MA ARABIC

SEMESTER 1
Advanced Arabic Structure
Modern & Contemporary Arabic Poetry
Modern Arabic Fiction
Arabic enabled ICTs in Academic Writing
Audit Course - Book Review and Presentation

SEMESTER 2
Trends and movements in Arabic Linguistics, Rhetorics & Prosody
Classical & Medieval Arabic Literature
Creative Writing For media
Audit Course - translation

SEMESTER 3
Contemporary Arab World
Linguistics, Rhetorics & Advanced Grammar
Drama and Interaction skills
Research Methodology (Elective I)

SEMESTER 4
Indian Arabic Literature
Modern Essays and Biography
Advanced Translation & Simultaneous Interpretation
Elective: Modern Arabic Literature in Magrib Countries
Dissertation & Viva Voce
MA ECONOMICS

SEMESTER 1

Microeconomics: Theory & Applications I
Macroeconomics: Theory & Policy I
Quantitative Methods for economic analysis I
Indian Economy: Problems and Policies
Ability Enhancement Course

SEMESTER 2

Microeconomics: Theory & Applications II
Macroeconomics: Theory & Policy II
Quantitative Methods for economic analysis II
Public Finance: Theory & Practice
Professional Competency Course

SEMESTER 3

International Trade
Basic Economics
Economic Growth And Development
Banking Theory and Practice

SEMESTER 4

International Finance
Financial Markets
Business Economics
Research Methodology & Computer Applications
Project Report
Viva Voce
MSc CHEMISTRY

SEMESTER 1

Quantum Mechanics & computational Chemistry
Elementary Inorganic Chemistry
Structure & Reactivity of Organic Compounds
Thermodynamics, Kinetics & Catalysis
Inorganic Chemistry Practical I
Organic Chemistry Practical I
Physical Chemistry Practical I
Ability Enhancement Course

SEMESTER 2

Group Theory & Chemical Bonding
Co-ordination Chemistry
Organic Reaction Mechanisms
Inorganic Chemistry Practical II
Organic Chemistry Practical II
Physical Chemistry Practical II
Professional Competency Course

SEMESTER 3

Electro Chemistry, Solid state Chemistry & Statistical Thermodynamics
Organometallic & Bioinorganic Chemistry
Reagents & Transformations in Organic Chemistry
Synthetic Organic Chemistry(Elective)
Inorganic Chemistry Practical III
Organic Chemistry Practical III
Physical Chemistry Practical III

SEMESTER 4

Advanced Topics in Chemistry
Instrumental methods of Analysis
Natural Products & Polymers( Elective)
Research Project
Viva Voce
Inorganic Chemistry Practical IV
Organic Chemistry Practical IV
Physical Chemistry Practical IV
M.COM

SEMESTER 1

Business Environment & Policy
Corporate governance & Business Ethics
Quantitative Techniques for Business Decisions
Management theory & Organizational Behaviour
Advanced Management Accounting
Ability Enhancement Course

SEMESTER 2

Advanced corporate Accounting
Advanced strategic Management
Advanced cost accounting
International Business
Management Science
Professional Competency Course

SEMESTER 3

Financial Management
Research Methodology in Commerce
Income tax Law & Practice
Financial Markets and Institutions
Security Analysis & Portfolio Management

SEMESTER 4

Strategic Financial Management
Financial Derivatives & Risk Management
Cost Management
Tax planning & Management
Project report and Viva Voce
MSc Food Technology

SEMESTER 1

Food Microbiology
Food Microbiology Practical
Food Chemistry & Analysis
Food Chemistry Practical
Research Methodology & Statistics
Basic Principles of Engineering
Basic Principles of Engineering & Practical
In-Plant Training

SEMESTER 2

Biochemistry & Nutrition
Food Chemistry, Biochemistry & Nutrition Practical
Food Storage and Infestation Control
Industrial Microbiology and Biochemical Engineering
Industrial Microbiology and Biochemical Engineering Practical
Food Engineering
Food Engineering Practical
Computer Software Packaging in Food Industry

SEMESTER 3

Food Storage and Infestation Control
Industrial Microbiology & Biochemical Engineering
Industrial Microbiology & Biochemical Engineering Practical
Technology of Cereals, Legumes and Oil seeds
Packaging Technology
Packaging Technology Practical
Technology of Cereals, Legumes and Oil seeds Practical

