



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

(Affiliated to Bharathidasan University)

TIRUCHIRAPPALLI – 620 020

Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Teaching Plans



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

(2018-2019)

DEPARTMENT OF MICROBIOLOGY

JAMAL MOHAMED COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI – 620 020

TEACHING PLAN (2018 – 19) SEMESTER: I

Department : Microbiology
Subject Title with Code : Basic Microbiology (17 UMB1C1)

Class : I – B.Sc.,
No. of Hours per Week: 05

Unit	Topics	Name of the Teaching Staff with Initial	No. of hours required for Completion	Completion before CIA Test - I / II	Signature of the Staff	Remarks of HOD / MID
1.	Introduction to Microbiology – History of Microbiology - Contribution of Antony van Leeuwenhoek, Louis Pasteur, Robert Koch, Edward Jenner. Fannie Eilshemius and John Tyndall. Theory of spontaneous generation, Germ theory of disease and Joseph Lister, Winogradsky. Scope of microbiology. Compound Microscope	Dr. N. Reehana	06	CIA - I	N. Reehana	
			07	CIA - II		
2.	Sterilization and Disinfection: Principles- Methods of Sterilization – Physical methods – Dry heat- Moist heat, Filtration (Membrane & HEPA). Radiation- Chemical Sterilization- Chemical agents. Mode of action – Phenol coefficient test- Sterility testing.	Dr. H. Vajiha Banu	06	CIA - I	H. Vajiha Banu	
			07	CIA - II		
3.	Cultivation of Microbes - Nutritional requirements, Nutritional Types of bacteria- Phototrophs, Chemotrophs, Autotrophs Heterotrophs and Obligate parasites.	Dr. M. Mohamed Mahroop Raja	06	CIA - I	M. Mahroop Raja	
	Media preparation - Solid and Liquid- Types of Media – Crude, Semi Synthetic, Synthetic, Enriched, Selective, Differential and Special Type of Media		07	CIA - II		



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

JAMAL MOHAMED COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 620 020						
TEACHING PLAN (2018- 19)			SEMESTER: I			
Department : Microbiology		Subject Title with Code : General Biochemistry (17 UMB1A1)		Class : I – B.Sc.,		
				No. of Hours per Week: 05		
Unit	Topics	Name of the Teaching Staff with Initial	No. of hours required for Completion	Completion before CIA Test - I / II	Signature of the Staff	Remarks of HOD / MID
1.	Carbohydrates: Biological significance, Occurrence, Classification of Carbohydrates. Structure of glucose- Straight chain structure and Ring structure. Disaccharides- Maltose, Lactose and Sucrose. Polysaccharides – Glycogen.	Dr. N. Packialakshmi	06	CIA - I	N. Packialakshmi	
			07	CIA - II		
2.	Amino acids: Classification and properties. Structure, Zwitterion nature. Proteins- Classification. Structure and function. Primary, Secondary, Tertiary and Quaternary structure. Proteolysis, Transamination and Deamination.	Dr. R. Syed Moideen	06	CIA - I		
			07	CIA - II		
3.	Enzymes: General characteristics. Factors affecting enzyme activity. Regulation of enzyme activity. Enzyme kinetics, Km value, activation and inhibition. Coenzymes and cofactors. Non protein enzymes. Applications of enzymes	K. Vijayalakshmi	06	CIA - I	K. Vijayalakshmi	
			07	CIA - II		



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2.3 Teaching - Learning Process

JAMAL MOHAMED COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI - 620 020

TEACHING PLAN (2018-19) / SEMESTER: I

Department : Microbiology
Subject Title with Code : Basic Microbiology Practical (17 UMB1C2P)

Class : I – B.Sc.,
No. of Hours per Week: 03

Unit	Topics	Name of the Teaching Staff with Initial	No. of hours required for Completion	Completion before CIA Test - I / II	Signature of the Staff	Remarks of HOD / MID
1.	Laboratory practice and precautions.	Dr. R.Syed Moideen	19	CIA - I		
2.	Cleaning of Glass wares.					
3.	Antiseptics and disinfectants.					
4.	Methods of sterilization and testing of sterility- demonstration.					
5.	Culture media preparation – Liquid and Solid medium.					
6.	Enumeration of bacteria from soil.					
7.	Study of colony morphology.					
8.	Measurement of microorganisms by the use of an ocular micrometer.					
9.	Enumeration Fungi from soil.					
10.	Enumeration of Actinobacteria from soil.					
11.	Pure culture techniques – streak plate method.	20	CIA - II			
12.	Staining of bacteria- Simple staining technique.					


 Signature of the Dean of Arts / Science


 Signature of the HOD / MID


 Signature of the Principal



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2.3 Teaching - Learning Process

JAMAL MOHAMED COLLEGE (AUTONOMOUS)
TIRUCHIRAPPALLI – 620 020

TEACHING PLAN (2018 – 19)

SEMESTER: II

Department : Microbiology
Subject Title with Code : Bacteriology (17 UMB2C3)

