptional Handling	The Javax Servlet Packages - Session Tracking
III	Collections-File and Streams-Networking - Event Handling - AWT: Windows, Controls, Layout Managers and Menus-Swing- JDBC	Java Server Pages
IV	Java Servlets: Design - Life Cycle - Cookies - Session tracking- Java server pages: Overview - Implicit objects - scripting- standard actions- directives	EJB Architecture and Design
V	Remote Method Invocation: Remote Interface - Naming class - RMI Security - Manager class - RMI Exceptions - Creating RMI client and Server Classes	Configuring JDBC - ODBC Bridge

PERCENTAGE OF SYLLABUS REVISED: 30 %

COURSE FOCUS ON:

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







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## Syllabus Revision

Faculty : Computer Science

Board : Computer Science

Semester: I

Course Code / Name: 224CSA1CQ/ Advanced Java

Unit	Existing	Changes
1	Programs using Java control statements	
2	Programs using simple applets	
3	Program to create applets incorporating features such as images, shapes, background and foreground color	
4	Create an application using simple GUI	
5	Program to Perform some applications using Java Bean	
6	Create an application using Swing	
7	Program to perform some operations using Threads	Demonstrate AWT Components with Event Handling.
8	Program to perform Session Tracking	
9	Java servlet program to implement sendredirect () Method (using Http servlet class).	
10	Servlet Program using HTTP Servlet	
11	Program to perform client server interface using RMI	Create a Web Application using JSP
12	JDBC to interact with database.	

**PERCENTAGE OF SYLLABUS REVISED: 20%**

### COURSE FOCUS ON:

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





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### Syllabus Revision

Faculty: Computer Science

Board: Computer Science

Course Code/ Name: 224CS2A1CC- Information Security

Semester: I

PERCENTAGE OF SYLLABUS REVISED: 100%

COURSE FOCUS ON:

Skill Development

Entrepreneurial Development

Employability

Innovation

Intellectual Property Rights (IPR)





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## Syllabus Revision

Faculty : Computer Science

Board : Computer Science

Course Code / Name: 224CS2A1CD / Software Project Management

Semester: I

Unit	Existing	Changes
I	Importance of SPM - Definition of Project - Software Project Vs Other Types of Project - Contract Management and Technical Project Management – Activities Covered by SPM - Plans, Methods and Methodologies - Some Ways of Categorizing Software Projects – Stakeholders - Setting Objectives - <del>The Business Case – Project</del> Success and Failure - Definition of Management - Management Control -Traditional Vs Modern Project Management Practices. An overview of Project Planning: Step 0 to Step 10. Project Evaluation: A Business Case - Project Portfolio Management - Evaluation of Individual Projects - Cost-benefit Evaluation Techniques - Risk Evaluation.	Information and Control in an organization
II	Choosing Methodologies and Technologies - Choice of Process Models – The Waterfall Model - The Spiral Model - Software Prototyping - Agile Methods -Extreme Programming (XP) - Selecting the Most Appropriate Process Model. Software Effort Estimation: The Basis for Software Estimating - Software Effort Estimation Techniques - Bottom-up Estimating - The Top-down Approach and Parametric Models - Estimating by Analogy - COCOMO Parametric Productivity Model. Resource Allocation: The Nature of Resources - Identifying Resource Requirements - Scheduling Resources - Creating Critical Paths – <del>Counting the Cost – Being Specific.</del>	The Rapid Application Development – The V – Process Model
III	The Objectives of Activity Planning - Project Schedules - Projects and Activities -Sequencing and Scheduling Activities - Network Planning Model - Formulating a Network Model – The Forward Pass – The Backward Pass - Identifying the Critical path - Activity Float – Shortening the Project Duration - Identifying Critical Activities - Activity-on-Arrow Networks. Risk Management: Definition of Risk - Categories of Risk - Risk Identification - Risk Assessment - Risk Planning – Risk Management - Evaluating Risks to the Schedule - Applying the PERT Technique -Critical Chain Concepts.	NIL
IV	Creating the Framework - Collecting the Data - Visualizing Progress – Cost Monitoring - Earned Value Analysis - Prioritizing Monitoring - Getting the Project Back to Target - Change Control. Managing Contracts: Types of Contract - Stages in Contract Placement - Typical Terms of a Contract – Contract Management -Acceptance. Managing People in Software Environments: Understanding Behavior- Organization Behavior: A Background - Selecting the Right Person for the Job -Instruction in the Best Methods - Motivation - The Oldham-Hackman Job Characteristics Model - Stress - Health and Safety - Some Ethical and Professional Concerns.	NIL
V	Working in Teams: Becoming a Team - Decision Making – Organizational Structures - Coordination Dependencies - Dispersed and Virtual Teams -Communication Genres - Communication Plans - Leadership. Software Quality: The Place of Software Quality in Project Planning - The Importance of Software Quality - Defining Software Quality - Product versus Process Quality Management- Quality Management Systems - Process Capability Models - Techniques to Help Enhance Software Quality – Testing - Quality Plans. <del>Case Study: Budgeting to Business Beginnings.</del>	Acquisition Planning – Procurement – Case Study: Approach to Software Life Cycle

PERCENTAGE OF SYLLABUS REVISED: 20 %

### COURSE FOCUS ON:

Skill Development

Entrepreneurial Development

Employability

Innovation

Intellectual Property Rights (IPR)



283

284



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### Syllabus Revision

Faculty: Computer Science

Board: Computer Science

Course Code/ Name: 224CS2A1DA- Digital Image Processing

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 checked="" type="checkbox"/> | Innovation                  |
| <input type="checkbox"/>            | Intellectual Property Rights (IPR) |                                     |                             |