SEMESTER 4

Food Plant and Quality Management
Technology of Meat, Fish and Poultry products
Technology of Meat, Fish and Poultry products practical
Elective- Technology of Milk and Milk Products
Elective- Sugar & Confectionery Technology
Elective- Technology of Milk and Milk Products Practical
Elective- Sugar & Confectionery Technology Practical
Project Work
In-Plant Training
MSc MATHEMATICS

SEMESTER 1

Algebra I
Linear algebra
Real Analysis I
Number Theory
Discrete Mathematics
Ability Enhancement Course

SEMESTER 2

Algebra II
Real Analysis II
Topology
ODE & Calculus of Variations
Operations Research
Professional Competency Course

SEMESTER 3

Multi variable calculus & Geometry
Complex Analysis
Functional Analysis
PDE & Integral Equations
Project
Viva Voce

SEMESTER 4

Representation Theory
Advanced Functional Analysis
Graph Theory
Differential Geometry
MSc ZOOLOGY

SEMESTER 1

Biochemistry & Cytogenetics
Biophysics and Biostatistics
Ecology & Ethology
Ability Enhancement Course

SEMESTER 2

Physiology
Molecular Biology
Systematics and Evolution
Practical 1- Biochemistry, Biophysics & Biostatistics
Practical 2- Physiology, Molecular biology & Cytogenetics
Practical 3- Systematics, Evolution, Ecology & Ethology
Professional Competency Course

SEMESTER 3

Immunology
Developmental Biology & Endocrinology
Entomology I: Morphology & Taxonomy

SEMESTER 4

Microbiology & Biotechnology
Entomology II: Anatomy & Physiology
Entomology III: Agricultural Medical & Forensic Entomology
Practical 4- Immunology, Developmental Biology & Endocrinology, Microbiology, Biotechnology & Micro Techniques
Practical 5: Entomology I & II
Practical 6: Entomology III
Project Work
Viva Voce
BA ARABIC & ISLAMIC HISTORY

I SEMESTER

Core course : Basic Arabic Grammar (AR)
Complementary Course : History & Culture of Medieval India
Common: (English) 1. Transactions: Essential English Language Skills
2. Ways with Words: Literature in English
   : (Arabic) Language Skills in Arabic
   : (Malayalam) Malayala Sahithyam - I
   : (Hindi) Prose & Drama

II SEMESTER

Core course : Advanced Arabic Grammar (AR)
Complementary Course : History of Ottoman Empire
Common: (English) 1. Writing for Academic and Professional Success
2. Zeitgeist: Readings on Contemporary Culture
   : (Arabic) Appreciating Arabic Literature
   : (Malayalam) Malayala Sahityam-II
   : (Hindi) Grammar, Correspondence Translation

III SEMESTER

Core course : History of Arabic Literature I
   Historical Survey of West Asia(632-1517CE)(IH)
   Science & Culture In Islam(IH)
Common: (English) Signatures : Expressing the self
   : (Arabic) Literature in Arabic
   : (Malayalam) Malayala Sahithyam-III
   : (Hindi) Poetry in Hindi

IV SEMESTER

Core course : History of Arabic Literature II
   Grammar and Morphology Paper I
   Ottoman Turkey (IH)
Common: (English) Spectrum: Literature and Contemporary Issues
   : (Arabic) Culture & Civilization
   : (Malayalam) Malayala Sahityam-IV
   : (Hindi) Novels & Short Stories
V SEMESTER

Core course: Classical Poetry
Grammar, Rhetoric Prosody Paper
History and culture of Medieval India (IH)
Modern Arab World (Elective)

Project: Study Tour Project Work (Arabic)

Open Course: Socio Economic Concept of Islam

VI SEMESTER

Core course: Modern Prose & Poetry
History and Culture of Modern India
History & Culture of Kerala Muslims (I.H)
Spoken Arabic (Elective)

Project: Study Tour and Project Work (IH)
BA ECONOMICS

I SEMESTER

Core course: Micro Economics I
Complementary Course: Indian Constitution and Politics: Basic Features & Governmental structures
Common: (English) 1. Transactions: Essential English Language Skills
          2. Ways with Words: Literature in English
             : (Arabic) Language Skills in Arabic
             : (Malayalam) Malayala Sahithyam - I
             : (Hindi) Prose & Drama

II SEMESTER

Core course: Macro Economics-I
Complementary Course: Modern Indian History (1857 to the present)
Common: (English) 1. Writing for Academic and Professional Success
          2. Zeitgeist: Readings on Contemporary Culture
             : (Arabic) Appreciating Arabic Literature
             : (Malayalam) Malayala Sahityam-II
             : (Hindi) Grammar, Correspondence Translation

