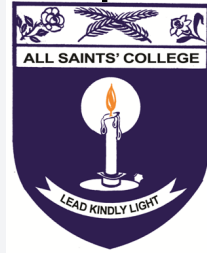


ALL SAINTS' COLLEGE

Thiruvananthapuram, KERALA



**Courses that include
experiential learning
through project
work/field
work/internship
prescribed in Syllabus**

UNIVERSITY OF KERALA

Revised Scheme & Syllabus for First Degree Programme in

B A ECONOMICS (CBCS SYSTEM) 2019

Semester I

| Credits | Instructional hours | Course Title | Course No | Sem No |
|---------|---------------------|--|-----------|--------|
| 4 | 5 | (Language Course I (English I | EN 1111 | I |
| 3 | 4 | Language Course II (Addl (Language I | 1111 | |
| 2 | 4 | Foundation Course I | EN 1121 | |
| 4 | 6 | Core I Introductory Micro Economics | EC 1141 | |
| 2 | 3 | Complementary I | 1131 | |
| 2 | 3 | Complementary II | 1131 | |
| 20 | 25 | Total | | |

Semester II

| Credits | Instructional hours | Course Title | Course No | Sem No |
|---------|---------------------|-----------------------------------|-----------|--------|
| 4 | 5 | (Language Course III (English II | EN 1211 | II |
| 3 | 4 | (Language Course IV (English III | 1212 | |
| 3 | 4 | (Language Course V (Addl. Lang II | 1211 | |

| | | | | |
|----|----|--|--------|--|
| 4 | 6 | Core II Intermediate Microeconomics | EC1241 | |
| 3 | 3 | Complementary III | 1231 | |
| 3 | 3 | Complementary IV | 1231 | |
| 20 | 25 | Total | | |

Semester III

| Credits | Instructional hours | Course Title | Course No | Sem No |
|---------|---------------------|--|---------------|--------|
| 4 | 5 | (Language Course VI (English IV | EN 1311 | III |
| 4 | 5 | (Language Course VII (Addl.Lan III | 1311 | |
| 3 | 4 | Foundation Course II Informatics for Applied Econometrics | EC1321 | |
| 4 | 5 | Core III Introductory Macroeconomics | EC1341 | |
| 3 | 3 | Complementary V | 1331 | |
| 3 | 3 | Complementary VI | 1331 | |
| 21 | 25 | Total | | |

Semester IV

| Credits | Instructional hours | Course Title | Course No | Sem No |
|---------|---------------------|---|-----------|--------|
| 4 | 5 | (Language Course VIII (English V | EN1411 | IV |
| 4 | 5 | (Language Course IX (Addl.Lan IV | 1411 | |
| 4 | 5 | Core IV Mathematical Methods for Economics | EC1441 | |
| 3 | 4 | Core V Intermediate Macroeconomics | EC1442 | |
| 3 | 3 | Complementary VII | 1431 | |
| 3 | 3 | Complementary VIII | 1431 | |
| 21 | 25 | Total | | |

Semester V

| Credits | Instructional hours | Course Title | Course No | Sem No |
|---------|---------------------|---|-----------|--------|
| 4 | 4 | Core VI Methodology and Perspectives of Social Science | EC1541 | V |
| 4 | 4 | Core VII Statistical Methods for Economics | EC1542 | |
| 4 | 4 | Core VIII Readings in Political Economy | EC1543 | |
| 2 | 3 | Core IX Economic Growth and Development | EC1544 | |

| | | | | |
|----|----|--|----------|--|
| 3 | 4 | Core X International Economics | EC1545 | |
| 2 | 3 | Open Course I – Introductory Economics | EC1551.1 | |
| 2 | 3 | Human Resource Management | EC1551.2 | |
| 2 | 3 | Indian Economy Since Liberalisation | EC1551.3 | |
| - | 3 | Project / Dissertation | | |
| 20 | 25 | Total | | |