Class: I – B.Sc.,
No. of Hours per Week: 06

Unit	Topics	Name of the Teaching Staff with Initial	No. of hours required for Completion	Completion before CIA Test - I / II	Signature of the Staff	Remarks of HOD / MID
1.	Morphology and fine structure of Bacteria: Size, Shape and Arrangement of Bacterial cells. Bacterial Structures. Flagella and Motility- Hydrodynamics of Flagella, Swimming Motility Without flagella. Gliding Motility, Bacterial Chemotaxis Pili, Capsules, Sheaths, Prosthecae and Stalks. Gram positive and Gram negative Eubacteria.	K.Vijayalakshmi	06	CIA - I	K.V.	
			07	CIA - II		
2.	Structures Internal to the Cell wall: The Cytoplasmic Membrane, Protoplast and Spheroplasts, Membranous Intrusions and Intracellular Membrane Systems Cytoplasm, Cytoplasmic inclusions and Vacuoles and Nuclear Material. Spores (Endospores) and Cysts.	Dr.A. Raja	06	CIA - I	Dr.A.	
			07	CIA - II		
3.	Staining: Stains and Staining reactions – Types of staining – Simple, Differential (Grams, Spore, AFB), Capsule staining, Nuclear and Flagella staining. Staining of Actinobacteria, Mycoplasma (PPLO), Staining of Spirochetes by Fontana's method, Wet mount.	Dr.N.Reehana	06	CIA - I	N.Ree	
			07	CIA - II		



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

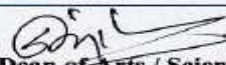
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TEACHING PLAN (2018-19) SEMESTER: II

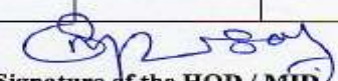
Department : Microbiology
Subject Title with Code : Cell Biology Practical (17 UMB2A4P)

Class : I – B.Sc.,
No. of Hours per Week: 03

Unit	Topics	Name of the Teaching Staff with Initial	No. of hours required for Completion	Completion before CIA Test - I / II	Signature of the Staff	Remarks of HOD / MID
1.	Cell organelle separation by centrifugation methods.	K.Vijayalakshmi	19	CIA - I	K.V.	
2.	Identification of various stages of cell division (mitosis) – Onion.					
3.	Viability staining technique for bacteria.					
4.	Sectioning of plant stem, root and leaves.					
5.	Microscopic identification of chromosome in chironomous larvae.		20	CIA - II		
6.	Fraction of Cellular components.					
7.	Isolation of Chloroplast.					
8.	Isolation of Mitochondria.					


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TEACHING PLAN (2018- 19)			SEMESTER: II			
Department : Microbiology		Subject Title with Code : Cell Biology (17 UMB2A3)		Class : I – B.Sc.,		
				No. of Hours per Week: 04		
Unit	Topics	Name of the Teaching Staff with Initial	No. of hours required for Completion	Completion before CIA Test - I / II	Signature of the Staff	Remarks of HOD / MID
1.	Introduction to cells: Classification of cell types; Cell theory; Organization of plant and animals cells. Structural comparison of Microbial, Plant and Animal cells.	Dr.N.Reehana	06	CIA - I	N. Reehana	
			07	CIA - II		
2.	Ultra structure of cells: Prokaryotic and Eukaryotic- Sub cellular Organization; structure and function of Cytosol. Nucleus, Endoplasmic reticulum and Chloroplast, Mitochondria, Vacuoles, Peroxisomes and lysosome .	Dr.N.Reehana	06	CIA - I	N. Reehana	
			07	CIA - II		
3.	Chromosomes and cell division: Morphology, Structural organization, ultra Structure of chromosome Specialized chromosomes. Cell cycle, Mitosis, Meiosis, Cellular senescence and applications.	Dr. R.Syed Moideen	06	CIA - I		
			07	CIA - II		



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2.3 Teaching - Learning Process

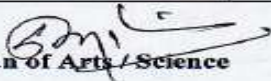
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TIRUCHIRAPPALLI - 620 020

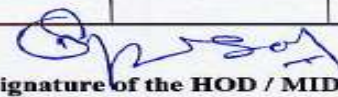
TEACHING PLAN (2018-19) SEMESTER: II

Department : Microbiology
Subject Title with Code : Bacteriology Practical (17 UMB2C4P)

Class : I – B.Sc.,
No. of Hours per Week: 03

Unit	Topics	Name of the Teaching Staff with Initial	No. of hours required for Completion	Completion before CIA Test - I / II	Signature of the Staff	Remarks of HOD / MID
1.	Temporary wet mount (TWM) technique by hay infusion broth.	Dr. N. Packialakshmi	19	CIA - I	N. Pae	
2.	Motility of bacteria - Hanging drop technique.					
3.	Media Preparation – selective media and differential media.					
4.	Acid – fast staining.					
5.	Bacterial spore (endospore) staining.		20	CIA - II		
6.	Capsule staining.					
7.	Negative staining technique.					
8.	Determination of bacterial growth by direct count.					
9.	Determination of bacterial growth by turbidity measurements (Spectrophotometric method).					


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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

DEPARTMENT OF ENGLISH

JAMAL MOHAMED COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 620 020 TEACHING PLAN (2018-2019)						
Department	ENGLISH	Class	I B.Sc Micro Bio	Semester	I	
Subject title	ENGLISH FOR EFFECTIVE COMMUNICATION	Subject code	17UCN1E1	No. of hours per week	6	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Essentials of Education - Sir Richard Livingstone	S. SHOBANA (SSH)	18	CIA - I	S. Shobana	
	The Happy Prince - Oscar Wilde	S. SHOBANA (SSH)		CIA - I	S. Shobana	
	Uses of Present Tense	S. SHOBANA (SSH)		CIA - I	S. Shobana	
II	What I Found in My Pocket - G.K. Chesterton	S. SHOBANA (SSH)	18	CIA - I	S. Shobana	
	Two Gentlemen of Verona - A.J. Cronin	S. SHOBANA (SSH)		CIA - I	S. Shobana	
	Uses of Past Tense	S. SHOBANA (SSH)		CIA - I	S. Shobana	
III	Pandora's Box - Ralph Waldo Emerson	S. SHOBANA (SSH)	18	CIA - I	S. Shobana	
	Mrs. Packletide's Tiger - H.H. Munro	S. SHOBANA (SSH)		CIA - II	S. Shobana	
	Uses of Future Tense	S. SHOBANA (SSH)		CIA - II	S. Shobana	