III SEMESTER

Core course: 1. Quantitative Methods for Economic Analysis-I
             2. Modern Banking & Insurance
Complementary Course: 1. Indian Constitution and Politics Political Dynamics
                      2. Indian National Movement-Gandhian Phase (1917-1947)
Common: (English) Signatures: Expressing the self
          : (Arabic) Literature in Arabic
          : (Malayalam) Malayala Sahithyam-III
          : (Hindi) Poetry in Hindi
IV SEMESTER

Core course: Quantitative Methods for Economic Analysis - II
Computer Application for Economic Analysis

Complementary Course:
1. Indian Constitution & Politics Federal Dynamics & Decentralization
2. Selected Themes in Contemporary India

Common: (English) Spectrum: Literature and Contemporary Issues
(Arabic) Culture & Civilization
(Malayalam) Malayala Sahityam-IV
(Hindi) Novels & Short Stories

V SEMESTER

Core course: Macro Economics - I
India's Economic Development: National Regional
Economics of Financial Market
International Economics

Open Course: International Trade and Finance

VI SEMESTER

Core course: Macro Economics - II
Mathematical Economics
Public Finance
Development Economics
Health Economics (Elective)
Project Work
## B A ENGLISH

### I SEMESTER

<table>
<thead>
<tr>
<th>Core course :</th>
<th>Introducing Literature</th>
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<tbody>
<tr>
<td>Complementary Course :</td>
<td>1. Introduction to audio visual communication</td>
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<td>2. Introduction to Communication and Journalism</td>
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<td>Common: (English)</td>
<td>1. Transactions: Essential English Language Skills</td>
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<td>2. Ways with Words: Literature in English</td>
</tr>
<tr>
<td>(Arabic)</td>
<td>Language Skills in Arabic</td>
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<td>Malayala Sahithyam - I</td>
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<td>(Hindi)</td>
<td>Prose &amp; Drama</td>
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### II SEMESTER

<table>
<thead>
<tr>
<th>Core course :</th>
<th>Appreciating Poetry</th>
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<tr>
<td>Complementary Course :</td>
<td>1. Broadcasting</td>
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<td>2. History of Mass Media II</td>
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<tr>
<td>Common: (English)</td>
<td>1. Writing for Academic and Professional Success</td>
</tr>
<tr>
<td></td>
<td>2. Zeitgeist: Readings on Contemporary Culture</td>
</tr>
<tr>
<td>(Arabic)</td>
<td>Appreciating Arabic Literature</td>
</tr>
<tr>
<td>(Malayalam)</td>
<td>Malayala Sahityam-II</td>
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<tr>
<td>(Hindi)</td>
<td>Grammar, Correspondence Translation</td>
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### III SEMESTER

<table>
<thead>
<tr>
<th>Core course :</th>
<th>Reading Fiction</th>
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<tr>
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<td>Reading Drama</td>
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<tr>
<td>Complementary Course :</td>
<td>Corporate communication and Advertising</td>
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<td>Fundamentals of Cinema</td>
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<td>Common: (English)</td>
<td>Signatures : Expressing the self</td>
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<tr>
<td>(Arabic)</td>
<td>Literature in Arabic</td>
</tr>
<tr>
<td>(Malayalam)</td>
<td>Malayala Sahithyam-III</td>
</tr>
<tr>
<td>(Hindi)</td>
<td>Poetry in Hindi</td>
</tr>
</tbody>
</table>
IV SEMESTER

Core course:
Methodology of Humanities
Modern English Literature

Complementary Course:
1. News Reporting and Editing
2. New Media

Common: (English)
Spectrum: Literature and Contemporary Issues
: (Arabic)
Culture & Civilization
: (Malayalam)
Malayala Sahityam-IV
: (Hindi)
Novels & Short Stories

V SEMESTER

Core course:
Indian writing in English
Language and Linguistics
Methodology of Literature
Informatics
Project

Open Course:
Applied language skills

VI SEMESTER

Core course:
Women's Writing
Literary Criticism and Theory
Literature in English-American and post colonial
Writing for the Media
Elective: World Classics in Translation
Project
B A HISTORY

I SEMESTER

Core course : 1 The trends in historiography
Complementary Course : Introductory Economics I
Common: (English) 1. Transactions: Essential English Language Skills
                  2. Ways with Words: Literature in English
                  : (Arabic) Language Skills in Arabic
                  : (Malayalam) Malayala Sahithyam - I
                  : (Hindi) Prose & Drama

