





DR.MGR JANAKI COLLEGE OF ARTS AND SCIENCE FOR WOMEN

DEPARTMENT OF COMPUTER SCIENCE



Dr. MGR-JANAKI COLLEGE OF ARTS & SCIENCE FOR WOMEN SATHYABAMA MGR MALIGAI 11 & 13, Durgabai Deshmukh Road, RA Puram, Chennai - 28

Affiliated to the University of Madras

An ISO 9001:2015 CERTIFIED INSTITUTION

B.SC.COMPUTERSCIENCE (WITH EFFECT FROM THE ACADEMIC YEAR 2023-24)

I PREAMBLE

Bachelor of Computer Science is a 3 - Year under Graduate Programme spread over six semesters. The course is designed to achieve high degree of technical skills in Problem solving and application development. The course develops requisite professional skills and problem solving abilities for pursuing successful career in software industry and forms the required basics for pursuing higher studies in Computer Science.

II Eligibility

A passing the higher secondary Examination (Academic Stream) conducted by the Government of Tamil Nadu with Mathematics as one of the subjects.

PO1 Scientific aptitude will be developed in Students Students will acquire basic Practical skills & Technical knowledge along with domain **PO2** knowledge of different subjects in the Computer Science & humanities stream. Students will become employable; Students will be eligible for career opportunities in **PO3** educationfield, Industry, or will be able to opt for entrepreneurship. **PO4** Students will possess basic subject knowledge required for higher studies, professional and applied courses. **PO5** Students will be aware of and able to develop solution-oriented approach towards various Social and Environmental issues. **PO6** Ability to acquire in-depth knowledge of several branches of Computer Science and aligned areas. This Programme helps learners in building a solid foundation for higher studies in Computer Science and applications. **PO7** The skills and knowledge gained leads to proficiency in analytical reasoning, which can be utilized in modeling and solving real-life problems. Utilize computer programming skills to solve theoretical and applied problems by critical **PO8** understanding, analysis and synthesis. **PO9** Ability to share ideas and insights while seeking and benefitting from knowledge and insight of others. Mould the students in to responsible citizens in a rapidly changing interdependent society. **PO10**

III ProgrammeObjectives





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IV Programme Specific Objectives

PSO1	Think in a critical and logical based manner
PSO2	Familiarize the students with suitable software tools of computer science and industrial
	applications to handle issues and solve problems in mathematics or statistics and real time
	application related sciences.
PSO3	Know when there is a need for information, to be able to identify, locate, evaluate, and
	effectively use that information for the issue or problem at hand.
PSO4	Understand, formulate, develop programming model with logical approaches to Address issues arising in social science, business and other contexts.
PSO5	Acquire good knowledge and understanding to solve specific the critical and applied
	problems in advance dare as of Computer science and Industrial statistics.
PSO6	Provide students/learners sufficient knowledge and skills enabling them to undertake
	further studies in Computer Science or Applications or Information Technology and its
	allied areas on multiple disciplines linked with ComputerScience.
PSO7	Equip with Computerscience technical ability, problem solving skills, creative talent and
	power of communication necessary for various forms of employment.
PSO8	Develop a range of generic skills helpful in employment, internships & societal activities.
PSO9	Get adequate exposure to global and local concerns that provides platform for further
	exploration into multi-dimensional aspects of computing sciences.
PSO10	The state of art technologies in conducting a Explain in a scientific and systematic way and
	arriving at a precise solution is ensured





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YEAR-ISEMESTER-I

Part	Subject	List of Courses		Hours
	Code			
Part-I		Language Paper-I	3	6
Part-II	100L1Z	English Paper-I	3	6
Part-III	125C1A	Core Course-I:Python Programming	5	4
	125C11	Core Course-II:Python Programming Practical	5	5
		Elective-II Generic/Discipline Specific(Anyone):	3	5
	125E1A	Mathematics I		
	125E1B	Statistics I		
	125E1C	Physics I		
Part-IV	125S1A	Skill Enhancement Course-I: Office Automation*	2	2
	100L1L	Basic Tamil-I(Other Language Students)*		
	100L1M	Advanced Tamil-I(Other Language Students)*		
	125B1A	Foundation CourseFC: Fundamentals of Computers	2	2
			23	30

*PART-IV:SEC-1/Basic Tamil/AdvancedTamil(Anyone)

- 1. Students who have studied Tamil upto XII STD and also have taken Tamil in Part I shall take SEC-I.
- 2. Students who have **not** studied Tamil upto XIISTD and have taken any Language other than Tamil in Part-I shall take **Basic Tamil** comprising minutes to complete of Two Courses(levelwillbeat6thStd.).
- **3**. Students who have studied Tamil upto XII STD and have taken any Language other thanTamil inPart-I shall take**Advanced Tamil** comprising of Two Courses.

