



**CARMEL COLLEGE (AUTONOMOUS) MALA**  
**Re-Accredited by NAAC with 'A' Grade (4<sup>th</sup> Cycle)**  
Thrissur Dt. Kerala-680732, [www.carmelcollegemala.ac.in](http://www.carmelcollegemala.ac.in), 0480-2890247



## CRITERION 1

### CURRICULAR ASPECTS

**1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the curriculum**

*submitted to*



THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

## B Sc Chemistry

Area	Sem	Course code	Course
Employability	I	CHE1B01	Theoretical and Inorganic Chemistry- I
	IV	CHE4B05(P)	Inorganic Chemistry Practical-I
	V	CHE5B06	Inorganic Chemistry-III
	V	CHE5B08	Physical Chemistry-II
	VI	CHE6B09	Inorganic Chemistry-IV
	VI	CHE6B10	Organic Chemistry-III
	VI	CHE6B12	Advanced and Applied Chemistry
	VI	CHE6B13(E3)	Medicinal and Environmental Chemistry
	VI	CHE6B14(P)	Physical Chemistry Practical
	VI	CHE6B15(P)	Organic Chemistry Practical
	VI	CHE6B16(P)	Inorganic Chemistry Practical-II
	VI	CHE6B17(P)	Inorganic Chemistry Practical-III
	VI	CHE6B18(Pr)	Project Work
	V	CHE5D01	Environmental Chemistry
	I	CHE1C01	Quantum Mechanics and Computational Chemistry
	I	CHE1C03	Structure, And Reactivity Of Organic Compounds
	I	CHE1C04	Thermodynamics, Kinetics And Catalysis
	I	CHE1C02	Elementary inorganic chemistry
I	CHE1L01	Inorganic chemistry practical I	
I	CHE1L02	Organic chemistry Practical I	
I	CHE1L03	Physical chemistry practical I	
II	CHE2C05	Group Theory And Chemical Bonding	
II	CHE2C06	Coordination Chemistry	
II	CHE2C07	Reaction Mechanism In Organic Chemistry	
II	CHE2C08	Electrochemistry, Solid State Chemistry, And Statistical Thermodynamics	
II	CHE2L04	Inorganic chemistry practical II	
II	CHE2L05	Organic chemistry Practical II	
II	CHE2L06	Physical chemistry practical II	
III	CHE3C09	Molecular spectroscopy	
III	CHE3C10	Organometallic And Bioinorganic Chemistry	
III	CHE3C11	Reagents And Transformations In Organic Chemistry	
III	CHE3E01	Synthetic Organic Chemistry	
III	CHE3L07	Inorganic chemistry practical III	
III	CHE3L08	Organic chemistry Practical III	
III	CHE3L09	Physical chemistry practical III	
IV	CHE4C12	Instrumental Methods of Analysis	
IV	CHE4E06	Natural Products And Polymer Chemistry	
IV	CHE4E08	Organometallic Chemistry	
IV	CHE4L10	Inorganic chemistry practical IV	



	IV	CHE4L11	Organic chemistry Practical IV
	IV	CHE4L12	Physical chemistry practical IV
	IV	CHE4P01	Research Project
Skill Development	I	CHE1B01	Theoretical and Inorganic Chemistry- I
	IV	CHE4B05(P)	Inorganic Chemistry Practical-I
	V	CHE5B06	Inorganic Chemistry-III
	V	CHE5B08	Physical Chemistry-II
	VI	CHE6B09	Inorganic Chemistry-IV
	VI	CHE6B10	Organic Chemistry-III
	VI	CHE6B12	Advanced and Applied Chemistry
	VI	CHE6B13(E3)	Medicinal and Environmental Chemistry
	VI	CHE6B14(P)	Physical Chemistry Practical
	VI	CHE6B15(P)	Organic Chemistry Practical
	VI	CHE6B16(P)	Inorganic Chemistry Practical-II
	VI	CHE6B17(P)	Inorganic Chemistry Practical-III
	VI	CHE6B18(Pr)	Project Work
	V	CHE5D01	Environmental Chemistry
	I	CHE1C01	Quantum Mechanics and Computational Chemistry
	I	CHE1C03	Structure, And Reactivity Of Organic Compounds
	I	CHE1C04	Thermodynamics, Kinetics And Catalysis
	I	CHE1C02	Elementary inorganic chemistry
	I	CHE1L01	Inorganic chemistry practical I
	I	CHE1L02	Organic chemistry Practical I
	I	CHE1L03	Physical chemistry practical I
	II	CHE2C05	Group Theory And Chemical Bonding
	II	CHE2C06	Coordination Chemistry
	II	CHE2C07	Reaction Mechanism In Organic Chemistry
	II	CHE2C08	Electrochemistry, Solid State Chemistry, And Statistical Thermodynamics
	II	CHE2L04	Inorganic chemistry practical II
	II	CHE2L05	Organic chemistry Practical II
	II	CHE2L06	Physical chemistry practical II
	III	CHE3C09	Molecular spectroscopy
	III	CHE3C10	Organometallic And Bioinorganic Chemistry
	III	CHE3C11	Reagents And Transformations In Organic Chemistry
	III	CHE3E01	Synthetic Organic Chemistry
	III	CHE3L07	Inorganic chemistry practical III
	III	CHE3L08	Organic chemistry Practical III
	III	CHE3L09	Physical chemistry practical III
	IV	CHE4C12	Instrumental Methods of Analysis
	IV	CHE4E06	Natural Products And Polymer Chemistry
	IV	CHE4E08	Organometallic Chemistry
	IV	CHE4L10	Inorganic chemistry practical IV
	IV	CHE4L11	Organic chemistry Practical IV
	IV	CHE4L12	Physical chemistry practical IV