# 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 (3<sup>rd</sup> Cycle - 3.64 CGPA)  
Dr. N.G.P. – Kalapatti Road, Coimbatore – 641 048, Tamil Nadu, India  
Web : www.dmgpasc.ac.in | Email : info@drngpasc.ac.in | Phone : +91-422-2369100

BoS

13<sup>th</sup>

## Syllabus Revision

Faculty: Computer Science

Board: Computer Science

Course Code/ Name: 224CS2A1DB- Advanced Data Mining

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 checked="" type="checkbox"/> Innovation                  |
| <input checked="" type="checkbox"/> Intellectual Property Rights (IPR) |   |





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BoS

13<sup>th</sup>

### Syllabus Revision

Faculty: Computer Science

Board: Computer Science

Course Code/ Name: 224CS2A1DC- Computer Communication and Networks

Semester: I

PERCENTAGE OF SYLLABUS REVISED: 100%

#### COURSE FOCUS ON:

Skill Development

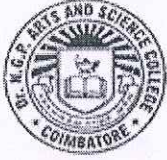
Entrepreneurial Development

Employability

Innovation

Intellectual Property Rights (IPR)





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## DEPARTMENT OF COMPUTER SCIENCE

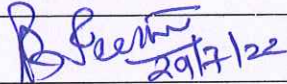

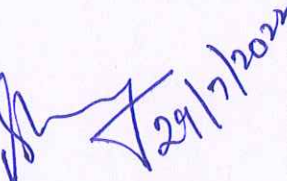
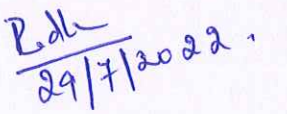
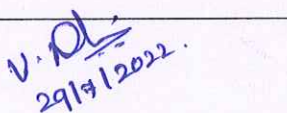
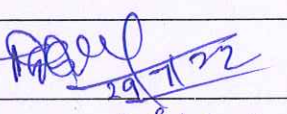
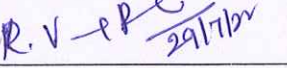
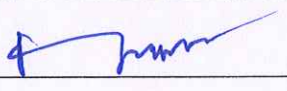
### THIRTEENTH BOARD OF STUDIES MEETING


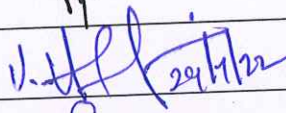
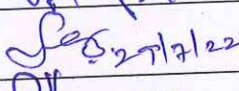


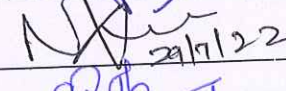
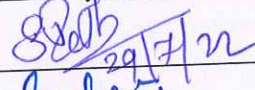
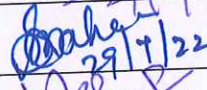
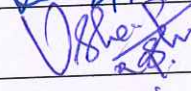
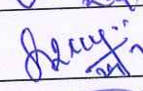
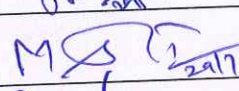
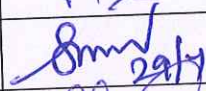
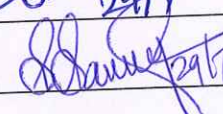
VENUE: A1 Block - Room No. 402

DATE: 29.07.2022

TIME: 10.00 A.M.

The following members were present for the Board of Studies Meeting:

S. No.	NAME	POSITION	SIGNATURE
1	Dr. B. Rosiline Jeetha, Professor and Head	Chairman	 29/7/22
2	Dr. D. Ramya Chitra Associate Professor Department of Computer Science Bharathiar University Coimbatore-641046.	Member (Subject Expert) (Nominated by Vice Chancellor)	 29/7/22
3	Dr. Chandra Blessie E Assistant Professor Department of Artificial Intelligence and Machine Learning Coimbatore Institute of Technology Coimbatore-641046	Member (Subject Expert) (Nominated by Academic Council)	 29/7/2022
4	Dr. Radhika N Professor School of Computing Amrita Vishwa Vidyapeetham Coimbatore-641112.	Member (Subject Expert) (Nominated by Academic Council)	 29/7/2022
5	Mr. Kousik Rajendran Co-Founder, ByWay Experiences, KCT Tech Park, Coimbatore	Member (Industrial Expert)	- ABSENT -
6	Ms. V. Divya Bharathi Transaction Risk Investigator Amazon, Bangalore	Alumni	 29/7/2022
7	Part I (Two Semester Language)	Co-Opted Member	 29/7/22
	Part II (Two Semester Language)		 R.V - P.E 29/7/22
	IDC		

8	Dr.V.Jaiganesh, Professor	Member	
9	Dr.V.Vinodhini, Professor	Member	
10	Dr. M. Savithri , Associate Professor	Member	
11	Dr. J. Ramkumar , Associate Professor	Member	
12	Mr. V.S. Jagadeeswaran , Asst. Professor(SG)	Member	
13	Mr. N. Kumar , Asst. Professor(SG)	Member	
15	Mrs. S. Revathi , Asst. Professor(SG)	Member	
14	Mrs. S. Maheshwari ,Asst. Professor(SG)	Member	
15	Mrs. P. Usha , Asst. Professor(SG)	Member	
16	Mrs. S. R. Kalaiselvi , Asst. Professor	Member	
17	Dr. M. Sangeetha , Asst. Professor	Member	
18	Mrs. V. Shobana , Asst. Professor	Member	
19	Mrs. S. Saranya , Asst. Professor	Member	

  
29/7/22



BoS Chairman/HoD  
Department of Computer Science  
Dr. N. G. P. Arts and Science College  
Coimbatore - 641 048