Part	Subject	List of Courses	Credit	Hours
	Code			
Part-I		Language Paper-II	3	6
Part-II	100L2Z	English Paper-II	3	6
Part-III	125C2A	Core Course-III: Introduction to Computer Architecture And Microprocessor	5	4
	125C21 Core Course-IV: Introduction to Computer Architecture And Microprocessor Practical			
		Elective-II Generic /Discipline Specific (Any	3	5
	125E2A	one):Mathematics II/		
	125E2B	Statistics II/Physics		
	125E2C	П		
Part-IV	125S2A	Skill Enhancement Course-II: Quantitative aptitude	2	2
	100L2L	Basic Tamil-II(Other Language Students)*		
	100L2M	Advanced Tamil-II(Other Language Students)*		
	125S2B	Skill Enhancement Course-III: Problem solving Techniques	2	2
			23	30





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YEAR-II SEMESTER-III

Part	Subject	List of Courses	Credit	Hours
	Code			
Part-I		Language Paper-III	3	6
Part-II	200L3Z	English Paper-III	3	6
Part-III	225C3A	CoreCourse-V: Java Programming	5	4
	225C31	CoreCourse-VI: Java Programming Practical	5	5
		Elective-III Generic/Discipline Specific(Anyone):	3	5
	225E3A	Mathematics I/		
	225E3B	Statistics I/		
	225E3C	Physics I		
Part-IV	225S31	Skill Enhancement Course-IV:(Entrepreneurial Based):	1	1
		Web Page Design Practical		
	225S32	Skill Enhancement Course-V: Desktop publishing	2	2
		Practical		
		Environmental Science		1
			22	30

YEAR-II SEMESTER-IV

Part	SubjectC	ListofCourses		Hours	
	ode				
Part-I		LanguagePaper-IV	3	6	
Part-II	200L4Z	EnglishPaper-IV	3	6	
Part-III	225C4A	CoreCourse-VII:DataStructuresandAlgorithms	5	4	
	225C41	CoreCourse-VIII:DataStructuresandAlgorithms	5	4	
		Practical			
		Elective-IVGeneric/DisciplineSpecific(Anyone):	3	5	
	225E4A	MathematicsII/			
	225E4B	StatisticsII/			
	225E4C	PhysicsII			
Part-IV	225S4A	SkillEnhancementCourse-VII:EmotionalIntelligence	2	2	
	225S4B	SkillEnhancementCourse-VII:TechnicalWriting	2	2	
	225V4A	EnvironmentalScience	2	1	
			25	30	







YEAR-III SEMESTER-V

Part	Subject	List of Courses	Credit	Hours	
	Code				
Part-III	325C5A	Core-IX: Operating System	4	5	
	325C51	Core-X: Operating System Practical	4	5	
	325C5B	Core-XI: Relational Database Management System	4	5	
	325C52 Core-XII: Relational Database Management System Practical				
	325E5A Elective Course-V: Computer Network/				
	325E5B	B Mobile Ad-hoc work/Data Mining and Warehousing			
	325E5C				
	325E5D Elective Course-VI: Software Engineering /		3	4	
	325E5E	Software Testing /Digital			
	325E5F	Image Processing			
Part-IV	325V5A	Value Education	2	2	
	325V5B	Internship/Industrial Training(During summer vacationat The end of IV semester)	2		
			26	30	

YEAR-III SEMESTER-VI

Part	Subject	List of Courses	Credit	Hours	
	Code				
Part-III	325C6A	Core Paper-XIII: Programming in ASP.NET	4	6	
	325C61	Core Paper-XIV: Programming in ASP.NET Practical	4	5	
	325C6B	Core Paper-XV: Project with Vivavoce	4	5	
	325E6A	3	5		
	325E6BIntroduction To Data Science/Internet325E6Cof Things and its Applications				
	325E6D	Elective-VIII: Cloud Computing/		5	
	325E6E	Big Data Analytics/Block			
	325E6F Chain Technology				
Part-IV	325V6A	Professional Competency Skill Course: Advanced Excel	2	4	
	325V6B	Extension Activity	1		
			21	30	



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B.SC COMPUTERSCIENCE (WITH EFFECT FROM THEACADEMIC YEAR 2020-21)

I PREAMBLE

Bachelor of Computer Science is a 3 -Year Under Graduate Programme spread over six semesters. The course is designed to achieve high degree of technical skills in Problem solving and application development. The course develops requisite professional skills and problem solving abilities for pursuing a successful career in software industry and forms the required basics for pursuing higher studies in Computer Science.