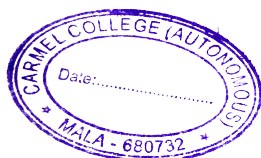
	IV	CHE4P01	Research Project
Entrepreneurship	V	CHE5B06	Inorganic Chemistry-III
	V	CHE5D01	Environmental Chemistry
Professional Ethics	I	CHE1B01	Theoretical and Inorganic Chemistry- I
Environment	V	CHE5B06	Inorganic Chemistry-III
	VI	CHE6B13(E3)	Medicinal and Environmental Chemistry
	IV	CHE4C04	Physical and Applied Chemistry
	V	CHE5D01	Environmental Chemistry
Sustainability	V	CHE5B06	Inorganic Chemistry-III
	VI	CHE6B12	Advanced and Applied Chemistry
	VI	CHE6B13(E3)	Medicinal and Environmental Chemistry
	IV	CHE4C04	Physical and Applied Chemistry
	V	CHE5D01	Environmental Chemistry

### B Sc Zoology

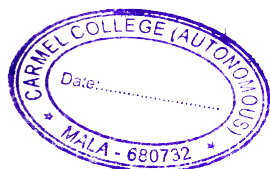
Employability	V	ZOL5B09T	Sequence Analysis, Phylogenetics, Proteomics, Genomics
Entrepreneurship	V	ZOL6B14E02T	Mariculture, Pisciculture
Skill Development	V	ZOL5B07T	Genetic Engineering, Industrial Microbiology, Medical Microbiology
Professional Ethics	V	ZOL5B09T	Ethics in Science
Gender	V	ZOL5D01T	Ethical Aspects of Sex, Gender Discrimination
Human Values	V	ZOL5D01T ZOL6B11T	Abortion, PNDT Act, Female Foeticide Abortion, Prevention of Female foeticide - ethical issues and laws (Mention-PNDT Act).
Environment	VI	ZOL6B12T	Environmental and Conservation Biology
Sustainability	VI	ZOL6B12T	Social issues and Environment

### B Voc Accounting and Taxation

Employability	I	SDC1AT01	Business Management
	I	SDC1AT02	Income Tax – I
	I	SDC1AT03	Financial Accounting
	I	SDC1AT04(P)	Office Automation Tools-Lab
	I	SDC1AT05(P)	Listening and Speaking Skills in English
	II	SDC2AT06	Income Tax – II
	II	SDC2AT09(P)	Financial Accounting using Tally – Lab Income Tax Assessment
	III	SDC3AT11	Marketing Management
	III	SDC3AT12	Management Accounting Advance Excel – Lab



	III III III III IV IV IV IV IV IV V V V V V	SDC3AT13 SDC3AT14(P) SDC3AT15(P) SDC3AT16(P) SDC4AT17 SDC4AT18 SDC4AT19 SDC4AT20(P) SDC4AT21(P) SDC4AT22(Pr) SDC5AT25 SDC5AT26 SDC5AT27 SDC5AT28 E5 SDC5AT29(P)	Marketing Management – Case Study Direct Taxation and TDS – Lab Auditing Cost Accounting Goods and Service Tax Cost Accounting – Lab GST – Lab Internship for one month Corporate Accounting Banking and Financial Services Accounting Standards Human Resource Management Peachtree – Lab Payroll Management – Lab Internship
Entrepreneurship	IV	A13	EDP
Skill Development	I I II II II III III III IV IV IV IV V V	SDC1AT04(P) SDC1AT05(P) SDC2AT08 SDC2AT09(P) SDC2AT10(Pr) SDC3AT12 SDC3AT14(P) SDC3AT16(P) SDC4AT19 SDC4AT20(P) SDC4AT21(P) SDC5AT29(P) SDC5AT30(P)	Office Automation Tools-Lab Listening and Speaking Skills in English Business Communication Financial Accounting using Tally – Lab Mini Project Work Marketing Management Advance Excel – Lab Direct Taxation and TDS – Lab Goods and Service Tax Cost Accounting – Lab GST – Lab Peachtree – Lab Payroll Management - Lab
Professional Ethics	I IV V V V	SDC1AT01 SDC4AT17 SDC5AT23 - E3 SDC5AT24 SDC5AT27	Business Management Auditing Organizational Behavior Business Regulation Accounting Standards
Human Values	V	SDC5AT27	Human Resource Management
Sustainability	II II III III IV IV VI VI	SDC2AT07 SDC2AT10(Pr) SDC3AT12 SDC3AT15(P) SDC4AT17 SDC4AT22(Pr) SDC6AT32(P) SDC6AT33(Pr)	Business Research Methods Mini Project Work Marketing Management Marketing Management – Case Study Auditing Internship for one month Project Internship



## B A Political Science

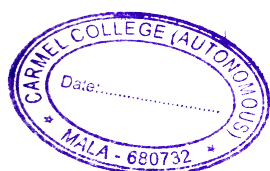
Professional Ethics	V	POL5B01	Plagiarism
Gender	V VI V IV	POL5BO3, POL6BO1 POL5 D02 POL4BO2	Marginalized groups and Social movements Pandita Ramabhai : Emancipation of Women Atrocities against women Marginalised Sections
Human Values	V	POL5 D02	Human Rights in India
Environment	V  II VI	POL5BO3  POL2BO2 POL6BO3	Environmental Movements in Kerala – Silent Valley and Plachimada Environmentalism Environmental Issues: Climatic change, Global warming
Sustainability	V	POL5BO3	Environmental Movements in Kerala – Silent Valley and Plachimada

### B Sc Applied Physics

Employability	3	APH5B06	Computational physics
Employability	3	A11	Python
Employability	3	A12	Sensors and transducers
Employability	4	A13	Data communication and fiber optics
Employability	4	A14	Microprocessor architecture and programs
Employability	6	APH6B14	Microprocessor and microcomputer systems
Entrepreneurship	5	APH5B09	Electronics (analog & digital)
Skill Development	5	APH5B09	Electronics (analog & digital)
Environment	5	PHY5D01	Non conventional energy sources
Employability		CSC1C01	Computer Fundamentals
Employability	2	CSC2C02	Fundamentals of System Software, Networks and DBMS
Employability	4	CSC4C04	Data Structures Using C
Skill Development	4	CSC4C05	Programming lab:C and Data Structures