Semester VI

| Credits | Instructional hours | Course Title | Course No | Sem No |
|---------|---------------------|--|-----------|--------|
| 4 | 5 | Core XI Indian Economy | EC1641 | VI |
| 4 | 4 | Core XII Banking and Finance | EC1642 | |
| 4 | 5 | Core XII Public Economics | EC1643 | |
| 3 | 4 | Core XII Environment Economics and Disaster Management | EC1644 | |
| 2 | 4 | Elective : Kerala Economy | EC1661.1 | |
| 2 | 4 | Mathematical Economics | 1661.2 | |
| 2 | 4 | Introductory Econometrics | 1661.3 | |
| 2 | 4 | History of Economic Thought | 1661.4 | |
| 3 | 3 | Project/Dissertation | EC 1645 | |
| 21 | 25 | | | |
| 120 | 150 | Grand Total | | |

:Complementary Courses Offered

Complementary I

EC 1131 Foundations of Economic Theory

Complementary III

EC 1231 Money and Banking

Complementary V

EC 1331 Introduction to International trade and Public Economics

Complementary VII

EC 1431 Indian Economy Since Independence

FACULTY OF COMMERCE

*Scheme and syllabus for the First Degree Programme in Commerce under the **Choice Based Credit and Semester System (CBCS)**(To be introduced from 2018admissions)*

The First Degree Programme in Commerce is designed with the objective of equipping the students to cope with the emerging trends and challenges in the industrial and business world.

I. Eligibility for admission

Eligibility for admissions and reservation of seats for the First Degree Programme in Commerce shall be according to the rules framed by the University from time to time. No student shall be eligible for admission to the First degree Programme in Commerce unless he/she has successfully completed the examination conducted by a Board/ University at the +2 level of schooling or its equivalent.

II. Registration

Each student shall register for the courses in the prescribed registration form in consultation with the Faculty Advisor within two weeks from the commencement of each semester.

III. Duration

The normal duration of the First Degree Programme in Commerce shall be three years consisting of six semesters. The duration of each semester shall be five months inclusive of the days of examinations. There shall be at least 90 working days in a semester and a minimum 450 hours of instruction in a semester. Odd Semester (June-October) commences in June and Even Semester (November – March) commences in November every Year.

IV Programme Structure

The First Degree Programme in Commerce shall include:

1. Language courses
2. Foundation courses
3. Core courses
4. Complementary courses
5. Open/ Elective courses
6. Project

Language courses include 4 common courses in English and 2 courses in an additional language chosen by the student. The student shall choose any one of the following additional languages offered in the college: Malayalam, Hindi, Tamil, French, German, Russian, and Arabic.

Foundation courses include 2 courses which are compulsory basic courses. Foundation course I aims at providing awareness on the methodology of business education and foundation II aims at providing basic education on general informatics and cyber laws.

Core courses include 16 compulsory courses in the major subject and complementary courses include 4 courses in the allied subjects.

There shall be two open courses. The students attached to the Department of Commerce can opt one course from their Department and another from any one of the other Departments in the college. The open course (1) in the 5th semester is a non- major elective open to all students except to the students from the Department of Commerce and the open course (2) in the 6th semester is an elective course in the major subject offered to the students of the Department of Commerce. In addition to the 2 open courses, the students shall choose any one of the additional elective streams with 4 courses in each stream, which is also compulsory as part of the First Degree Programme in Commerce.

Project Work:

| | | | | | | | |
|------------------------|---------|--|---|---|---|----|---|
| Course I | | I | | | | | |
| Language Course II | 1111 | Additional Language I | 4 | - | 3 | - | 4 |
| Foundation Course I | CO 1121 | Methodology and Perspectives of Business Education | 4 | - | 3 | - | 2 |
| Core Course I | CO 1141 | Environmental studies Management | 4 | - | 3 | - | 3 |
| Core Course II | CO 1142 | Concepts and Thoughts | 4 | - | 3 | - | 3 |
| Complementary Course I | CO 1131 | Managerial Economics | 4 | - | 3 | - | 3 |
| Total | 25 | | | | | 19 | |