II COURSE OBJECTIVES

- Acquisition of Knowledge and understanding of system, various sprogramming languages and tools required for effective computation based problem solving.
- Utilize emerging technological tools learn, adapt and successfully rite effective procedural coding meeting the needs of technical and societal challenges
- Attain sufficient knowledge related to computer domains, possesses technical, soft and hardskills and apply them effectively in team work
- Empower the students with competencies in creative thinking and problem solving, inter-personal communication and managerial skills.

III GRADUATE ATTRIBUTES

- Computational Knowledge
- Problem analysis &Solving
- Design &Development of Solutions
- Modern tool usage
- Communication skills
- Innovation & Entrepreneurship
- Societal & environmental concern

IV COURSE OUTCOMES

After Completion of the course, the students are expected to

- Understand the basic principles and concepts of Computer Science and integrate the knowledge gained in Computer Science domain with practical needs of the society and be an ethically and socially responsible Computer Science Professional
- Explore emerging technologies in diverse areas of Computer Science and inculcate skills for successful career, entrepreneurship and higher studies
- Apply the concepts of Computer and practices via emerging technologies and Software development tools



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COURSE STRUCTURE:

	I SEMESTER					
COURSE	COURSE NAME	Ins.Hrs	CDEDITS	MAX.MARKS		
CONTENT	COURSE NAME		CREDITS	Ext.	Int.	Total
PARTI	Tamil/Other languages –I	6	3	75	25	100
PARTII	BP2-ENG01-CommunicativeEnglish I	3	3	50	50	100
	BCE-CSC01-Problem Solving using Python@	6	4	75	25	100
PARTIII	BCE-CSC02-CorePractical-I-Problem Solving using Python Lab@	5	3	60	40	100
	BMA-CSA01-AlliedI:Mathematics-I@	6	5	75	25	100
	Basic Tamil/ Advanced Tamil/NMEI*	-	2	75	25	100
PARIIV	BP4-EPSC01-EnglishforPhysicalScienceI	4	4	50	50	100
	Total Credits		24			
	II SEMESTER					<u>.</u>
PARTI	Tamil/Other languages –II	6	3	75	25	100
PARTII	BP2-ENG02-Communicative English II	3	3	50	50	100
PARTIII	BCE-CSC03-Computer Organization@	6	4	75	25	100
	BCE-DSC04-CorePractical-II-Computer Organization Lab	5	3	60	40	100
	BMA-CSA02-AlliedII:MathematicsII@	6	5	75	25	100
	Basic Tamil/Advanced Tamil/NME-II*	_	2	75	25	100
PARTIV	BP4-EPSC02-EnglishforPhysicalScienceII	4	4	50	50	100
	Total Credits		23			
	III SEMESTER			1	1	<u> </u>
PARTI	Tamil/Other languages –III	6	3	75	25	100
PARTII	BP2-ENG03-LanguageThroughLiterature-I	6	3	50	50	100
	BCE-CSC05-JavaandDataStructures@	6	4	75	25	100
	BCE-CSC06-CorePractical-III-Data Structures using Java Lab@	3	3	60	40	100
	BPS-CSA01-AlliedIII-Physics-I(Theory)@	6	3	75	25	100
PARTIII	BPS-CSAP1-AlliedPhysics– I(Practical)	3	2 Examination Be held in I		ninatic ld in I	n will V Sem.
	(OR)					
	BST-CSA01-AlliedIII-StatisticsI@	9	5	75	25	100
	Soft Skill	-	3	50	50	100
PARTIV	Environmental Studies	-	Examination will be helding Semester IV			be
	Total Credits		21			