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2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	INo. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	At Harrow and Cambridge - Jawaharlal Nehru	S. SHOBANA (SSH)	18	CIA - II	S. Shobana	
	The Verger - William Somerset Maugham	S. SHOBANA (SSH)		CIA - II	S. Shobana	
	Active and Passive Voices	S. SHOBANA (SSH)		CIA - II	S. Shobana	
	My Vision for India - Dr. A. P. J. Abdul Kalam	S. SHOBANA (SSH)		CIA - II	S. Shobana	
V	Upper Division Love - Manohar Malgonkar	S. SHOBANA (SSH)	18	CIA - II	S. Shobana	
	Uses of Articles	S. SHOBANA (SSH)		CIA - II	S. Shobana	

A. J. J. J.
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S. V.
Signature of the HOD / MID



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

JAMAL MOHAMED COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 620 020 TEACHING PLAN (2018-2019)						
Department	ENGLISH	Class	i) BSc IT	Semester	ii	
Subject title	POETRY AND- ONE ACT PLAYS	Subject code	17UCN3E3	No. of hours per week	6	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
i	The Road Not Taken – Robert Frost Ozymandias – P.B. Shelley	V. PAUITHRA (VP) V. PAUITHRA (VP)	18	CIA-I CIA-I	V. Paethu	
ii	Ulysses – Alfred Lord Tennyson Indian Weavers – Sarojini Naidu	V. PAUITHRA (VP) B. VASMIN BANU (BYB)	18	CIA-I CIA-II	V. Paethu B. Vasmin	
iii	The Unknown citizen – W.H. Auden My Grandmother's House – Kamala Das	V. PAUITHRA (VP)	18	CIA-II CIA-II	V. Paethu	
iv	The Bishop's Candlesticks – Norman McKinnel The Valiant – Holworthy Hall & Robert Middlemass	V. PAUITHRA (VP) B. VASMIN BANU (BYB)	18	CIA-I CIA-I	V. Paethu B. Vasmin	



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	The Best Laid Plans – Foxwell Mitchell The Unexpected – Ella Jenkins	B. YASMIN BANU (BYB) V. PANITHRA (VP)	18	CIA-I CIA-II	B. Yamin VPanithra	


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JAMAL MOHAMED COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 620 020

TEACHING PLAN (2018-2019)

Department	English	Class	I BA - C	Semester	II	
Subject title	Fiction - I	Subject code	17UEN2C4	No. of hours per week	4	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Saki - The Open Window Oscar Wilde - The Model Millionaire.	B. Sumaiya Baru (SBU)	12	CIA-I		
II	William Somerset Maugham The Verger O'Herry - The gift of the Magi	A. Sumaiya Shaheedha (SS) B. Sumaiya Baru (SBU)	12	CIA-I		
III	Walter Scott - Kenilworth	A. Sumaiya Shaheedha (SS)	12	CIA-I		



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TEACHING PLAN (2018-2019)

Department	English	Class	II B.A.B	Semester	IV	
Subject title	Journalism	Subject code	17UEN4A8	No. of hours per week	4	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
<u>I</u>	Introduction to Journalism	R. Sofiya (RS)	12	CIA-I	R. Sofiya	
<u>II</u>	Reporting News Agencies	B. JARINA BEGAM (JB)	12	CIA-I	B. Jarina Begam	
<u>III</u>	News Writing Interviews	R. SOFIYA (RS)	12	CIA-I	R. Sofiya	
<u>IV</u>	Language for Journalism, Style	R. SOFIYA (RS)	06	CIA-II	R. Sofiya	



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
V	Leads, kinds, Headlines, Writing	B. JARINA BEYAM (JB)	06	CIA-II		
	Editing	B. JARINA BEYAM (JB)	12	CIA-II		

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2.3 Teaching - Learning Process

JAMAL MOHAMED COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 620 020

TEACHING PLAN (2018-2019)

Department	English	Class	I M-A A'	Semester	II	
Subject title	Advanced Communication Skills	Subject code	17PEN2CE2	No. of hours per week	6	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Grammar Tenses – Voices – Concord – Infinitives – Gerunds and Participles – Words often confused and misused – Idioms and Phrases – Clauses – Type of Sentences.	B. JARIMA BEYAM (JB)	18	CIA-I		
II	Conversation in Select Contexts Introductions, Permission, Request, offer, greetings, sympathy, apology, suggestion, persuasion, telephonic conversation, complaint, warning, gratitude.	M. Rahman Khan (RKH)	18	CIA-I		
III	Public Speaking Welcome Speech – Introducing guests – Vote of Thanks – Speech on	B. JARIMA BEYAM (JB)	18	CIA-I		



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	Current topics like use of Cellphones, beauty contests, pollution etc; Personality Development Soft Skills - International Body Language - Goal Setting - Positive attitude - Emotional intelligence - Leadership qualities - Problem Solving - Human Values.	M. Rahman Khan (RK)	18	CIA-II	MPK	
V	Communication for career Preparing a C.V - Group discussion - Interviews - Standard, Panel, walk-in, group, stress, mock interviews (Practice).	S. VADIALI SVA	18	CIA-II	S	
Signature of the Dean of Arts / Science: <i>A. Jaimathe</i>						Signature of the HOD / MID: <i>S</i>