SEMESTER II

| Courses | Course Code | Course Title | Instructional Hours Per Week | | End Semester Exam Hours | | Credit |
|----------------------|-------------|----------------------------|------------------------------|-----------|-------------------------|-----------|--------|
| | | | Theory | Practical | Theory | Practical | |
| Language Course III | EN 1211 | English II | 5 | - | 3 | - | 4 |
| Language Course IV | 1211 | Additional Language II | 4 | - | 3 | - | 4 |
| Foundation Course II | CO 1221 | Informatics and Cyber Laws | 4 | - | 3 | - | 3 |
| Core Course III | CO 1241 | Financial Account | 4 | - | 3 | - | 3 |

| | Code | Title | Instructional Hours Per Week | | Semester Exam Hours | | Credit |
|-------------------------|---------|---------------------------|------------------------------|-----------|---------------------|-----------|--------|
| | | | Theory | Practical | Theory | Practical | |
| Language Course VI | EN 1411 | English IV | 3 | - | 3 | - | 3 |
| Core Course VIII | CO 1441 | Indian Financial Markets | 4 | - | 3 | - | 3 |
| Core Course IX | CO 1442 | Banking and Insurance | 4 | - | 3 | - | 4 |
| Core Course X | CO 1443 | Corporate Accounting | 5 | - | 3 | - | 4 |
| Elective Course II | CO 1461 | Elective stream 1/2/3/4/5 | 5(1) | (4) | 3 | (1.5) | 4 |
| Complementary Course IV | CO 1431 | Business Statistics | 4 | - | 3 | - | 3 |
| Total | 25(21) | (4) | | | | | 21 |

Figures in brackets are applicable only for computer application stream

| SEMESTER V | | | | | | | |
|------------------|-------------|----------------------------|------------------------------|-----------|-------------------------|-----------|--------|
| Courses | Course Code | Course Title | Instructional Hours Per Week | | End Semester Exam Hours | | Credit |
| | | | Theory | Practical | Theory | Practical | |
| Core Course XI | CO 1541 | Fundamentals of Income Tax | 5 | - | 3 | - | 4 |
| Core Course XII | CO 1542 | Cost Accounting | 5 | - | 3 | - | 4 |
| Core Course XIII | CO 1543 | Marketing Management | 4 | - | 3 | - | 4 |
| Open Course I | CO 1551 | Open Course | 3 | - | 3 | - | 2 |

| | | | | | | | |
|---------------------|----------|------------------------------|------|-----|---|-------|---|
| | | - 1/2/3 | | | | | |
| Elective Course III | CO 1561 | Elective stream 1/2/3/4/5 | 5(1) | (4) | 3 | (1.5) | 4 |
| Project Total | - 25(21) | Project (4) | 3 | - | - | - 18 | - |

Figures in brackets are applicable only for computer application stream

| SEMESTER VI | | | | | | | |
|--|-------------|------------------------------|------------------------------|------------|-------------------------|-----------|--------|
| Courses | Course Code | Course Title | Instructional Hours Per Week | | End Semester Exam Hours | | Credit |
| | | | Theory | Practical | Theory | Practical | |
| Core Course XIV | CO 1641 | Auditing | 4 | - | 3 | - | 4 |
| Core Course XV | CO 1642 | Applied Costing | 5 | - | 3 | - | 4 |
| Core Course XVI | CO 1643 | Management Accounting | 5 | - | 3 | - | 4 |
| Open Course II | CO 1651 | Open Course - 1/2/3 | 3 | - | 3 | - | 2 |
| Elective Course IV | CO 1661 | Elective stream 1/2/3/4/5 | 5(1) | (4) | 3 | (1.5) | 4 |
| Project | CO 1644 | Project | 3 | - | - | - | 4 |
| Total Grand Total (SI+SII+SIII+SIV+SV+SVI) | 25(21) | (4) | | | | 22 | |
| | | | | 120 | | | |

Figures in brackets are applicable only for computer application stream

ELECTIVE STREAMS

1. FINANCE

| Semester III | Course Code CO | Course Title Financi |
|--------------|----------------|----------------------|
|--------------|----------------|----------------------|

| | | | |
|----|--------------|----|---|
| | 1361.3 | m: | Principles and Practice |
| IV | CO146 1.3 | | Tourism Products |
| V | CO 1561.3 | | Hospitality Management |
| VI | CO 1661.3 | | Tourism Agency, Tour operation and Airline Management |

4. INSURANCE AND BANKING

| Semester | Course Code | Course Title |
|----------|--------------|--|
| III | CO 1361.4 | Principles and Practice of Life Insurance |
| IV | CO146 1.4 | Principles and Practice of General Insurance |
| V | CO 1561.4 | Indian Banking System |
| VI | CO 1661.4 | Practical Bankin |