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	IV SEMESTER						
PARTI	Tamil/Other languages–IV		6	3	75	25	100
PARTII	BP2-ENG04-LanguageThroughLiterature-II	6	3	50	50	100	
	BCE-CSC07-WebTechnology@		6	4	75	25	100
	BCE-CSC08-CorePractical-IV-Web Technology Lab@		3	3 60		40	100
PARTIII	BPS-CSA02–Allied IV-Physics-II(Theory)@		6	3	75	25	100
	BPS-CSAP1-AlliedPhysics–I&II(Practical)		3	2	60	40	100
	(OR)						
	BST-CSA02-Allied IV-Statistics II@		9	5	75	25	100
	Soft Skill		-	3	50	50	100
PARIIV	Environmental Studies		-	2	75	25	100
	Total	Credits		23			
	V SEME	STER				•	
COURSE	COURSE NAME	Ins.Hrs	CREDITS	Ν	IAX.M	AX.MARKS	
CONTENT			CREDITS	Ext.]	nt.	Total
	BCE-CSC09-Computer Network@	6	4	75	25		100
	BCE-CSC10-Operating System@	6	5	75		25	
DADTIII	BCE-CSC11-Relational Database Management System@	6	4	75	25		100
IARIII	BCE-CSC12-CorePractical-V-Operating System Lab@	3	3	60 40		40	100
	BCE-CSC13-CorePractical-VI-PL/SQL Lab@	3	3	60	60 40		100
	Elective I-Choose anyone from the list	5	5	75		25	100
PARTIV	Value Education	2	2	75		25	100
	Total Credits		26	+			
	VISEME	STER			I		
	BCE-CSC14-Software Engineering@	6	4	75		25	100
	BCE-CSC15-Introduction to Data Science@	6	5	75		25	100
	BCE-DSC16-Introduction to Cloud Computing	6	4	75		25	100
PARTIII	BCE-DSC17-CorePractical-VII- CASE	3	2	(0)		40	100
	Tools and Testing Tools Lab		5	60		40	100
	Elective II-Choose anyone from the list	5	5	75		25	100
	BCE-CSC18-CorePractical-VIII-Mini Project@		5	60 40		40	100
PARTV	Extension Activities		1				
	Total Credits		27				
	Total credits(Core,Elective,SBS)		143				
			1				l

*NME: Choose Anyone From the Other Department



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	Elective I			
BCE-DSE1A	Artificial Intelligence and Expert System			
BCE-DSE1B	Graphics and Visualization			
BCE-DSE1C	Network Security			
	Elective II			
BCE-DSE2A	Mobile Computing			
BCE-CSE2B	IOT and its Applications@			
BCE-DSE2C	Block Chain Technology			

LEARNING OUTCOME:

Course Name	Course Code	Course Outcome	LINK
		SEMESTER – I	
		To Understand the principles of Python	https://egovernance.unom.ac.i
		and acquire skills in programming in	n/ugsyllabus/pdf/BCE-
		python	CSC01.pdf?823808158
		To develop the emerging applications of	
		relevant field using Python	
		Interpret the fundamental Python syntax	
		and semantics and be fluent in the use	
		of Python control flow statements.	
Problem Solving using		Able to develop simple turtle graphics	
Python	BCE-CSC01	programs in Python	
		Understand the numeric or real life	https://egovernance.unom.ac.i
		application problems and solve them.	<u>n/ugsyllabus/pdf/BCE-</u>
		Apply a solution clearly and accurately	CSC02.pdf?1630075696
		in a program using Python.	
Core Practical-I -		Apply the best features available in	
Problem Solving using		Python to solve the situational	
Python Lab	BCE-CSC02	problems.	
		Develop and execute simple Python	https://egovernance.unom.ac.i
		programs CO2: CO3: CO4: CO5:	n/ugsyllabus2324/pdf/125C1
		Write simple Python programs using	<u>A.pdf?727507138</u>
		conditionals and looping for solving	
		problems	
		Decompose a Python program into	
		functions	
		Represent compound data using Python	
		lists, tuples, dictionaries etc.	
		Read and write data from/to files in	
Python Programming	125C1A	Python programs	
Python Programming	125C11	To understand the problem solving	https://egovernance.unom.ac.i