### B.Sc. Botany

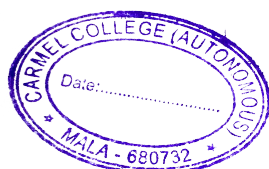
Employability	V	BOT5D02T	Applied Botany
	VI	BOT6B11T	Biotechnology, Molecular Biology & Bioinformatics
	VI	BOT6B14T	Genetics and Crop Improvement
Entrepreneurship	V	BOT5B08T	Tissue culture, Horticulture, Economic Botany & Ethno botany
	VI	BOT6B10T	Genetics & Plant Breeding
Professional Ethics	IV	BOT4B04T	Methodology and Perspectives in Plant Science
Gender	IV	AUD4E06	Gender Studies (Audit Course)
Human Values	III	AC2PCC	Intellectual Property Rights (Audit Course)
Environment	VI	BOT6B13T	Environmental Science



Sustainability	II	2E02	Disaster Management(Audit Course)
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<b>M.Sc. Botany</b>			
Employability	III	BOT3C09	Biotechnology and Bioinformatics
Entrepreneurship	II	BOT2C05	Cytogenetics, Genetics, Biostatistics, Plant Breeding and Evolution
Skill Development	I	BOT1C03	Angiosperm Anatomy, Angiosperm Embryology, Palynology and Lab Techniques
	I	BOT1L02	Practicals of Microbiology, Plant Pathology, Angiosperm Anatomy, Angiosperm Embryology, Palynology and Lab Techniques.
	II	BOT2L03	Practicals of Cell Biology, Molecular Biology, Biophysics and Cytogenetics
	II	BOT2L04	Practicals of Genetics, Biostatistics, Plant Breeding, Plant Ecology, Conservation Biology, Phytogeography and Forest Botany
	III	BOT3L06	Practicals of Plant Resources, Biotechnology and Bioinformatics
Professional Ethics	I	ACIAEC	Research Methodology
Human Values	II	AC2PCC	IPR
Environment	II	BOT2C06	Plant Ecology, Conservation Biology, Phytogeography and Forest Botany
Sustainability	III	BOT3C08	Angiosperm Morphology, Angiosperm Taxonomy and Plant Resources

<b>B A History</b>			
Employability	I	HIS1CO1	Editing
Skill Development	I	HIS1CO1	Research in Practice I & II
	IV	HIS4EO1	Writing Research Paper & Projects; Citations Archaeology in the Field; Post-Field Research
Professional Ethics	I	HIS1CO1	Plagiarism & Ghost Writing; Plagiarism check



Gender	II	HIS2CO1	Gender History
	II	HIS2CO2	Women & Gender History in Kerala
	II	HIS2CO3	Positions of Women in Medieval India
	III	HIS3CO1	Women under Colonialism; Colonial Economy and women's work
	III	HIS3EO4	Gender & Labour State in Medieval India
	III	HIS3EO6	Gender Relations in Medieval Kerala; Matriliney & Patriliney; Heroines in <i>Manipravalakavyas</i> : Brahmanical Patriarchy & Gender Positions in Kerala
	IV	HIS4CO1	Gender & Rise of Women's Movement in Contemporary India
	IV	HIS4CO2	Women in Pre-Modern South India
Human Values	III	HIS3CO2	Gandhian Discourse; Ambedkarite Intervention
Environment	II	HIS2CO2	Human Ecology & Settlement
Sustainability	IV	HIS4CO1	Environmental Movements in India

### B Voc BFSI

Employability	I	SDC1BF01	Business Management
	I	SDC1BF02	Principles and Practices of Banking
	I	SDC1BF03	Financial Accounting
	I	SDC1BF04(P)	Office Automation Tools-Lab
	I	SDC1BF05(P)	Listening and Speaking Skills in English
	II	SDC2BF06	Banking Service Management
	II	SDC2BF09(P)	Financial Accounting using Tally – Lab
	III	SDC3BF11	Life Insurance operations
	III	SDC3BF12	Banking and Financial Services
	III	SDC3BF13	Management Accounting
	III	SDC3BF14(P)	Advance Excel – Lab
	III	SDC3BF15(P)	Financial Analysis and Budgetary Control Lab
	III	SDC3BF16(P)	Life Insurance – Lab
	IV	SDC4BF17	Auditing
	IV	SDC4BF18	Banking Services and Micro Finance
	IV	SDC4BF19	Goods and Service Tax
	IV	SDC4BF20(P)	Micro Finance Operations – Lab
	IV	SDC4BF21(P)	GST – Lab
	IV	SDC4BF22(Pr)	Internship for one month
	V	SDC5BF23	Marketing Management
V	SDC5BF25	Corporate Accounting	
V	SDC5BF26	Retail Banking	
V	SDC5BF27	Cost Accounting	
V	SDC5BF28 E5	Human Resource Management	
V	SDC5BF29(P)	Peachtree – Lab	
V	SDC5BF30(P)	Cost Accounting – Lab	



	VI	SDC6BF32(P)	Internship
Entrepreneurship	IV	A13	EDP
Skill Development	I	SDC1BF04(P)	Office Automation Tools-Lab
	I	SDC1BF05(P)	Listening and Speaking Skills in English
	II	SDC2BF09(P)	Financial Accounting using Tally – Lab
	II	SDC2BF10(Pr)	Mini Project Work
	III	SDC3BF14(P)	Advance Excel – Lab
	III	SDC3BF15(P)	Financial Analysis and Budgetary Control – Lab
	IV	SDC4BF19	Goods and Service Tax
	IV	SDC4BF20(P)	Micro Finance Operations - Lab
	IV	SDC4BF21(P)	GST- Lab
	V	SDC5BF29(P)	Peachtree – Lab
	V	SDC5BF30(P)	Cost Accounting – Lab
Professional Ethics	I	SDC1BF01	Business Management
	II	SDC2BF08	Organizational Behaviour
	IV	SDC4BF17	Auditing
	V	SDC5BF24	Legal and Regulatory aspects of banking
Human Values	V	SDC5BF27	Human Resource Management
Sustainability	II	SDC2BF07	Business Research Methods
	II	SDC2BF10(Pr)	Mini Project Work
	III	SDC3BF12	Marketing Management
	IV	SDC4BF17	Auditing
	IV	SDC4BF22(Pr)	Internship for one month
	VI	SDC6BF32(P)	Internship
	VI	SDC6BF33(Pr)	Project