II SEMESTER

Core course : Trends in Indian Historiography
Complementary Course : Indian Constitution and Politics : Basic Features
                        & Governmental Structures
Common: (English) 1. Writing for Academic and Professional Success
                  2. Zeitgeist: Readings on Contemporary Culture
                  : (Arabic) Appreciating Arabic Literature
                  : (Malayalam) Malayala Sahityam-II
                  : (Hindi) Grammar, Correspondence Translation

III SEMESTER

Core course : Informatics and History
              History of Early India
Complementary Course : 1. Essentials of Economics - Money Banking Finance and Trade
                  2 Indian Constitution and Politics: Political Dynamics
Common: (English) Signatures : Expressing the self
                  : (Arabic) Literature in Arabic
                  : (Malayalam) Malayala Sahithyam-III
                  : (Hindi) Literature in Hindi
IV SEMESTER

Core course:
- History of the Medieval World
- Methodology of Historical writing

Complementary Course:
1. Essentials of Economics - Indian Economy
2. Indian Constitution and Politics: Federal Dynamics and Decentralization

Common:
- (English) Spectrum: Literature and Contemporary Issues
- (Arabic) Culture & Civilization
- (Malayalam) Malayala Sahityam-IV
- (Hindi) Poetry in Hindi

V SEMESTER

Core course:
- Kerala Society and Culture: Ancient & Medieval
- History of Medieval India
- History of Modern India
- History of Modern World

Open Course:
- Heritage Studies

VI SEMESTER

Core course:
- History of Modern Kerala
- History of Contemporary India
- History of Contemporary Kerala
- Gender studies
- Course work-Dissertation
- Indian Epigraphy
B Sc CHEMISTRY

I SEMESTER

Core course :  Theoretical Inorganic Chemistry-I
Practical-IN-Inorganic Chemistry-I

Complementary Course :  1 Mathematics I
                        2 Properties of matter & Thermodynamics
                        3 Practical I (Physics)

Common: (English)  1. Transactions: Essential English Language Skills
                  2. Ways with Words: Literature in English

: (Arabic)  Language Skills in Arabic
: (Malayalam) Malayala Sahityam - I
: (Hindi)  Prose & Drama

II SEMESTER

Core course :  Theoretical Inorganic Chemistry-II
Practical-II (Inorganic Chemistry)

Complementary Course :  Mathematics II
                        2.Optics Laser Electronics
                        Practical II (Physics)

Common: (English)  1. Writing for Academic and Professional Success
                  2. Zeitgeist: Readings on Contemporary Culture

: (Arabic)  Appreciating Arabic Literature
: (Malayalam) Malayala Sahityam-II
: (Hindi)  Grammar, Correspondence Translation

III SEMESTER

Core course :  Physical Chemistry I
Practical-III (Inorganic Chemistry Practical-1)

Complementary Course :  1.Mathematics III
                        2.Optics, Laser, Electronics & communication
                        3. Practical I (Physics)

Common: (English)  Signatures : Expressing the self

: (Arabic)  Literature in Arabic
: (Malayalam) Malayala Sahityam-III
: (Hindi)  Poetry in Hindi
IV SEMESTER

Core course: Organic Chemistry I
Practical-IV (Inorganic Chemistry Practical-I)

Complementary Course: 1. Mathematics-IV
2. Electricity, Magnetism & Nuclear Physics

Common: (English) Spectrum: Literature and Contemporary Issues
: (Arabic) Culture & Civilization
: (Malayalam) Malayala Sahityam-IV
: (Hindi) Novels & Short Stories

V SEMESTER

Core course: Inorganic Chemistry III
Organic Chemistry II
Physical Chemistry II
Practical-V (Physical Chemistry Practical)
Practical-VI (Organic Chemistry Practical)

Open Course: Environmental Chemistry
Course Work/Project/Industrial Visit

VI SEMESTER

Core course: 1. Inorganic Chemistry IV
2. Organic Chemistry III
3. Physical Chemistry III
4. Advanced Applied Chemistry
Practical- VII (Inorganic Chemistry Practical-II)
Practical-VIII (Inorganic Chemistry Practical-III)
Elective Course (Polymer Chemistry)
Project Viva Voce
# BSc FOOD TECHNOLOGY