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JAMAL MOHAMED COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 620 020 TEACHING PLAN (2018-2019)						
Department	ENGLISH	Class	II - MA	Semester	IV	
Subject title	CONTEMPORARY LITERARY CRITICISM	Subject code	17PEN4C14	No. of hours per week	6	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I.	1. John Crowe Ransom - Criticism Inc. 2. Cleanth Brooks - The Language of Paradox.	FB (A. FAMILIAR BANU)	9 9	CIA I	A. Familiar	
II.	1. Carl Jung - Psychology and Literature. 2. Northrop Frye - The Archetypes of Literature.	FB	9 9	CIA I	A. Familiar	
III.	1. George Lukacs - The Ideology of Modernism. 2. Raymond Williams - Realism and the contemporary Novel.	FB	9 9	CIA I	A. Familiar	



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Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
<u>IV.</u>	1. Roland Barthes – Criticism as Language.	FB	9	CIA II	A. J. J. J.	
	2. Wayne C. Booth – From the Rhetoric of Fiction (Sethuraman Vol. II).		9			
<u>V.</u>	1. Sigmund Freud – Creative Writers and Daydreaming.	FB	9	CIA II	A. J. J. J.	
	2. Elaine Showalter – Towards a Feminist Poetics.		9			

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2.3 Teaching - Learning Process

DEPARTMENT OF COMMERCE

JAMAL MOHAMED COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI - 620 020						
TEACHING PLAN (2018-2019)						
Department	COMMERCE		Class	I-B.com-I		Semester
Subject title	Principles of Accountancy		Subject code	17UC0101		No. of hours per week
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-III	Signature of the staff member	Remarks of HOD / MID
I	Accounting - meaning - definition - functions Basic accounting concepts and convention - Double entry and single entry systems of accounting Journal - ledger - preparation of Subsidiary books - Trial balance Rectification of Errors - suspense account	AH & SD	12 hrs	CIA I	MF ve. @	
II	Final accounts of Sole Trader Trading a/c - profit and loss a/c balance sheet - Adjustments - outstanding prepaid expenses - Accrued income and income Received in advance bad debts and provision for bad debts provision for discounts - Depreciation Loss by fire.	AH	12 hrs	CIA I	MF	



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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
III	Bank Reconciliation Statement - Bills of Exchange - definition - Features - Discounting of bill. Endorsement, Retirement and Renewal of Bill	AH SD	12 hrs	CIA I CIA II	M u. g. r.	
IV	Depreciation Accounting - objectives Methods straight line method - Written down Value method - Annuity method and Sinking Fund method - Average Due Date - Account Current	AH 3 SD	12 hrs	CIA II	M u. g. r.	
V	Accounts of Non-profit Organisations - Receipts and payments Account - Income and expenditure Account - Balance Sheet.	AH 3 SD	12 hrs	CIA II	M u. g. r.	


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Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

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TEACHING PLAN (2018-2019)						
Department	COMMERCE		Class	I B Com I		Semester
Subject title	BUSINESS ORGANISATION		Subject code	17UC01C2		No. of hours per week
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I.	Meaning of Business - Features - Characteristics - Elements - objectives - scope - Comparison b/w Business, Profession & Employment.	N. MOHAMED SIDDIK (MS)	10 hrs	CIA - I		
II.	Forms of Business organisation - Sole trading concern - Features - Merits & Demerits. Partnership Firms - Characteristics - Merits & Demerits.	Dr. A. KHALEEL RAHMAN (DR. KR)	11 hrs	CIA - I		
III.	Joint Stock Company - Features - Merits & Demerits - Types of Companies - Private Company - Public Company & Govt Company.	Dr. A. KHALEEL RAHMAN (DR. KR)	10 hrs	CIA - I & CIA - II		



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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	Distinction between Public & private company. Co-operatives societies - Meaning & objectives - Characteristics - Merits & Demerits - Types of Co-operatives - factors determining the choice of a suitable forms of Co-op	N. MOHAMED SIDDIQ (MS)	11 hrs	CIA-I		
V	Plant location - Meaning - Theories - factors Influencing Location of a plant - Ideal Location - Plant Layout - Meaning & Definition - Types of Layout	DR. KHALEELUR RAHMAN (Dr. KR) N. MOHAMED SIDDIQ (MS)	10 hrs	CIA-II	 	

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Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

D.R.B.A

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TEACHING PLAN (2018-2019)

I B. Com I
B.E.
BA2 + BS2

Department	COMMERCE		Class	I.B.Com - I.		Semester	I	
Subject title	BUSINESS ECONOMICS		Subject code	17UC01A1		No. of hours per week	04	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID		
I	Economics – Definitions – Micro and Macro Economics – Economic Systems – Types – Features – Merits – Demerits – Business Economics – meaning – Nature and Scope.	DR. S. BASHEER AHAMED (D.R.B.A)	10 hrs	CIA-I ✓	✓			
II	Utility – meaning – types – law of Diminishing marginal utility – Assumptions – Importance – Demand – meaning – types – Factors – law of demand – Demand curve – Elasticity of demand – meaning – types – measurement – Indifference curve Analysis – characteristics – uses.	DR. M. BALASUBRAMAN (D.V. BS)	11 hrs	CIA-I ✓	✓			



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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
III	Factors of Production – Features	Dr. S. BASHEER AHMED (CDV:BA)	4 hrs	CIA-I		
IV	Law of Diminishing Returns – Law of Returns to Scale – Cost Concepts – Types – Cost Functions – Short run and Long run	Dr. S. BASHEER AHMED (CDV:BA)	6 hrs	CIA-II		
V	Perfect Competition – Features – Price Determination – Monopoly – Features – Price Determination – Discriminating Monopoly – Price Determination – Monopolistic Competition – Features – Price Determination – Oligopoly – Price Determination.	Dr. S. BASHEER AHMED Dr. M. BALASUBRAMANIAM (CDV:BS)	11 hrs	CIA-III		
VI	Marginal Productivity Theory of Distribution – Modern theory of Distribution – Ricardian Theory of Rent – Marginal Productivity Theory of Wages – Keynes' Liquidity Preference Theory of Interest – Salomonson's Innovation Theory of Interest	Dr. M. BALASUBRAMANIAM (CDV:BS)	10 hrs	CIA-IV		