### B Sc Mathematics

<b>Employability</b>	I	MTS1B01	Basic Logic and Number Theory
	I	MTS1C01	Mathematics — 1
	IV	MTS4B04	Linear Algebra
	IV	MTS4C04	Mathematics — 4
	V	MTS5B07	Numerical Analysis
	V	MTS5B08	Linear Programming
	V	MTS5D04	Mathematics for Decision Making
	VI	MTS6B12	Calculus of Multi variable
	VI	MTS6B13	Differential Equations
VI	MTS6B14(E01)	Graph Theory	

### B A Functional English

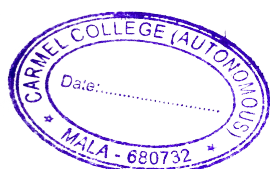
Entrepreneurship	I	FEN1B01	Core Course-I: Communication Skills in English
	IV	FEN4B06	Core Course VI



			Business English
Skill Development	I	FEN1B01	Core Course-I: Communication Skills in English
	IV	FEN4B06	Core Course VI Business English
	V	FEN5B07	Core Course VII Translation Studies
	VI	FEN6B13	Core Course-XIII Creative Writing
	VI	FEN6B17	Project Work
Gender	I	FEN1(2)CO1	Complementary Course-I Literatures in English: From Chaucer to the Present
	III	FEN4(3)CO1	Complementary Course III- Literatures in English: American and Postcolonial
	IV	AUD2E04	Gender Studies
	V	FEN5B09	Core Course IX Theatre For Communication
Human Values	II	FEN1(2)CO2	Complementary Course-II Cultural Studies: Perspectives in Culture
	III	AUD2E03	Human Rights
	IV	FEN4(3)CO2	Complementary Course-IV Cultural Studies: Cultural Spaces
	V	FEN5B09	Core Course IX Theatre For Communication
	Environment Sustainability	I	AUD1E01
II		AUD2E02	Disaster Management

### BA SOCIOLOGY

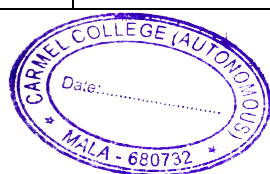
	Semester	Course code	Course/topic name related
Employability	VI	SGY6B12	Social Psychology
	VI	SGY6B13	Population Studies
	VI	SGY6B16	Social Informatics
	VI	SGY6B17	Mass Media and Society
	VI	SGY6B20	Crime and Society
	III	SGY4B05	Introduction to social research
Entrepreneurship	III	SGY6B17	Mass Media and Society
	VI	SGY6B20	Crime and Society



	VI	SGY6B16	Social Informatics
Gender	IV	SGY5B09	Women in contemporary society
Professional Ethics	III	SGY4B05	Introduction to social research
Gender	IV	SGY5B09	Women in contemporary society
Human Values	IV	SGY5B07	Social Anthropology
Environment	VI	SGY5B10	Environment and society

## MA INTEGRATED SOCIOLOGY

Employability	IV	SOC4IB05	Rural and Urban Sociology
	V	SOC5IB07	Women and Society
	V	SOC5IB08	Basics of Psychology
	V	SOC6IB12	Media Culture and Society
	IX	SOC9IB23	Sociology of Development
	IX	SOC9IE02	Sociology and Social Work
	IX	SOC9IE03	Counselling: Theory and Practice
	X	SOC10IE05	Sociology of Food
	X	SOC10IE06	Community Health and Health Administration
Entrepreneurship	X	SOC10IE05	Sociology of Food
Skill Development	IV	SOC4IB04	Basics of Social Research
	IV	SOC5IB06	Introduction to Social Anthropology
	IV	SOC5ID01	Life Skill Development
	VII	SOC7II05	Ability Enhancement Course
	VII	SOC9IE03	Counselling: Theory and Practice
	X	SOC10IE05	Sociology of Food



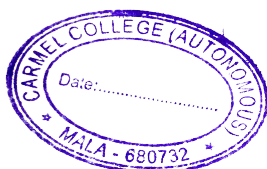
	IX	SOC9IE01	PROJECT PLANNING AND IMPLEMENTATION
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Professional Ethics	IV	SOC4IB04	Basics of Social Research
Gender	V	SOC5IB07	Women in contemporary society
Human Values	IV	SOC5ID01	Life Skill Development
Environment	VIII	SOC8IB19	Environment and Society
Sustainability	VIII	SOC8IB19	Environment and Society

Sustainability	VI	SGY5B10	Environment and society
Skill Development	V	SGY6 B15	Life Skill Education
	IV	SGY5B07	Introduction to Social Anthropology
	V	SGY6 B15	Life Skill Education
	V	SGY5D01	Life Skill Development (open course)

### M A SOCIOLOGY

Employability	I	SOC1 C04	Rural and Tribal Societies in India
	III	SOC3IB04	Social Stratification and Inequalities: An Introduction
	II	SOC2 C07	Urban Sociology
	III	SOC3 E03	Sociology of Health
Entrepreneurship	X (Elective)	SOC10IE06	Community Health and Health Administration
	IV	SOC4 E08	Sociology of Media and Communication
Skill development	I	SOC1 C02	Research Methodology of Sociology

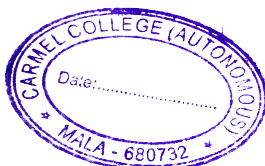


	I	SOC 1A01	Ability Enhancement Programme (Audit Course)
	III	SOC3 E05	Project Planning and Preparation
	III	SOC4 E 06	Guidance and Counselling
	III	SOC4 P01	Guidelines and Format for MA Sociology Dissertation
Professional Ethics	I	SOC1 C02	Research Methodology of Sociology
Gender	II	SOC2C08	Gender studies
	V	SOC5IB07	Women And Society