5. COMPUTER APPLICATION

| Semester | Course Code | Course Title |
|----------|-------------|---|
| III | CO 1361.5 | Computer Application for Publication |
| IV | CO146 1.5 | Software for Data Management |
| V | CO 1561.5 | Web Designing and Production for Businesses |
| VI | CO 1661.5 | Computerised Accounting |

OPEN COURSES

| Semester | Course Code | Course Title |
|--|-------------|--------------------------------------|
| V (for students from disciplines other than Commerce) | CO 1551.1 | Fundamentals of Financial Accounting |
| | CO 1551.2 | Principles of Management |
| | CO 1551.3 | Capital Market Operations |
| VI (for students from the Department of Commerce) | CO 1651.1 | Practical Accounting |
| | CO 1651.2 | Management of Foreign Trade |
| | CO 1651.3 | Strategic Management |

Notes:

1. Each candidate has to choose an elective stream which contains four courses, one each in the third, fourth, fifth and sixth semesters.
2. The open course offered in the fifth semester is an elective course for students from the Disciplines other than Commerce. He/ She can choose any one among the courses offered in that group as part of his/ her course of study.
3. The open course offered in the sixth semester is an elective course for students from the Department of Commerce and each student has to choose any one among the courses offered in

UNIVERSITY OF KERALA

FIRST DEGREE PROGRAMME(CBCS System) in B.A. ENGLISH LANGUAGE AND LITERATURE

**Revised Syllabus for 2020 Admissions onwards
(Core, Complementary, Open & Elective Courses)**

(2020 ADMISSION ONWARDS)

**FIRST DEGREE PROGRAMMES (CBCS System) in
B.A. ENGLISH LANGUAGE AND LITERATURE**

**SEMESTERS I to VI - COURSE BREAKUP
[2020 Admission onwards]**

| Sem No | Course No | Course Title | Instructional Hours | Credits |
|---------------|------------------|---|----------------------------|----------------|
| 1 | EN 1111.1 | Language Course 1: Language Skills | 5 | 4 |
| 1 | | Language Course 2: [Additional Language 1] | 4 | 3 |
| 1 | EN 1121 | Foundation Course 1: Writings on Contemporary Issues | 4 | 2 |
| 1 | EN 1141 | Core Course 1: Introduction to Literary Studies I | 6 | 4 |
| 1 | EN 1131 | Complementary Course 1: Popular Literature and Culture | 3 | 3 |
| 1 | | Complementary Course 2 [External] | 3 | 2 |
| 2 | EN 1211.1 | Language Course 3: Ability Enhancement Compulsory Course- Environmental Studies and Disaster Management | 5 | 4 |
| 2 | EN 1212.1 | Language Course 4: English Grammar Usage and Writing | 4 | 3 |
| 2 | | Language Course 5: [Additional Language 2] | 4 | 3 |
| 2 | EN 1241 | Core Course 2: Introduction to Literary Studies II | 6 | 4 |
| 2 | EN 1231 | Complementary Course 3 : Art and Literary Aesthetics | 3 | 3 |
| 2 | | Complementary Course 4 [External] | 3 | 3 |
| 3 | EN 1311.1 | Language Course 6: English for Career | 5 | 4 |
| 3 | | Language Course 7:[Additional Language 3] | 5 | 4 |
| 3 | EN 1341 | Core Course 3: British Literature I | 5 | 3 |
| 3 | EN 1321 | Foundation Course 2: Evolution of the English Language | 4 | 3 |
| 3 | EN 1331 | Complementary Course 5: Narratives of Resistance | 3 | 3 |
| 3 | | Complementary Course 6 [External] | 3 | 3 |
| 4 | EN 1411.1 | Language Course 8: Readings in Literature | 5 | 4 |
| 4 | | Language Course 9 [Additional Language: 4] | 5 | 4 |
| 4 | EN 1441 | Core Course 4: British Literature II | 5 | 4 |
| 4 | EN 1442 | Core Course 5: Literature of the 20 th Century | 4 | 3 |
| 4 | EN 1431 | Complementary Course 7: Philosophy for | 3 | 2 |