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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

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TEACHING PLAN (2018-2019)						
Department	COMMERCE		Class	I.B Com-I		Semester
Subject title	MODERN MARKETING		Subject code	17UC01A2		No. of hours per week
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Marketing, Definition, Concepts of modern marketing	Dr. M. Habeeb Rahman (Dr. HR)	10	CIA-I	M.N.S.	
II	Functions of Marketing, marketing mix.					
II	Consumer Behaviour, meaning Importance, Buying motives, Types	Dr. Y. Moorthy Shy (Dr. Ym)	11	CIA-I	J. M. L.	
III	Market Segmentation, Bases.					
	Product, meaning types, Product mix Product Life Cycle	Dr. M. Habeeb Rahman (Dr. HR)	5	CIA-I	M.N.S.	
	Branding and Packaging, Importance		6	CAI-II	M.N.S.	



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	Pricing Meaning Objectives Factors influencing Pricing Decisions Methods and kinds of pricing Promotion, Advertising, Personal selling Sales promotion.	Dr. Y. Mayadharan SM (Dr. Ym)	10	CIA II	J. Mayadharan	
	Channels of Distribution Types, Importance, Factors Influencing channels of Distribution	Dr. M. Habeeb Rahman (Dr. HR)	6	CIA-II	m. n. s.	
V	Functions of middlemen.	Dr. Y. Mayadharan SM (Dr. Ym)	5	CIA II	J. Mayadharan	

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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

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2.3 Teaching - Learning Process

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TEACHING PLAN (2018-2019)						
Department	COMMERCE	Class	I B.Com II	Semester	I	
Subject title	VALUE EDUCATION	Subject code	17UCN1VE	No. of hours per week	02	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I.	Life-Philosophy- Basic needs - safety measures - ethics, wisdom of perfection stages.	Dr. L. Asif Ahmed (AA)	03	CIA-I	(Signature)	
II	Law of Nature - Unified force, cause & effect - system - Education - non-violence, five fold moral culture, protecting nature.	"	03	CIA-I	(Signature)	
III	minuting youthfulness, bio-regeneration and body, food transformation into seven minerals.	"	02	CIA-I	(Signature)	
IV	Reasons for hunger, circular movement of life force, mind development of mind in three stages, mental frequency meditation benefits.	"	03	CIA-I	(Signature)	
V	Indian culture - Four standards, Spiritually Guided young Ase, family life, Inspection service	"	02	CIA-I	(Signature)	



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
II	Analysis of thought - Six tools for thoughts, Practical technique for analysis of thoughts.	Dr. L. Asid Ahmed (AA)	02	CIA-II	(Signature)	
III	Desire - mortification & Analysis of desire - Anger - method of neutralization of Anger benefit of blessings & Greatness of friends, love, & confession.	"	02	CIA-II	(Signature)	
IV	Human rights - Concept - Characteristics functional principles, classification	"	03	CIA-II	(Signature)	
IV	Theories of Human rights, legal theory, - social theory, economic theory - Human duties.	"	02	CIA-II	(Signature)	
V	Anti-corruption: Causes, Anti Measures, in India - CBS, Santharam Committee	"	03	CIA-II	(Signature)	
V	Recommendations - CUS - functions - Bill 2007 - features of Lokpal - Lokayukta, Right	"	02	CIA-II	(Signature)	

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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	Profit, Bottom line – corporate styles; corporate governance – understanding team work and leadership	Dr. BA 9 Dr. BS	15	CIA-II	 	
V	Arguments – For and Against; Corporate Philanthropy; Financial disclosure, corporate disclosure practices; Transparency and business ethics in corporate sector.					
	Case of corruption, corporate scandals, Insider trading – Concept and rationale behind prohibition of insider trading – SEBI regulations	Prof. MJ	15	CIA-II		

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2.3 Teaching - Learning Process

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TEACHING PLAN (2018-2019)						
Department	COMMERCE		Class	B COM		Semester
Subject title	International Marketing		Subject code	17 PCO HCH		No. of hours per week
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	International marketing & Environment Nature, importance and scope of International marketing - Influence of Physical, economic, socio-cultural, Political and legal Environments - Scanning and monitoring global marketing environment	Dr. SP	16 Hrs	CIA-I	[Signature]	
II	International market & Product Planning Screening and Selection of markets - International market entry strategies - Export Licensing - Major product decisions - Product Design, Labeling, Packaging, Branding and product support services - Managing product line - International Trade Policy - New product Development	Dr. VK	16 Hrs	CIA-II	[Signature]	
III	International product Pricing & Distribution Pricing of International markets - Factors affecting International Price Determination - International Pricing process and Policies -					



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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

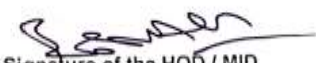
NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
III	Profit, Bottom line – corporate styles; corporate governance – undertaxing team work and leadership	Dr. BA 9	15	CIA-II		
IV	Arguments – For and Against; corporate philanthropy; financial disclosure, corporate disclosure practices; Transparency and business ethics in corporate sector.	Dr. BS	15	CIA-II		
	Case of corruption, corporate scandals, Insider trading – Concept and rationale behind prohibition of insider trading – SEBI Regulations	Prof. M1	15	CIA-II		