Human Values	I	SOC1 C04	Rural and Tribal Societies in India
Environment	II	SOC3E01	Environmental Sociology
Sustainability	III	SOC3E01	Environmental Sociology

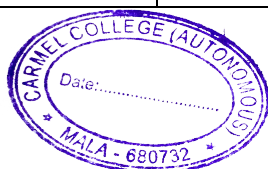
### General Course: Hindi

Employability	II	HIN2A08 (2)	Technical Terminology, Official Letters, Translation
Skill Development	II	HIN2A08 (1)	Grammar And Translation
	II	HIN2A08 (2)	Technical Terminology, Official Letters, Translation
Gender	II,	HIN2A08 (2)	Poetry
	II	HIN2A08 (3)	Poetry
	III	HIN3A09	Poetry
Human Values	I	HIN1A07 (1)	Prose And Drama
	III	HIN3A09	Novel And Short Stories
	IV	HIN4A10 HIN1A07	Prose Forms in Hindi Literature
	II	HIN2A08 (2)	Poetry, Correspondence And Translation
	I	HIN1A07 (3)	Prose And One Act Plays
	II	HIN2A08 (3)	Poetry And Short Stories
Environment	II	HIN2A08 (2)	Poetry
	II	HIN2A08 (3)	Poetry
	III	HIN3A09	Poetry

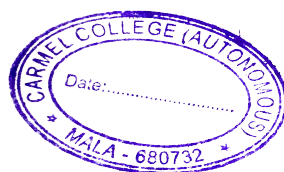


## B Voc Agriculture

Employability	I	SDC1AG02	Fundamentals of Horticulture
Employability	III	SDC3AG11	Plant Tissue Culture and Biotechnology
Employability	IV	SDC4AG17	Protected Cultivation of Horticultural Crops
Entrepreneurship	II	SDC2AG06	Plantation Crops, Spices and Fruits
Entrepreneurship	IV	SDC4AG19	Livestock Farming
Entrepreneurship	V	SDC5AG24E3	Food and Dairy Microbiology
Entrepreneurship	V	SDC5AG25	Commercial Vegetable Production
Skill Development	I	SDC1AG01	Fundamentals of Agronomy
Skill Development	I	SDC1AG03	Fundamentals of Soil Science
Skill Development	II	SDC2AG07	Fundamentals of Seed Technology
Skill Development	III	SDC3AG12	Integrated Pest Management in Crops
Skill Development	III	SDC3AG13	Fundamentals of Agricultural Engineering
Skill Development	IV	SDC4AG18	Weed Management and Fodder Crop Production
Skill Development	V	SDC5AG23E1	Environmental Microbiology and Biotechnology
Skill Development	V	SDC5AG26	Agricultural Enterprises
Professional Ethics	IV	A14	Intellectual Property Rights
Environment Sustainability	III	A11	Biodiversity – Scope and Relevance
Environment Sustainability	IV	A13	Natural Resource Management
Environment Sustainability	V	SDC5AG27	Fundamentals of Organic Farming



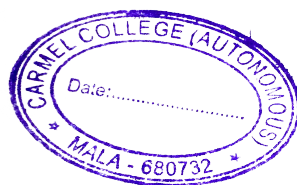
<b>B Voc Software Development</b>			
Employability	I	SDC1IT02	Programming in C
Employability	I	SDC1IT03 (P)	Programming in C - Lab
Employability	I	SDC1IT04 (P)	Web Programming - Lab
Employability	I	SDC1IT05 (P)	Office Automation & Design – Lab
Employability	II	SDC2IT06	Programming in Java
Employability	II	SDC2IT07	Relational Database Management System
Employability	II	SDC2IT08(P)	Programming in Java - Lab
Employability	II	SDC2IT09(P)	RDBMS –Lab
Employability	II	SDC2IT10(Pr)	Mini Project (Including Industrial Visit)
Employability	III	A11	Basic Mathematics and General Awareness
Employability	III	A12	Professional Business Skills
Employability	III	SDC3IT11	Software Engineering
Employability	III	SDC3IT12	Programming in Python
Employability	III	SDC3IT13	Computer Networking Concepts
Employability	III	SDC3IT14(P)	Data Structures Using Java Lab
Employability	III	SDC3IT15(P)	Programming in Python – Lab
Employability	III	SDC3IT16(P)	Computer Networking – Lab
Employability	IV	SDC4IT17	Operating Systems
Employability	IV	SDC4IT18	Computer Security
Employability	IV	SDC4IT19E1	J2EE
Employability	IV	SDC4IT20(P)	Operating Systems and Computer Security – Lab
Employability	IV	SDC4IT21E1(P)	J2EE Lab
Employability	IV	SDC4IT22(Pr)	Project Work/Internship (including IV)
Employability	V	SDC5IT20(P)	.NET and Database -lab
Employability	V	SDC5IT21(P)	Android and python programming-lab
Employability	V	SDC5IT19	E3: Mobile Software Development using Android
Employability	V	SDC5IT18	E2: Python Programming
Employability	V	GEC5LS15	Life Skill Development
Employability	VI	SDC6IT22(pr)	Intership and Project
Employability	V	SDC5IT17	.NET and Database Administration
Entrepreneurship	V	GEC5HR13	Human resource Management
Entrepreneurship	IV	A13	Entrepreneurship Development
Skill Development	I	SDC1IT03 (P)	Programming in C - Lab
Skill Development	I	SDC1IT04 (P)	Web Programming - Lab
Skill Development	I	SDC1IT05 (P)	Office Automation & Design – Lab
Skill Development	I	SDC2IT08(P)	Programming in Java - Lab
Skill Development	II	SDC2IT09(P)	RDBMS –Lab
Skill	II	SDC2IT10(Pr)	Mini Project (Including Industrial Visit)