## I SEMESTER

<table>
<thead>
<tr>
<th>Core course:</th>
<th>Perspectives of Food Science &amp; Technology I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complementary Course:</td>
<td>1 General Chemistry</td>
</tr>
<tr>
<td></td>
<td>2. Chemistry Practical</td>
</tr>
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<td></td>
<td>3 Properties of matter Thermodynamics</td>
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<td></td>
<td>4. Physics Practical</td>
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<tr>
<td>Common: (English)</td>
<td>1. Transactions: Essential English Language Skills</td>
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<td>2. Ways with Words: Literature in English</td>
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<tr>
<td>: (Arabic)</td>
<td>Language Skills in Arabic</td>
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<tr>
<td>: (Malayalam)</td>
<td>Malayala Sahithyam - I</td>
</tr>
<tr>
<td>: (Hindi)</td>
<td>Communication Skills in Hindi</td>
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## II SEMESTER

<table>
<thead>
<tr>
<th>Core course:</th>
<th>Food Microbiology</th>
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<tbody>
<tr>
<td>Complementary Course:</td>
<td>1 Optic, Laser &amp; Electronics</td>
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<tr>
<td></td>
<td>2 Physical Chemistry</td>
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<tr>
<td></td>
<td>3 Physics Practical</td>
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<td>4 Chemistry Practicals</td>
</tr>
<tr>
<td>Common: (English)</td>
<td>1. Writing for Academic and Professional Success</td>
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<tr>
<td></td>
<td>2. Zeitgeist: Readings on Contemporary Culture</td>
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<tr>
<td>: (Arabic)</td>
<td>Appreciating Arabic Literature</td>
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<td>: (Malayalam)</td>
<td>Malayala Sahityam-II</td>
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<td>: (Hindi)</td>
<td>Literature in Hindi</td>
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## III SEMESTER

<table>
<thead>
<tr>
<th>Core course:</th>
<th>Technology of Food Preservation (TFP)</th>
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<tbody>
<tr>
<td>Complementary Course:</td>
<td>1. Organic Chemistry</td>
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<tr>
<td></td>
<td>2. Chemistry Practical</td>
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<tr>
<td></td>
<td>Optics Laser, Electronics &amp; Communication</td>
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<td>Practical -I E (Physics)</td>
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<td>Common Course:</td>
<td>Basic Numerical Skills</td>
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<td>Entrepreneurship Development Programme</td>
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</table>
IV SEMESTER

Core course: Food Chemistry and Analytical Instrumentation

Complementary Course:
1. Physical & Applied Chemistry
2. Chemistry Practical
3. Electricity, Magnetism & Nuclear Physics
4. Practical - IE (Physics)

Common Course:
General Informatics
Nutrition and Health

V SEMESTER

Core course: Food Microbiology II (FMII)
Cereals, Pulses & Oil Seed Technology
Technology of Animal Foods (TAF)
Packaging Technology

Open Course: Food & Health

VI SEMESTER

Core course: Technology of Fruits, Vegetables, Spices & Plantation Crops(TFDPC)
Dairy Technology
Food Safety, Food Laws & Regulations
Practical TAF
Practical TFCPC
Food Engineering (Elective Courses)
Project/Inplant Training
B Sc MATHEMATICS

I SEMESTER

Core course : 1. Basic Logic and Number Theory
Complementary Course : 1. Introductory Statistics
                      2. Properties of matter & Thermodynamics
                      3. Practical-I (Physics)
Common: (English) 1. Transactions: Essential English Language Skills
               2. Ways with Words: Literature in English
               : (Arabic) Language Skills in Arabic
               : (Malayalam) Malayala Sahithyam - I
               : (Hindi) Prose & Drama

II SEMESTER

Core course : Calculus of Single Variable - I
Complementary Course : 1 Probability Distribution
                      2 Optics, Laser & Electronics
                      3. Practical- I (Physics)
Common: (English) 1. Writing for Academic and Professional Success
               2. Zeitgeist: Readings on Contemporary Culture
               : (Arabic) Appreciating Arabic Literature
               : (Malayalam) Malayala Sahityam-II
               : (Hindi) Grammar, Correspondence Translation

III SEMESTER

Core course : 03. Calculus and analytic geometry
Complementary Course : 1. Statistical inference
                       2. Optics, Laser, Electronics & communication
                       3. Practical - I (Physics)
Common: (English) Signatures : Expressing the self
               : (Arabic) Literature in Arabic
               : (Malayalam) Malayala Sahithyam-III
               : (Hindi) Poetry in Hindi
### IV SEMESTER