| | | | | |
|---|-----------|---|------|------|
| | | Literature | | |
| 4 | | Complementary Course 8 [External] | 3 | 3 |
| 5 | EN 1541 | Core Course 6: Literature of Late 20 th Century and 21 st Century | 5 | 4 |
| 5 | EN 1542 | Core Course 7: Postcolonial Literatures | 4 | 4 |
| 5 | EN 1543 | Core Course 8: 20 th Century Malayalam Literature in Translation | 4 | 3 |
| 5 | EN 1544 | Core Course 9: Linguistics and Structure of the English Language | 4 | 4 |
| 5 | EN 1545 | Core Course 10: Criticism and Theory | 5 | 4 |
| 5 | EN 1551.1 | Open Course 1: Communicative Applications in English | 3 | 2 |
| 5 | EN 1551.2 | Open Course 1: Theatre Studies | -do- | -do- |
| 5 | EN 1551.3 | Open Course 1: Film Appreciation | -do- | -do- |
| 6 | EN 1641 | Core Course 11: Gender Studies | 5 | 4 |
| 6 | EN 1642 | Core Course 12: Indian Writing in English | 5 | 4 |
| 6 | EN 1643 | Core Course 13: Film Studies | 5 | 4 |
| 6 | EN 1644 | Core Course 14: World Classics | 4 | 3 |
| 6 | EN 1661.1 | Elective Course: Translation Studies | 3 | 2 |
| 6 | EN 1661.2 | Elective Course: American Literature | -do- | -do- |
| 6 | EN 1661.3 | Elective Course: Creative Writing | -do- | -do- |
| 6 | EN 1661.4 | Elective Course: English for the Media | -do- | -do- |
| 6 | EN 1661.5 | Elective Course: 20 th Century Regional Literatures in English Translation | -do- | -do- |
| 6 | EN 1661.6 | Elective Course: Copy Editing | -do- | -do- |
| 6 | EN1645 | Project | 3 | 4 |

B.A. HISTORY (CBCSS)

Restructured Syllabus

Affiliated Colleges, Kerala University

For 2013 Admission (3rd to 6th semester) and

2014 Admission Onwards(1st to 6th semester)

Contents

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| SEM NO | COURSE NO | COURSE TITLES | INSTR: HRS | NO.OF CREDITS |
|--------|----------------------|--|------------|---------------|
| I | EN 1111 | Language Course I (English-1) | 5 | 4 |
| | M/H 1111 | Language Course II (Addl. Language) | 4 | 3 |
| | EN 1121 | Foundation Course I | 4 | 2 |
| | HY 1141 | Core I-Methodology and Perspectives of Social Sciences | 6 | 4 |
| | HY 1131.1 (EC/IH/SG) | Complementary I-History of Modern India (1857-1900), For Economics, Islamic History and Sociology | 3 | 2 |
| | HY 1131.2 (EN/PL) | Complementary II- History of Modern World, (1789-1900), For English & Political Science | 3 | 2 |
| | | Total | 25 | 17 |
| II | EN 1211 | Language Course III (English II) | 5 | 4 |
| | EN1212 | Language Course IV (English III) | 4 | 3 |
| | M/H 1211 | Language Course V (Addl. Language II) | 4 | 3 |
| | HY 1241 | Core II-Cultural Formation of the Pre-Modern World | 6 | 4 |
| | HY 1231.3 (EC/IH/SG) | Complementary III- History of Modern India (1901-1920), For Economics, Islamic History and Sociology | 3 | 3 |
| | HY 1231.4 (EN/PL) | Complementary IV- History of Modern World, (1901-1920),for English & Political Science | 3 | 3 |
| | | Total | 25 | 20 |
| III | EN 1311 | Language Course VI (English) | 5 | 4 |
| | M/H 1311 | Language Course VII (Addl. Language III) | 5 | 4 |
| | HY 1321 | Foundation Course II- Informatics | 4 | 3 |
| | HY 1341 | Core III-Evolution of the early Indian society & Culture | 5 | 4 |
| | HY 1331.5 (EC/IH/SG) | Complementary V-History of Modern India (1921-1947), For Economics, Islamic History and Sociology | 3 | 3 |
| | HY 1331.6 (EN/PL) | Complementary VI- History of Modern World, (1921-1945),For English & Political Science | 3 | 3 |
| | | Total | 25 | 21 |
| IV | EN 1411 | Language Course VIII (English V) | 5 | 4 |
| | M/H 1411 | Language Course IX (Addl. Language IV) | 5 | 4 |
| | HY1441 | Core IV- Medieval India: Socio-Cultural Processes. | 5 | 4 |
| | HY1442 | Core V-History Modern World – Part I | 4 | 3 |
| | HY 1431.7 (EC/IH/SG) | Complementary VII-History of Modern India (after1948), For Economics, Islamic History and Sociology | 3 | 3 |
| | HY 1431.8 (EN/PL) | Complementary VIII- History of Modern World, (after1946), For English & Political Science | 3 | 3 |
| | | Total | 25 | 21 |