Development			
Skill Development	III	SDC3IT14(P)	Data Structures Using JavaLab
Skill Development	III	SDC3IT15(P)	Programming in Python – Lab
Skill Development	III	SDC3IT16(P)	Computer Networking – Lab
Skill Development	IV	SDC4IT20(P)	Operating Systems and Computer Security – Lab
Skill Development	IV	SDC4IT21E1(P)	J2EE Lab
Skill Development	V	SDC5IT20(P)	.NET and Database –lab
Skill Development	V	SDC5IT21(P)	Android and python programming-lab
Skill Development	V	SDC5IT19	E3: Mobile Software Development using Android
Skill Development	V	SDC5IT18	E2: Python Programming
Skill Development	V	SDC5IT17	.NET and Database Administration
Skill Development	VI	SDC6IT22(pr)	Intership and Project
Skill Development	IV	SDC4T22(Pr)	Project Work/Internship (including IV)
Professional Ethics	IV	A12	Professional Business Skills
Environment	IV	A14	Public Health, Sanitation & Safety

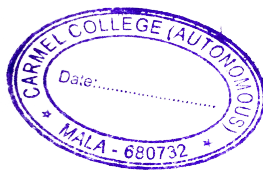
### **M Voc Software Development**

Employability	1	GEC1SD01	Communication Skills Development
Employability	1	SDC1SD01	Object Oriented Programming with Java and SQL
Employability	1	SDC1SD02	PHP Programming
Employability	1	SDC1SD03	Introduction to Mobile Application Development and Web Technologies
Employability	1	SDC1SD04	Android App Development for Beginners
Employability	1	SDC1SDL1	LAB I : PHP Programming – Lab
Employability	1	SDC1SDL2	LAB 2:Software Lab I (Android I,Java &SQL)
Employability	II	GEC2SD02	Professional Skills Development (Training Programme)
Employability	II	SDC2SD05	Database and Backend Technologies
Employability	II	SDC2SD06	Advanced Java Programming
Employability	II	SDC2SD07	Android App Development - Advanced
Employability	II	SDC2SDL3	LAB 3: Advanced Java – Lab
Employability	II	SDC2SDL4	LAB 4 : Software Lab II (Android II and Database)(LAB)
Employability	II	SDC2SDL5	LAB 5 : Mini Project/Internship [Android App Development]





Employability	III	GEC3RM04	Research Methodology
Employability	III	SDC3SD08	Programming with Swift
Employability	III	GEC3SD03E1	Mobile and Wireless Security
Employability	III	SDC3SD10	Machine Learning
Employability	III	GEC3SD04E8	Programming with Python
Employability	III	SDC3SDL6	LAB 6:Android App Development-Lab
Employability	III	SDC3SDL7	LAB 7: Software Lab III (iOS and Swift)
Employability	IV	SDC4SDTP	Term Paper
Employability	IV	SDC4SDL8	LAB 8: Internship & Project
Entrepreneurship	II	SDC2SDL5	LAB 5 : Mini Project/Internship [Android App Development]
Entrepreneurship	IV	SDC4SDL8	LAB 8: Internship & Project
Skill Development	1	SDC1SDL1	LAB I : PHP Programming – Lab
Skill Development	1	SDC1SDL2	LAB 2:Software Lab I (Android I,Java &SQL)
Skill Development	II	SDC2SDL3	LAB 3: Advanced Java – Lab
Skill Development	II	SDC2SDL4	LAB 4 : Software Lab II (Android II and Database)(LAB)
Skill Development	II	SDC2SDL5	LAB 5 : Mini Project/Internship [Android App Development]
Skill Development	III	SDC3SDL6	LAB 6:Android App Development-Lab
Skill Development	III	SDC3SDL7	LAB 7: Software Lab III (iOS and Swift)
Skill Development	IV	SDC4SDTP	Term Paper
Skill Development	IV	SDC4SDL8	LAB 8: Internship & Project
Professional Ethics	III	GEC3RM04	Research Methodology
Environment	III	GEC3SD03E1	Mobile and Wireless Security



  
 PRINCIPAL  
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 MALA

## General Courses Malayalam

Employability	IV III	MAL4A10 MAL3A09	Malayalasaahithyam -4 Malayalasaahithyam -3
Entrepreneurship	IV III	MAL4A10 MAL3A09	Malayalasaahithyam -4 Malayalasaahithyam -3
Skill Development	I(BA/BSc) II III IV I(Bcom) II I(Otherpattern) II	MAL1A07(1) MAL2A08(1) MAL3A09 MAL4A10 MAL1A07(2) MAL2A08(2) MAL1A07(3) MAL2A08(3)	Malayalasaahithyam- 1 Malayalasaahithyam -2 Malayalasaahithyam -3 Malayalasaahithyam -4 Malayalasaahithya padanam -1 Malayalasaahithya padanam -2 Malayabhashayum saahithyavum -1 Malayabhashayum saahithyavum -2
Professional Ethics	I(BA/BSc) II III IV I(Bcom) II I(Otherpattern) II	MAL1A07(1) MAL2A08(1) MAL3A09 MAL4A10 MAL1A07(2) MAL2A08(2) MAL1A07(3) MAL2A08(3)	Malayalasaahithyam- 1 Malayalasaahithyam -2 Malayalasaahithyam -3 Malayalasaahithyam -4 Malayalasaahithya padanam -1 Malayalasaahithya padanam -2 Malayabhashayum saahithyavum -1 Malayabhashayum saahithyavum -2
Gender	I (BA/BSc) II III IV I(Bcom) II I(Otherpattern) II	MAL1A07(1) MAL2A08(1) MAL3A09 MAL4A10 MAL1A07(2) MAL2A08(2) MAL1A07(3) MAL2A08(3)	Malayalasaahithyam- 1 Malayalasaahithyam -2 Malayalasaahithyam -3 Malayalasaahithyam -4 Malayalasaahithya padanam -1 Malayalasaahithya padanam -2 Malayabhashayum saahithyavum -1 Malayabhashayum saahithyavum -2
Human values	I II III IV I II I II	MAL1A07(1) MAL2A08(1) MAL3A09 MAL4A10 MAL1A07(2) MAL2A08(2) MAL1A07(3) MAL2A08(3)	Malayalasaahithyam- 1 Malayalasaahithyam -2 Malayalasaahithyam -3 Malayalasaahithyam -4 Malayalasaahithya padanam -1 Malayalasaahithya padanam -2 Malayabhashayum saahithyavum -1 Malayabhashayum saahithyavum -2
Environment	I (BA/BSc) II III IV I(Bcom) II I(Otherpattern)	MAL1A07(1) MAL2A08(1) MAL3A09 MAL4A10 MAL1A07(2) MAL2A08(2) MAL1A07(3)	Malayalasaahithyam- 1 Malayalasaahithyam -2 Malayalasaahithyam -3 Malayalasaahithyam -4 Malayalasaahithya padanam -1 Malayalasaahithya padanam -2 Malayabhashayum saahithyavum -1