<table>
<thead>
<tr>
<th>Core course</th>
<th>04. Theory of Equations, Matrices and vector Calculus</th>
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<tbody>
<tr>
<td>Complementary Course</td>
<td>1. Applied Statistics</td>
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<tr>
<td></td>
<td>2. Electricity, Magnetism &amp; Nuclear Physics</td>
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<tr>
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<td>3. Practical-II (Physics)</td>
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<tr>
<td>Common: (English)</td>
<td>Spectrum: Literature and Contemporary Issues</td>
</tr>
<tr>
<td>: (Arabic)</td>
<td>Culture &amp; Civilization</td>
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<tr>
<td>: (Malayalam)</td>
<td>Malayala Sahityam-IV</td>
</tr>
<tr>
<td>: (Hindi)</td>
<td>Novels &amp; Short Stories</td>
</tr>
</tbody>
</table>

### V SEMESTER

<table>
<thead>
<tr>
<th>Core course</th>
<th>05. Vector Calculus</th>
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<tr>
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<td>06. Abstract Algebra</td>
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<td>07. Basic Mathematical Analysis</td>
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<td>08. Differential Equations</td>
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<td>09. Project</td>
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<td>Open Course</td>
<td>10. Mathematics for Social Sciences</td>
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### VI SEMESTER

<table>
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<tr>
<th>Core course</th>
<th>11. Real Analysis</th>
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<tr>
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<td>12. Complex Analysis</td>
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<td>13. Numerical Methods</td>
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<td>14. Number theory and Linear Algebra</td>
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<td>15. Linear Programming</td>
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<td>16. Project</td>
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</table>
B Sc PHYSICS

I SEMESTER

Core course: Methodology of Science and Basic Mechanics
Core Course Practical I

Complementary Course: Mathematics I
Computer Science I
Complementary Course Practical I

Common: (English)
1. Transactions: Essential English Language Skills
2. Ways with Words: Literature in English

: (Arabic) Language Skills in Arabic
: (Malayalam) Malayala Sahityam-I
: (Hindi) Prose Drama

II SEMESTER

Core course: Mechanics
Practical I

Complementary Course: Mathematics II
Computer Science II
Complementary Course Practical II

Common: (English)
1. Writing for Academic and Professional Success
2. Zeitgeist: Readings on Contemporary Culture

: (Arabic) Appreciating Arabic Literature
: (Malayalam) Malayala Sahityam-II
: (Hindi) Grammar, Correspondence Translation

III SEMESTER

Core course: Mechanics
Core Course Practical I

Complementary Course: Mathematics III
Computer Science III
Complementary Course Practical III

Common: (English)
Signatures : Expressing the self

: (Arabic) Literature in Arabic
: (Malayalam) Malayala Sahithyam-III
: (Hindi) Poetry in Hindi
IV SEMESTER

Core course: Electrodynamics I
Core Course Practical I

Complementary Course: Mathematics-IV
Computer Science
Complementary Course practical IV

Common: (English) Spectrum: Literature and Contemporary Issues
: (Arabic) Culture & Civilization
: (Malayalam) Malayala Sahityam-IV
: (Hindi) Novels& Short Stories

V SEMESTER

Core course: Electrodynamics II
Quantum Mechanics
Physical Optics and Modern Optics
Electronics (Analogue and Digital)
Core Course Practical V - Practical II
Core Course Practical VI - Practical III
Project (Including Study Tour)

Open Course: Elementary Medical Physics

VI SEMESTER

Core course: Thermal and Statistical Physics
Solid State Physics, Spectroscopy and Laser Physics
Nuclear Physics, Particle Physics and Astrophysics
(Elective) Materials Science & Thin Films
Core Course Practical VII – Practical II
Core Course Practical VIII – Practical III
Project (Including Study Tour)
# B Sc ZOOLOGY

## I SEMESTER

<table>
<thead>
<tr>
<th>Core course</th>
<th>Animal Diversity -Non-chordata.Part-I</th>
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<tbody>
<tr>
<td>Practical related to theory core course</td>
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<tr>
<td>Complementary Course</td>
<td>1 Angiosperm Anatomy Microtechnique</td>
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<td></td>
<td>2 Botany Practical</td>
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<td>3 General Chemistry</td>
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<td>4 Chemistry Practicals</td>
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<td>Common: (English)</td>
<td>1. Transactions: Essential English Language Skills</td>
</tr>
<tr>
<td></td>
<td>2. Ways with Words: Literature in English</td>
</tr>
<tr>
<td>: (Arabic)</td>
<td>Language Skills in Arabic</td>
</tr>
<tr>
<td>: (Malayalam)</td>
<td>Malayala Sahithyam - I</td>
</tr>
<tr>
<td>: (Hindi)</td>
<td>Prose &amp; Drama</td>
</tr>
</tbody>
</table>