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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	Delivery terms and currency for Export Pricing Quotations - Transfer Pricing, Distribution Channel Strategy - International distribution channels - Role & Functions - Selection & management of overseas agents.	DSVK & DS MR	16 Hrs	CIA-II		
IV	International Promotional Strategies Communication across Countries - Complexities & Barriers - International Promotion planning & Tools - Advertising - Personal Selling - Publicity & Sales Promotion - Developing International Promotion Campaign - Standardization - Planning for Direct Mail - Sales Literature, Trade Fairs & Exhibitions.	DS. SD	16 Hrs	CIA-II		
V	International Marketing Trends: Emerging trends in IM - IM through Internet - Ecological Concerns & International Marketing Ethics - Role of Govt in promoting International Marketing - International Marketing Problems & Prospects in India	DS. MR	16 Hrs	CIA-II		

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2.3 Teaching - Learning Process

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TEACHING PLAN (2018-2019)						
Department	COMMERCE		Class	II. M. Com	Semester	IV
Subject title	EXPORT MANAGEMENT		Subject code	17PC04CIS	No. of hours per week	6
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion, before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Export Management: Meaning & Features - Objectives & scope - Export Management Functions - Export Department - Structure - Preliminaries for starting Export Business - problems of Exporters - Guidelines for successful Exporting.	Dr. L. Asid Ahamed (Dr. AA)	15	CIA - I		
II	Export planning & control: Importance - Steps in Export planning - Types of Export plan - planning products for Export markets - Factors - Quality Control for Export products - methods - Selection of overseas buyers - Criteria - Control & overseas market entry - Strategies T2	Dr. K. Khaja Mohideen (Dr. KM) Dr. K. Khaja Mohideen Dr. KM	10 6	CIA - I CIA - II	 	



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
III	Export Procedure Documentation: Methods - Stages in Export procedure - Types of Documents in Export - Payment of Export Proceeds - Methods - ISO 9001 Certification - Procedure of obtaining.	Dr. M. Habeebullah Rahman (Dr. HR)	16	CIA-I	M.H.	
IV	Export Finance & Assistance: Pre-shipment credit - Post shipment finance - Types & procedure of obtaining - EXIM bank - ECC - Functions - incentives - financial and non financial.	Dr. K. Khaja Mohideen (Dr. KM) Dr. L. Asid Ahmed (Dr. AA)	8 8	CIA-TI CIA-TI	 	
V	Export promotion & Policy: Objectives - Importance - Export Promotion measures - Export promotion organization - Classification - WTO - Functioning - TRIPS, TRIMS, MFN, GSP - Highlights of EXIM policy.	Dr. M. Habeebullah Rahman (Dr. HR) Dr. L. Asid Ahmed (Dr. AA)	7 8	CIA-II CIA-TI	M.H. 	

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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
III	Prevention and Settlement - conciliation machinery; Arbitration and Adjudication machinery.	Dr. Y. MOYDEEN SHA (Dr. YM)	8 hrs	CIA-I	y. moydeen	
IV	Collective Bargaining - Features - Functions of collective Bargaining - Procedure of collective bargaining - Worker's Participation in management.	Dr. E. MUBARAK ACI (Dr. MA)	16 hrs	CIA-I & CIA-II	E. Mubarak	
V	Standing order and Code of Conduct - Grievance - meaning - Grievance Procedure - Disciplinary Procedure.	Dr. Y. MOYDEEN SHA (Dr. YM)	16 hrs	CIA-II	y. moydeen	


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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

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TEACHING PLAN (2018-2019)						
Department	COMMERCE	Class	I.M.COM	Semester	II	
Subject title	Quantitative techniques	Subject code	17PC02C5	No. of hours per week	06	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	correlation Analysis - Karl Pearson Correlation - multiple and Partial correlation - regression analysis - simple and multiple	Dr. S. BASHEER AHAMED (Dr. BA)		CIA - I		
II	Analysis of time series - Fitting a straight line by the method of least squares - Index Numbers - time and factor reversal test - Cost of living index Number.	Dr. S. Basheer AHamed (Dr. BA)		CIA - II		
III	Probability - Problems applying Addition and multiplication Theorem	Dr. M. Manimuthu (Dr. ME)		CIA - I		



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Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	Theoretical distributions - Binomial, Poisson and Normal distributions.	Dr. MR		CIA-I	M. N. [Signature]	
IV	Significance tests in small samples (t-test) - testing the significance of the mean of a random sample - Independent and dependent samples - chi-square test.	Dr. E. M. SUBRAK ALI (Dr. MA)		CIA-I CIA-II	[Signature]	
V	Linear Programming - simplex method - transportation Problems - Northwest corner rule, - Assignment Problems.	Dr. M. MARINO T. N. (Dr. MR)		CIA-II	M. N. [Signature]	

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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

DEPARTMENT OF COMPUTER SCIENCE

JAMAL MOHAMED COLLEGE (AUTONOMOUS)

TIRUCHIRAPPALLI - 620 020

TEACHING PLAN (2018-2019)

Department	Computer Science	Class	II B.Sc. (Aided)	Semester	IV	
Subject title	DATA STRUCTURES AND ALGORITHMS	Subject code	17UCS4C7	No. of hours per week	5	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
MMS I	Introduction and Preliminaries : Basic Terminology, Elementary Data Organization, Data Structures – Data Structure Operations, Algorithms: Complexity, Time-space Tradeoff – Mathematical Notations and Functions – Control Structures – Complexity of Algorithms.	M. Mohamed Surputhoor (MMS) P.H. Maitheen Shafiq (PHS)	13	CIA - I		
MMS II	Arrays and Stacks : Arrays – Introduction – Linear Array, Representation of Linear Array in Memory, Traversing Linear Arrays, Inserting and Deleting, Multidimensional Arrays – Stacks – Array Representation of Stack, Arithmetic Expressions: Polish Notation – #Recursion#	M. Mohamed Surputhoor (MMS) P.H. Maitheen Shafiq (PHS)	13	CIA - II	Nindhu	
PHS III	Queues and Linked Lists : Queues – Deques – Array Representation Queues – Insertion and Deletion – Linked List	M. Mohamed Surputhoor (MMS) P.H. Maitheen Shafiq (PHS)	6	CIA - II	P.H. Maitheen Shafiq	