	II	MAL2A08(3)	Malayabhashayum sahithyavum -2
Sustainability	I (BA/BSc) II III IV I(Bcom) II I(Otherpattern) II	MAL1A07(1) MAL2A08(1) MAL3A09 MAL4A10 MAL1A07(2) MAL2A08(2) MAL1A07(3) MAL2A08(3)	Malayalashahithyam- 1 Malayalashahithyam -2 Malayalashahithyam -3 Malayalashahithyam -4 Malayalashahithya padanam -1 Malayalashahithya padanam -2 Malayabhashayum sahithyavum -1 Malayabhashayum sahithyavum -2

<b>M A English</b>			
Gender	I M.A. English	ENG1CO1	Core Course-I: British Literature from Chaucer to Eighteenth Century
Gender	I M.A. English	ENG1CO2	Core Course-II: British Literature: Nineteenth Century
Gender	I M.A. English	ENG1CO3	Core Course-III: History of English Language
Gender	I M.A. English	ENG1CO4	Core Course-IV: Indian Literature in English
Gender	I M.A. English	ENG1AO1	Audit Course-I: A01 Writing Skills
Gender	II M.A. English	ENG2CO5	Core Course-V: Twentieth Century British Literature up to 1940
Gender	II M.A. English	ENG2CO6	Core Course-VI: Literary Criticism and Theory – Part1 (Up to New Criticism)
Gender	II M.A. English	ENG2CO7	Core Course-VII: American Literature
Gender	II M.A. English	ENG2CO8	Core Course-VIII: Postcolonial Writings
Gender	II M.A. English	ENG2A02	Audit Course-II: Translation Theory and Practice
Gender	III M.A. English	ENG3CO9	Core Course-IX: Twentieth Century British Literature: Post 1940
Gender	III M.A. English	ENG3C10	Core Course-X: Literary Criticism and Theory – Part 2
Gender	III M.A. English	ENG3EO7	Elective Course– II: World Drama

Gender	IV M.A. English	ENG4C11	Core Course-XI: English Literature in the 21 <sup>st</sup> Century
Gender	IV M.A. English	ENG4C12	Core Course XII: Dissertation/ Project
Gender	IV M.A. English	ENG4E14	Elective Course– III: Indian English Fiction
Gender	IV M.A. English	ENG4E18	Elective Course– IV: Malayalam Literature in English Translation
Gender	I M.A. English	ENG1CO1	Core Course-I: British Literature from Chaucer to Eighteenth Century
Gender	I M.A. English	ENG1CO2	Core Course-II: British Literature: Nineteenth Century
Gender	I M.A. English	ENG1CO4	Core Course-IV: Indian Literature in English
Human Values	I M.A. English	ENG1CO1	Core Course-I: British Literature from Chaucer to Eighteenth Century
Human Values	I M.A. English	ENG1CO2	Core Course-II: British Literature: Nineteenth Century
Human Values	I M.A. English	ENG1CO3	Core Course-III: History of English Language
Human Values	I M.A. English	ENG1CO4	Core Course-IV: Indian Literature in English
Human Values	I M.A. English	ENG1AO1	Audit Course-I: A01 Writing Skills
Human Values	II M.A. English	ENG2CO5	Core Course-V: Twentieth Century British Literature up to 1940
Human Values	II M.A. English	ENG2CO6	Core Course-VI: Literary Criticism and Theory – Part1 (Up to New Criticism)
Human Values	II M.A. English	ENG2CO7	Core Course-VII: American Literature
Human Values	II M.A. English	ENG2CO8	Core Course-VIII: Postcolonial Writings
Human Values	II M.A. English	ENG2A02	Audit Course-II: Translation Theory and Practice
Human Values	III M.A. English	ENG3CO9	Core Course-IX: Twentieth Century British Literature: Post 1940

Human Values	III M.A. English	ENG3C10	Core Course-X: Literary Criticism and Theory – Part 2
Human Values	III M.A. English	ENG3EO7	Elective Course– II: World Drama
Human Values	IV M.A. English	ENG4C11	Core Course-XI: English Literature in the 21 <sup>st</sup> Century
Human Values	IV M.A. English	ENG4C12	Core Course XII: Dissertation/ Project
Human Values	IV M.A. English	ENG4E14	Elective Course– III: Indian English Fiction
Human Values	IV M.A. English	ENG4E18	Elective Course– IV: Malayalam Literature in English Translation
Human Values	I M.A. English	ENG1CO1	Core Course-I: British Literature from Chaucer to Eighteenth Century
Human Values	I M.A. English	ENG1CO2	Core Course-II: British Literature: Nineteenth Century
Human Values	I M.A. English	ENG1CO4	Core Course-IV: Indian Literature in English
Environment	I M.A. English	ENG1CO1	Core Course-I: British Literature from Chaucer to Eighteenth Century
Environment	I M.A. English	ENG1CO2	Core Course-II: British Literature: Nineteenth Century
Environment	I M.A. English	ENG1CO3	Core Course-III: History of English Language
Environment	I M.A. English	ENG1CO4	Core Course-IV: Indian Literature in English
Environment	I M.A. English	ENG1AO1	Audit Course-I: A01 Writing Skills
Environment	II M.A. English	ENG2CO5	Core Course-V: Twentieth Century British Literature up to 1940
Environment	II M.A. English	ENG2CO6	Core Course-VI: Literary Criticism and Theory – Part I (Up to New Criticism)
Environment	II M.A. English	ENG2CO7	Core Course-VII: American Literature