## II SEMESTER

<table>
<thead>
<tr>
<th>Core course</th>
<th>Animal Diversity-Chordata Part-II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practical related to theory core course</td>
<td></td>
</tr>
<tr>
<td>Complementary Course</td>
<td>1 Cryptogams, Gymnosperms &amp; Plant Pathology</td>
</tr>
<tr>
<td></td>
<td>2 Botany Practical</td>
</tr>
<tr>
<td></td>
<td>3 Physical Chemistry</td>
</tr>
<tr>
<td></td>
<td>4 Chemistry Practicals</td>
</tr>
<tr>
<td>Common: (English)</td>
<td>1. Writing for Academic and Professional Success</td>
</tr>
<tr>
<td></td>
<td>2. Zeitgeist: Readings on Contemporary Culture</td>
</tr>
<tr>
<td>: (Arabic)</td>
<td>Appreciating Arabic Literature</td>
</tr>
<tr>
<td>: (Malayalam)</td>
<td>Malayala Sahityam-II</td>
</tr>
<tr>
<td>: (Hindi)</td>
<td>Grammar, Correspondence &amp; Translation</td>
</tr>
</tbody>
</table>

## III SEMESTER

<table>
<thead>
<tr>
<th>Core course</th>
<th>Animal Diversity-Chordata Part – I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practical related to theory core course</td>
<td></td>
</tr>
<tr>
<td>Complementary Course</td>
<td>1. Organic and biochemistry</td>
</tr>
<tr>
<td></td>
<td>2. Chemistry Practical</td>
</tr>
<tr>
<td></td>
<td>3. Morphology, Systematic Botany, Economic Botany Plant</td>
</tr>
<tr>
<td></td>
<td>Breeding and Horticulture</td>
</tr>
<tr>
<td></td>
<td>4. Botany Practical</td>
</tr>
<tr>
<td>Common: (English)</td>
<td>Signatures : Expressing the self</td>
</tr>
<tr>
<td>: (Arabic)</td>
<td>Literature in Arabic</td>
</tr>
<tr>
<td>: (Malayalam)</td>
<td>Malayala Sahithyam-III</td>
</tr>
<tr>
<td>: (Hindi)</td>
<td>Poetry in Hindi</td>
</tr>
</tbody>
</table>
IV SEMESTER

Core course:  
Animal Diversity- Chordata Part II  
Practicals related to theory core course

Complementary Course:  
1. Physical & Applied Chemistry  
2. Chemistry Practical  
3. Plant Physiology, Ecology Genetics  
4. Botany Practical

Common: (English)  
Spectrum: Literature and Contemporary Issues

: (Arabic)  
Culture & Civilization

: (Malayalam)  
Malayala Sahityam-IV

: (Hindi)  
Novels Short Stories

V SEMESTER

Core course:  
1. Environmental Biology, Wildlife Conservation Toxicology  
2. Ethology, Evolution & Zoogeography  
3. Cell Biology Genetics  
4. Methodology in science, Biostatics Informatics  
Practical related to fifth semester theory core courses

Open Course:  
Reproductive health and sex education

VI SEMESTER

Core course:  
1. Biochemistry  
2. Physiology & Endocrinology  
3. Molecular Biology & Bioinformatics  
4. Reproductive Biology, Developmental Biology Teratology  
5. Biotechnology. Microbiology and Immunology  
6. Aquaculture Animal husbandry & Poultry Science(Elective)  
Practical related to VI Semester theory core courses  
Project work/ Field visit Study tour
# B Com CO-OPERATION

## I SEMESTER

<table>
<thead>
<tr>
<th>Core course:</th>
<th>Business Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complementary Course:</td>
<td>Managerial Economics</td>
</tr>
<tr>
<td>Common: (English)</td>
<td>1. Transactions: Essential English Language Skills</td>
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<th>Core course:</th>
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<td>Complementary Course:</td>
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<td>Common: (English)</td>
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<table>
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<tr>
<th>Core course:</th>
<th>1. Business Regulations</th>
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<tr>
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<td>2. Corporate Accounting</td>
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<tr>
<td>Complementary Course:</td>
<td>Human Resource Management</td>
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<td>Common:</td>
<td>1. Basic Numerical Skills</td>
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<td>2 General Informatics</td>
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## IV SEMESTER