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
III	Representation of Linked Lists in Memory, Traversing a Linked List, Insertion into a Linked List, Deletion from a Linked List, // Two-Way Linked Lists //	PHS	6	CIA -I	P.H. Mai	
IV	Trees and Graphs : Binary Trees, Representing Binary Trees in Memory, Traversing Binary Tree - Threads, Binary Search Tree, Searching and Inserting in Binary Search Tree, Deleting in Binary Search tree - Graph Theory - Terminology, Sequential Representation of Graph: Adjacency Matrix, Path Matrix	PHS	14	CIA -I	P.H. Mai	
V	Sorting and Searching: Sorting - Bubble Sort, Insertion Sort, Selection Sort, //Merge Sort//, Quick sort, Heap Sort - Searching: Linear Search, Binary Search	mms	1	CIA -II	M. mms	

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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

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TIRUCHIRAPPALLI - 620 020

TEACHING PLAN (2018-2019)

Department	Computer Science	Class	III B.Sc. (Aided)	Semester	VI	
Subject title	Core XIII : Computer Networks	Subject code	14UCS6C13	No. of hours per week	5	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Introduction – Uses of Computer Networks – Network Hardware – Network Software: Protocol Hierarchies – Design Issues for the Layers – Connection Oriented and Connectionless Services – Service Primitives Reference models: The OSI Reference Model – TCP/IP Reference Model.	(GR) (P.H.S) (S.I)	CIA-I 13	CIA TEST-I		
II	The Physical Layer: Guided Transmission Media – Public Switched Telephone Network – Structure of Telephone System – Trunks and Multiplexing – Switching - The Data link Layer: Data link layer Design Issues – Error Detection and Correction – Stop and Wait Protocol – Sliding Window Protocols.	G. RAVI	13	CIA TEST-II		
III	The Network Layer: The Network Layer Design Issues – Routing Algorithms: The Optimality Principle – Shortest Path Routing – Flooding – Distance Vector Routing – Link State Routing – Hierarchical Routing	S. SYED IBRAHIM (S.I)	13	CIAI		



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Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
III	Broadcast Routing – Congestion Control Algorithms: General Principles of Congestion Control – Congestion Prevention Policies – Congestion Control in Virtual-Circuit Subnets and Datagram Subnets – Network Layer in the Internet: IP Protocol – IP addresses.	SI	5 hr	CIA-III		
IV	The Transport Layer: The Transport Service – Elements of Transport Protocols – Internet Transport Protocols: Introduction to UDP – RPC – TCP: TCP Service Model – TCP Protocol – TCP Segment Header	SI	13	CIA-II		
V	The Application Layer: The DNS Name Space – E-mail: Architecture and Services – Message Formats – Network Security: Cryptography – DES – RSA – Communication Security : Firewalls – Virtual Private Networks.	PHS	13	CIA-I CIA-II	PH Nair	

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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

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TEACHING PLAN (2018-2019)

Department	Computer Science	Class	III B.Sc. (Aided)	Semester	VI	
Subject title	Core XV : Microprocessor Fundamentals	Subject code	14UCS6C15	No. of hours per week	4	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Word Length of a Microprocessor – Evolution of Microprocessors – Single Chip Microcontrollers – Embedded Microprocessors – Hardware, Software and Firmware – Central Processing Unit – Memory – Buses – Processing Speed of a Computer – Classification of Computers – Von Neumann Architecture – Harvard Architecture – Data Flow Architecture – Types of Microprocessors – Microprocessor Applications.	(AR) (SAS)	10hrs	CIA II	T. Abdul Razak S. Ardur Saeem	
II	Intel 8085 Microprocessor Architecture – Register – Status Flags – Pin Configuration – Opcode and Operands – Instruction Formats – Instruction Cycle – Fetch Operation – Execute Operation – Addressing Modes.	(T. Abdul Razak) (S. ARDUR SAEEM)	12hrs	CIA I		
III	Instruction Set of 8085 – Data Transfer Instructions – Arithmetic Instructions – Logical Instructions – Shift and Rotate Instructions – Branch Instructions – Jump, Call and Return	(T. Abdul Razak) (S. ARDUR SAEEM)	10hrs	CIA-II		



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
III	Stack Instructions – I/O, Machine Control and other Instructions – Assembly Language – Assemblers – Stacks – Subroutines – Macros.	T. Abdul Kader (AR) S. Abdul Saleem (SAS)	10hrs	CIA - I	<i>[Signature]</i> T. Abdul Kader S. Abdul Saleem	
IV	Assembly Language Programs – Addition, Subtraction, Multiplication and Division of 8-bit numbers – Decimal Addition and Subtraction – Multibyte Addition and Subtraction – 1's and 2's Complements – Assembly and Disassembly of a Byte – Sum of a Series – Block Data Transfer – Finding the Smallest and the Biggest Number in an Array – Arranging a Series of Numbers in Descending and Ascending Order.			CIA II		
V	Peripheral Devices and Interfacing – Address Space Partitioning – Memory and I/O Interfacing – Data Transfer Schemes – Interrupts of Intel 8085 – Interfacing Devices and I/O Devices – I/O Ports – Programmable Peripheral Interface – Delay Subroutines – Seven-Segment Displays – Types of Seven-Segment Displays – Interfacing Seven-segment Displays.			CIA II		