Environment	II M.A. English	ENG2CO8	Core Course-VIII: Postcolonial Writings
Environment	II M.A. English	ENG2A02	Audit Course-II: Translation Theory and Practice
Environment	III M.A. English	ENG3CO9	Core Course-IX: Twentieth Century British Literature: Post 1940
Environment	III M.A. English	ENG3C10	Core Course-X: Literary Criticism and Theory – Part 2
Environment	III M.A. English	ENG3EO7	Elective Course– II: World Drama
Environment	IV M.A. English	ENG4C11	Core Course-XI: English Literature in the 21 <sup>st</sup> Century
Environment	IV M.A. English	ENG4C12	Core Course XII: Dissertation/ Project
Environment	IV M.A. English	ENG4E14	Elective Course– III: Indian English Fiction
Environment	IV M.A. English	ENG4E18	Elective Course– IV: Malayalam Literature in English Translation
Environment	I M.A. English	ENG1CO1	Core Course-I: British Literature from Chaucer to Eighteenth Century
Environment	I M.A. English	ENG1CO2	Core Course-II: British Literature: Nineteenth Century
Environment	I M.A. English	ENG1CO4	Core Course-IV: Indian Literature in English

<b>B. COM</b>			
Employability	I	BCM1B01	Business Management
Employability	I	BCM1C01	Managerial Economics
Employability	II	BCM2B02	Financial Accounting
Employability	II	BCM2C02	Marketing Management
Employability	III	BCM3A11	Basic Numerical Methods
Employability	III	BCM3BO3	Business Regulations
Employability	III	BCM3BO4	Corporate Accounting
Employability	IV	BCM4A14	Banking and Insurance
Employability	IV	BCM4B05	Cost Accounting
Employability	IV	BCM4BO6	Corporate Regulations
Employability	IV	BCM4C04	Quantitative Techniques for Business

Employability	V	BCM5B07	Accounting for Management
Employability	V	BCM5B09	Income Tax Law and Accounts
Employability	VI	BCM6B12	Income Tax & GST
Employability	VI	BCM6B13	Auditing and Corporate Governance
Employability	V	BCM5B10	Financial Markets and Services
Employability	V	BCM5B11	Financial Management
Employability	VI	BCM6B14	Fundamentals of Investment
Employability	VI	BCM6B15	Financial Derivatives
Employability	V	BCM5B10	Co-operative Theory and Practice
Employability	V	BCM5B11	Legal Environment for Co-operatives
Employability	VI	BCM6B14	International Co-operative Movement
Employability	VI	BCM6B15	Co-operative Management and Administration
Employability	V	BCM5B10	Computer Applications in Business
Employability	V	BCM5B11	Business Information Systems
Employability	VI	BCM6B14	Office Automation Tools
Employability	VI	BCM6B15	Computerised Accounting with Tally
Entrepreneurship	IV	BCM4A13	Entrepreneurship Development
Skill Development	III	BCM3A12	Professional Business Skills
Professional ethics	V	BCM5B08	Business Research Methods
Human values	III	BCM3C03	Human Resource Management
Employability	III	BCM3A12	Professional Business Skills
Employability	V	BCM5B08	Business Research Methods
Employability	III	BCM3C03	Human Resource Management
<b>M. COM</b>			
Employability	I	MCM1C03	Quantitative Techniques for Business Decisions
Employability	I	MCM1C05	Advanced Management Accounting
Employability	II	MCM2C06	Advanced Corporate Accounting
Employability	II	MCM2C07	Advanced Strategic Management
Employability	II	MCM 2C08	Strategic Cost Accounting
Employability	II	MCM2C10	Management Science
Employability	III	MCM3C11	Financial Management
Employability	III	MCM3C12	Income Tax: Law, Practice and Tax Planning I
Employability	III	MCM3EF01	Investment Management
Employability	III	MCM3EF02	Financial Markets and Institutions
Employability	IV	MCM4C14	Financial Derivatives and Risk Management
Employability	IV	MCM4C15	Income Tax: Law, Practice and Tax Planning II
Employability	IV	MCM4EF04	Advanced Strategic Financial Management
Employability	II	MCM2C09	Innternational Business
Employability	IV	MCM4EF03	International Finance

Employability	I	MCM1C02	Corporate Governance and Business Ethics
Employability	III	MCM3C13	Research Methodology
Employability	I	MCM1C01:	Business Environment and Policy
Employability	I	MCM1C04	Management Theory and Organisational Behavior
Entrepreneurship	II	MCM2C09	International Business
Entrepreneurship	IV	MCM4EF03	International Finance
Professional Ethics	I	MCM1C02	Corporate Governance and Business Ethics
Environment	I	MCM1C01:	Business Environment and Policy
Human Values	I	MCM1C04	Management Theory and Organisational Behavior

<b>M Sc Mathematics</b>			
<b>Employability</b>	I	MTH1C05	Number theory
	II	MTH2C09	Ode and calculus of variations
	II	MTH2C10	Operations research
	III	MTH3C11	Multivariable calculus and geometry
	III	MTH3C14	PDE and Integral Equations
	III	MTH3E01	Coding theory
	III	MTH3E02	Cryptography
	IV	MTH4E11	Graph theory
<b>B. B. A</b>			
Employability	II	BBA2B02	FINANCIAL ACCOUNTING
Entrepreneurship	IV	BBA4A13	ENTREPRENEURSHIP DEVELOPMENT
Skill Development	III	BBA3A12	PROFESSIONAL BUSINESS SKILLS
Professional Ethics	V	BBA5B08	BUSINESS RESEARCH METHODS
Human Values	V	BBA5B07	HUMAN RESOURCES MANAGEMENT