Practical		approaches	n/ugsyllabus2324/pdf/125C11		
		To learn the basic programming	.pdf?1964823819		
		constructs in Python			
		To practice various computing strategies			
		for Python-based solutions to real world			
		problems			
		To use Python data structures - lists			
		tuples dictionaries			
		To do input/output with files in Python			
		SEMESTER – II	<u> </u>		
		Describe the major components of a	https://egovernance.upom.ac.i		
		computer system and state their	n/ugsyllabus/ndf/BCF-		
		function and purpose	CSC03 pdf?425647867		
		Describe the microstructure of a	<u>CSC05.pdf.+250+7007</u>		
		processor			
		Demonstrate the ability to program a			
		microprocessor in assembly language			
		Classify and describe the operation			
Computer Organization	BCE-CSC03	DMA and peripheral Interfaces			
	BCE DSC04	Implement the orithmetic operations in	https://egovernance.upom.ac.i		
Cana Drastia al II	DCE-DSC04	implement the antimetic operations in	n/ugsyllabus/pdf/BCE_		
Core Practical-II -		Luderstand the grap group in a logic of	DSC04 pdf?1954497225		
Lob		Onderstand the programming logic of	DSC04.pdf:1754477225		
Lab 8085 in various aspects					
		SEMESTER - III	1.44		
		Students will be able to develop Java	https://egovernance.unom.ac.1		
		Standalone applications and Applets.	<u>n/ugsynabus/pdi/BCE-</u>		
Java and Data		Choose the appropriate data structure	<u>CSC05.pd1?1192002297</u>		
Structures	BCE-CSC05	for modeling a given problem.			
		Write functions to implement linear and	https://egovernance.unom.ac.1		
		non-linear data structure operations.	<u>n/ugsyllabus/pdf/BCE-</u>		
Core Practical-III -		Suggest appropriate linear and non-	<u>CSC06.pdf?854073270</u>		
Data Structures using		linear data structure operations for			
Java Lab	BCE-CSC06	solving a given problem.			
SEMESTER - IV					
		Understand the general concepts of PHP	https://egovernance.unom.ac.i		
		scripting language for the development	<u>n/ugsyllabus/pdf/BCE-</u>		
		of Internet websites.	CSC07.pdf?1312678124		
		Understand the basic functions of			
		MySQL database program and XML			
		concepts			
		Learn the relationship between the			
		client side and the server side scripts.			
Web technology	BCE-CSC07	*			

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		On the completion of this laboratory	
		course the students ought to	
		Obtain knowledge and develop	
		application programs using Python.	
		Create dynamic Web applications such	https://egovernance.unom.ac.i
		as content management, user	n/ugsyllabus/pdf/BCE-
		registration, and ecommerce using PHP	CSC08.pdf?1549247339
		and to understand the ability to post and	
		publish a PHP website.	
Core Practical-IV -		Develop a MySQL database and	
Web Technology Lab	BCE-CSC08	establish connectivity using MySQL.	
		SEMESTER - V	
		Analyze different network models	https://egovernance.unom.ac.i
		Describe, analyze and compare a	<u>n/ugsyllabus/pdf/BCE-</u>
		number of data link, network and	CSC09.pdf?10890150
		transport laver	
		Analysing key networking protocols	
		and their hierarchical relationship in the	
Computer Network	BCE-CSC09	conceptual model like TCP/IP and OSI	
		Understand the structure and functions	https://egovernance.unom.ac.j
		of Operating System	n/ugsvllabus/pdf/BCE-
		Compare the performance of	CSC10.pdf?1347533989
		Scheduling Algorithms	*
		Analyze resource management	
Operating System	BCE-CSC10	techniques	
		Describe basic concepts of database	https://egovernance.unom.ac.i
		system	n/ugsyllabus/pdf/BCE-
		Design a Data model and Schemas in	CSC11.pdf?853796195
		RDBMS	_
		Competent in use of SQL	
Relational Database		Analyze functional dependencies for	
Management System	BCE-CSC11	designing robust Database	
		Understand the process management	https://egovernance.unom.ac.i
		policies and scheduling process by	n/ugsyllabus/pdf/BCE-
		CPU.	CSC12.pdf?1357559538
		Analyze the memory management and	
		its allocation policies.	
Core Practical-V -		To evaluate the requirement for process	
Operating System Lab	BCE-CSC12	synchronization.	
		Implement the DDL, DML Commands	https://egovernance.unom.ac.i
	BCE-CSC13	and Constraints	n/ugsyllabus/pdf/BCE-
		Create, Update and query on the	CSC13.pdf?2108690785
		database.	
Core Practical-VI -		Design and Implement simple project	
PL/SQL Lab		with Front End and Back End.	