| | | | | |
|----------|---------------------------------------|--|-----|---|
| V | HY1541 | Core VI-Major trends in Historical thoughts and writings | 4 | 4 |
| | HY1542 | Core VII-Colonialism and Resistance movements in India | 4 | 4 |
| | HY1543 | CoreVIII-History of Modern World – Part II | 3 | 2 |
| | HY1544 | Core IX-History of Pre- Modern Kerala | 4 | 4 |
| | HY1545 | Core X-Making of Indian Nation | 3 | 2 |
| | HY 1551.1 | Open Courses- Empowerment of Women with special reference to India | | |
| | HY 1551.2 | An Introduction to Archaeology | 3 | 2 |
| | HY1551.3 | History of Human Rights Movement. Project/Dissertation Historical Method-Mechanics Project Writing Study Tour | 3 | 0 |
| | Total | 25 | 20 | |
| V1 | HY1641 | Core XI - Making of Modern Kerala | 5 | 4 |
| | HY 1642 | Core XII - Major trends in Indian Historical thought & writings | 5 | 4 |
| | HY1643 | Core XIII - Contemporary India | 5 | 4 |
| | HY1644 | Core XIV - Twentieth Century Revolutions | 4 | 3 |
| | HY1651.1 | Electives Historical Tourism | 3 | 2 |
| | HY1651.2 | Heritage Studies | | |
| | HY 1651.3 | Contemporary World | | |
| | HY1651.4 | Empowerment of Women with special reference to India | | |
| | HY1651.5 | An Introduction to Archaeology | | |
| | HY1651.6 | History of Human Rights Movement. | | |
| HY1651.7 | Environmental History of Modern India | | | |
| HY1645 | Project/Dissertation | 3 | 4 | |
| | Total | 25 | 21 | |
| | Grand Total | 150 | 120 | |

FIRST DEGREE PROGRAMMES (CBCS System)**English Language /Foundation Courses for BA/BSc Programmes****SEMESTERS I to IV - COURSE BREAKUP**

| Sem No | Course No | Course Title | Instructional hours | credits |
|--------|-----------|--|---------------------|---------|
| 1 | EN 1111.1 | Language Course 1: Listening, Speaking, and Reading | 5 | 4 |
| 1 | EN 1121 | Foundation Course 1: Writings on Contemporary Issues | 4 | 2 |
| 2 | EN 1211.1 | Language Course 3: Environmental Studies | 6 | 4 |
| 2 | EN 1212.1 | Language Course 4: Modern English Grammar and Usage | 4 | 3 |
| 3 | EN 1311.1 | Language Course 6: Writing and Presentation Skills | 5 | 4 |
| 4 | EN 1411.1 | Language Course 8: Readings in Literature | 5 | 4 |

English Language Courses for BCom Programmes**SEMESTERS I to IV - COURSE BREAKUP**

| Sem No | Course No | Course Title | Instructional hours | credits |
|--------|-----------|---|---------------------|---------|
| 1 | EN 1111.2 | Language Course 1: Listening, Speaking, and Reading | 5 | 4 |
| 2 | EN 1211.2 | Language Course 3: Modern English Grammar and Usage | 5 | 4 |
| 3 | EN 1311.2 | Language Course 4: Writing and Presentation Skills | 3 | 3 |
| 4 | EN 1411.2 | Language Course 6 : Readings in Literature | 3 | 3 |