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<th>1. Cost Accounting</th>
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<tbody>
<tr>
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<td>2. Corporate Regulations</td>
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<tr>
<td>Complementary Course:</td>
<td>Quantitative Techniques for Business</td>
</tr>
<tr>
<td>Common:</td>
<td>1. Banking &amp; Insurance</td>
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<tr>
<td></td>
<td>2. Entrepreneurship Development</td>
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</tbody>
</table>
V SEMESTER

Core course:
1. Accounting for Management
2. Business Research Methods
3. Income Tax Law & Accounts
4. Co-operative Theory and Practice
5. Legal Environment for Co-operatives

Open Course:
Basics of Entrepreneurship & Mgt

VI SEMESTER

Core course:
1. Income Tax & GST
2. Auditing
3. International Co-operative Movement
4. Co-operative Management & Administration
5. Course work-Project & Viva Voce
# B Com COMPUTER APPLICATION

## I SEMESTER

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V SEMESTER

Core course:
1. Accounting for Management
2. Business Research Methods
3. Income Tax Law & Accounts
4. Business Applications of Computers
5. Business Information Systems

Open Course:
Basic Accounting

VI SEMESTER

Core course:
1. Income Tax & GST
2. Auditing
3. Office Automation Tools
4. Computerised Accounting with Tally
5. Project and Viva Voce
BBA

I SEMESTER

Core course : Management Theory & Practice
Complementary Course : Managerial Economics
Common: (English) 1. Transactions: Essential English Language Skills
                2. Ways with Words: Literature in English
                : (Arabic) Communicative Arabic
                : (Malayalam) Malayala Sahithyam Padanam - I
                : (Hindi) Prose forms in Hindi Literature

II SEMESTER

Core course : Financial Accounting
Marketing
Complementary Course : Marketing Management
Common: (English) 1. Writing for Academic and Professional Success
                2. Zeitgeist: Readings on Contemporary Culture
                : (Arabic) Reading Arabic Prose & Poetry
                : (Malayalam) Malayala Sahitya Padanam - II
                : (Hindi) Poetry, Correspondence & Translation

III SEMESTER

Core course : 1. Business Regulations
                2. Human Resource Management
Complementary Course : Quantitative Techniques for Business
Common: 1. Basic Numerical Skills
           2 General Informatics

IV SEMESTER

Core course : 1. Marketing Management
                2. Financial Management
Complementary Course : Management Science
Common: 1. Banking & Insurance
           2. Entrepreneurship Development
V SEMESTER

Core course:
1. Accounting for Management
2. Business Research Methods
3. Indian Financial System
4. Emerging Trends in Management
5. Investment Management

Open Course:
E-Commerce Management

VI SEMESTER

Core course:
1. Organisational Behaviour
2. Operations Management
3. Income Tax
4. Working Capital Management
Core Project - Three weeks project and Viva Voce
BA MASS COMMUNICATION

I SEMESTER

Core course: Fundamentals of Mass Communication
Complementary Course: Introductory Economics I
Common: (English) 1. Transactions: Essential English Language Skills
Common: (Malayalam) Malayala Sahithyam - I

II SEMESTER

Common: (English) 1. Writing for Academic and Professional Success
Common: (Malayalam) Malayala Sahityam-II

III SEMESTER

Core course: 1 Reporting for Newspapers
Core course: 2 Editing for Newspapers
Complementary Course: 1. Essentials of Economics - Money Banking Finance and Trade
Common: (English) Signatures : Expressing the self
Common: (Malayalam) Malayala Sahithyam-III

IV SEMESTER

Core course: 1 Design and Pagination
Core course: 2 Radio Production
Complementary Course: Essentials of Economics-Indian Economy English for Communication
Common: (English) Spectrum: Literature and Contemporary Issues
Common: (Malayalam) Malayala Sahityam-IV
V SEMESTER

Core course:  Introduction Mass Communication Theories
              Introduction to Television Production
              Corporate Communication
              Advertising Photo Journalism

Open Course:  News Paper Journalism

VI SEMESTER

Core course:  Media Laws and Ethics
              Online Journalism
              Introduction to Cinema
              Documentary Film Production - Elective
              Project
Physical Education

V SEMESTER

Open Course (5th Semester): Physical Activity Health & Wellness