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2.3 Teaching - Learning Process

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TEACHING PLAN (2018-2019)

Department	COMPUTER SCIENCE	Class	I MCA	Semester	II	
Subject title	PRINCIPLES OF OPERATING SYSTEMS	Subject code	17MCA2C10	No. of hours per week	4	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Operating Systems Objectives and Functions – Operating System and User / Computer Interface, Operating System as a Resource Manager: Evolution of Operating Systems – #Serial Processing#, Sample Batch Systems, Multi Programmed Batch Systems, Time Sharing Systems	D.I. George Analarethinaam DIG.	12	CIA I	Dy	
II	Process Description, Process Control – Processes and Threads, Concurrency – Principles of Concurrency, Mutual Exclusion – Deadlock Prevention, Deadlock Detection, Deadlock Avoidance. Memory Management – #Memory Management Requirements# – Fixed Partitioning, Placement algorithm, Relocation in a Paging System – Sample Segmentation		10	CIA I		
III	Virtual Memory – Paging – Address Translation in a Paging System, Segmentation – Organization, Address Translation in a Segmentation System		6	CIA -I		



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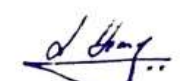
2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

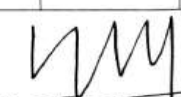
NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
III	Combined Paging and Segmentation – #Virtual Memory# – Operating System Software – Fetch Policy, Placement Policy and Replacement Policy.	DIN	4	CIA II	Dy.	
IV	Scheduling – Types of Scheduling, Scheduling Algorithms, Scheduling Criteria, FIFO, Round Robin, Shortest Process Next, Shortest Remaining Time, Feedback Scheduling – Fairshare Scheduling.		10			
V	I/O Management and disk scheduling – Organization of the I/O function – the Evaluation of the I/O Function, Logical Structure of the I/O Function, I/O Buffering, Disk I/O – Disk Scheduling Algorithms, Disk Cache. File Management – Files, File Management Systems, Secondary Storage Management – #File Allocation#.		10			


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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

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2.3 Teaching - Learning Process

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TEACHING PLAN (2018-2019)

Department	COMPUTER SCIENCE	Class	I MCA	Semester	II	
Subject title	DATABASE SYSTEMS	Subject code	17MCA2C11	No. of hours per week	4	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Introduction to Database System Applications – Database System verses File System- Views of Data – Data Models – Database Languages- Database Users and Administrator – ER Model : Basic concepts – Constraints – Keys - #ER-Diagram# - Weak Entity Sets.	S. SYED IBRAHIM (SI)	10	CIA - I		
II	Relational Model Structure- Relational Algebra-Tuple Relational Calculus - Domain Relational Calculus. Relational Databases: SQL- Basic Structure-Set Operations-Aggregate Functions-Nested Subqueries - Views-Modification of Database-Joined Relations- Data definition language - #Query By Example#.		10	CIA - I		
III	Relational Database Design: Pitfalls in Relational Database Design. Functional Dependencies: Basic Definitions- Trivial and Nontrivial Dependencies-Closure of a set of Dependencies – Non-loss Decomposition - First, Second and Third Normal Forms-Boyce/Codd Normal Form- Multivalued Dependencies and Fourth Normal Form-#Join Dependencies#.		11	CIA - I CIA - II		



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2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	Transactions: Concepts – State – Concurrent Executions – Serializability – Testing for Serializability, Concurrency Control: Lock-Based Protocols-Timestamp Based Protocols – Validation Based Protocols, Recovery System: Failure Classification – Storage Structure – Recovery.	SC	11	CIA - II		
V	Database System Architectures: Centralized and C/S Architectures-Server System Architectures-Distributed Systems. Distributed Database: Homogeneous and Heterogeneous Database-Distributed Data Storage-Distributed Transactions-Commit Protocols – Concurrency Control in Distributed Database - #Heterogeneous Distributed System#.		10	CIA II		

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2.3 Teaching - Learning Process

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TEACHING PLAN (2018-2019)

Department	COMPUTER SCIENCE	Class	MCA (Aided)	Semester	V	
Subject title	Core Based Elective-IV: Parallel Processing	Subject code	14MCA5CE	No. of hours per week	4	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Introduction to Parallel Processing – Evolution of Computer Systems – Parallelism in Uniprocessor Systems – Parallel Computer Structures – Architectural Classification Schemes – Parallel Processing Applications.	Dr. D. J. GEORGE AMALARETHINAM (DIO)	11	CIA Test II		
II	Memory and Input-Output Subsystems – Hierarchical Memory Structure – Virtual Memory System – Memory Allocation and Management – Cache Memories and Management – Input-Output Subsystems.		10			
III	Principles of Pipelining and Vector Processing – Pipelining : An Overlapped Parallelism – Instruction and Arithmetic Pipelines – Principles of Designing Pipelined Processors – Vector Processing Requirements.		10			



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2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	Vectorization and Optimization methods – Parallel Languages for Vector Processing – Design of Vectorizing Compiler – Optimization of Vector Functions – SIMD Array Processors – SIMD Interconnection Networks – Associative Array Processing.	DIG	10	CIA Test - II		
V	Multiprocessors Architecture and Programming – Functional Structures – Interconnection Networks – Parallel Memory Organizations – Multiprocessor Operating Systems – Language Features to Exploit Parallelism – Multiprocessor Scheduling Strategies.		11			

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