Artificial Intelligence and Expert System Gain a working knowledge of the foundations of and modern applications in, artificial Intelligence heuristic search, knowledge representation and logic. https://egovernance.unom.ac.i rugesyllabus/pdf/BCE- DSE1A.pdf?12081028277 Artificial Intelligence and Expert System BCE-DSE1A Iogic. https://egovernance.unom.ac.i rugesyllabus/pdf/BCE- DSE1A.pdf?12081028277 Graphics and Visualization BCE-DSE1B Convert and basic geometrical primitives, transformations, Area filling and clipping. https://egovernance.unom.ac.i rugesyllabus/pdf/BCE- DSE1D.pdf?1240683474 Network Security BCE-DSE1B Compare various Cryptographic Techniques https://egovernance.unom.ac.i rugesyllabus/pdf/BCE- DSE1C.pdf?14002766318 Network Security BCE-DSE1C The students should be able to specify software requirements, design the software requirements, design the software requirements, design the software using tools https://egovernance.unom.ac.i rugesyllabus/pdf/BCE- CSC14.pdf?1171968384 Software Engineering BCE-CSC16 To describe what Data Science is, what Statistical Inference means, identify probability distributions, fit a model to data and use tools for basic analysis and Science https://egovernance.unom.ac.i rugesyllabus/pdf/BCE- CSC15.pdf?1481009195 Introduction to Cloud Computing BCE-DSC16 To describe the security aspects in cloud https://egovernance.unom.ac.i rugesyllabus/pdf/BCE- CSC15.pdf?1481009195 <td< th=""><th>ELECTIVE - I</th><th></th><th></th><th></th></td<>	ELECTIVE - I			
Artificial Intelligence and Expert System foundations of and modern applications in, artificial Intelligence heuristic search, knowledge representation and logic. DSE1A_pdf?2081028277 Artificial Intelligence and Expert System Know the principles of Display devices Understand various algorithms to scan, convert and basic geometrical primitives, transformations, Area filling and cipping. https://egovernance.unom.ac.i n/ugsvllabus/pdf/BCE: DSE1B_pdf?1240683474 Graphics and Visualization BCE-DSE1B Capture the significances of viewing and projections. https://egovernance.unom.ac.i n/ugsvllabus/pdf/BCE: DSE1D_pdf?1240683474 Network Security BCE-DSE1B Compare various Cryptographic Techniques https://egovernance.unom.ac.i n/ugsvllabus/pdf/BCE: DSE1C Network Security BCE-DSE1C Design Secure applications https://egovernance.unom.ac.i n/ugsvllabus/pdf/BCE: DSE1C Software Engineering BCE-CSC14 The students should be able to specify software using tools https://egovernance.unom.ac.i n/ugsvllabus/pdf/BCE: CSC14_pdf?1171968384 Software Engineering BCE-CSC15 To explain and apply levels of services of Cloud https://egovernance.unom.ac.i n/ugsvllabus/pdf/BCE: CSC15_pdf?1481000195 Introduction to Cloud BCE-DSC16 To describe the security aspects in cloud https://egovernance.unom.ac.i n/ugsvllabus/pdf/BCE: CSC15_pdf?1481000195 Corop Practical-VII - Coroe Practical-VIII - Coroe Practical-VII - Coroe Practical-VI			Gain a working knowledge of the	https://egovernance.unom.ac.i
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ASSESSMENT PATTERN CORE PAPERS, ELECTIVE PAPERS AND EXTRA DISCIPLINARY PAPERS

INTERNAL ASSESSMENT: 25 Marks EXTERNAL ASSESSMENT: 75 Marks

TOTAL: 100 Marks

INTERNAL ASSESSMENT PATTERN

Attenda	ance (5 Ma	arks)	Seminar	Assignment	Test	Total
90-100	80-90	70-80	(5 Marks)	(5 Marks)	(10 Marks)	25

EXTERNAL ASSESSMENT

End Semester External University Examination: 75 MARKS

Duration 3 Hours

- Part -A-(10X2=20) Answer any 10 out of 12 Questions 1-12
- Part -B-(5X5=25) Answer any 5 out of 7 Questions 13-19
- Part -C-(3X10=30) Answer any 3 out of 5 Questions 20-24
- •

QUESTION PAPER PATTERN

Subject Name	Marks	Total
Language, English, Core, Allied and NME	PART- A: 10 out of 12 = 10 x 2 = 20 marks	75
Papers	PART- B: 5 out of $7 = 5 \times 5 = 25$ marks	
	PART- C: 3 out of $5 = 3 \times 10 = 30$ marks	