English Language/Complementary Courses for 2(a) Programmes**SEMESTERS I to IV - COURSE BREAKUP**

| Sem No | Course No | Course Title | Instructional hours | credits |
|--------|-----------|--|---------------------|---------|
| 1 | EN 1111.3 | Language Course 1: Listening Speaking and Reading | 5 | 4 |
| 2 | EN 1211.3 | Language Course 3: Modern English Grammar and Usage | 5 | 3 |
| 3 | EN 1311.3 | Language Course 5: Writing and Presentation Skills | 5 | 4 |
| 3 | EN 1331.3 | Complementary Course 3: Creative Writing [Career related – 2(a)] | 5 | 4 |
| 4 | EN 1411.3 | Language Course 6 : Readings in Literature | 5 | 4 |
| 4 | EN 1431 | Complementary Course 4: English for the Media [Career related - 2(a)] | 5 | 4 |

English Language Courses for 2(b) Programmes

SEMESTERS I & II - COURSE BREAKUP

| Sem No | Course No | Course Title | Instructional hours | credits |
|--------|-----------|--|---------------------|---------|
| 1 | EN 1111.4 | Language Course 1: Listening and Speaking Skills | 3 | 2 |
| 2 | EN 1211.4 | Language Course 2: Writing and Presentation Skills | 3 | 2 |

UNDERGRADUATE PROGRAMMES

**CAREER-RELATED FIRST DEGREE PROGRAMMES (CBCS System) in
JOURNALISM AND MASS COMMUNICATION & VIDEO PRODUCTION**

SEMESTERS III to IV - COURSE BREAKUP

[2015 Admission onwards]

| Sem No | Course No | Course Title | Instructional hours | credits |
|--------|-----------|---|---------------------|---------|
| 1 | EN 1331.3 | Complementary Course: Creative Writing [Career-related 2(a)] | 5 | 4 |
| 2 | EN 1431.3 | Complementary Course: English for the Media | 5 | 4 |

**FIRST DEGREE PROGRAMMES (CBCS System) in B.A. ENGLISH & COMMUNICATIVE
ENGLISH**

SEMESTERS I to VI - COURSE BREAKUP

[2015 Admission onwards]

| Sem No | Course No | Course Title | Instructional hours | credits |
|--------|-----------|---|---------------------|---------|
| 1 | EN 1111.3 | Language Course 1: Listening, Speaking, and Reading | 5 | 4 |
| 1 | CG 1121.3 | Foundation Course 1: Writings on Contemporary Issues | 3 | 2 |
| 1 | CG 1141 | Core Course 1: Reading Poetry | 5 | 3 |
| 1 | CG 1171 | Vocational Course 1: Basics of Communication | 3 | 3 |
| 1 | CG 1131 | Complementary Course 1: History of English Literature 1 | 4 | 4 |
| 1 | | Language Course 2 (Additional Language 1) | 5 | 3 |
| 2 | EN 1211.3 | Language Course 3: Modern English Grammar and Usage | 5 | 3 |
| 2 | CG 1241 | Core Course 2: Reading Drama | 5 | 4 |
| 2 | CG 1271 | Vocational Course 2: Environmental Studies | 6 | 4 |
| 2 | CG 1231 | Complementary Course 2: History of English Literature 2 | 4 | 4 |
| 2 | | Language Course 4 (Additional Language 2) | 5 | 3 |
| 3 | EN 1311.3 | Language Course 5: Writing and Presentation Skills | 5 | 4 |
| 3 | CG 1321 | Foundation Course 2: Informatics | 4 | 3 |

| | | | | |
|---|-----------|---|---|---|
| 3 | CG 1341 | Core Course 3: Reading Fiction | 4 | 3 |
| 3 | CG 1342 | Core Course 4: 20 th C Malayalam Literature in English Translation | 3 | 3 |
| 3 | CG 1331 | Complementary Course 3: History of English Literature 3 | 4 | 4 |
| 3 | CG 1371 | Vocational Course 3: Copy Editing | 4 | 4 |
| 4 | EN 1411.3 | Language Course 6 : Readings in Literature | 5 | 4 |
| 4 | CG1441 | Core Course 5: Reading Prose | 4 | 3 |
| 4 | CG 1442 | Core Course 6: World Classics | 4 | 3 |
| 4 | CG 1431 | Complementary Course 4: History of English Language and Phonetics | 4 | 4 |
| 4 | CG 1471 | Vocational Course 4: Print and Online Writing | 4 | 4 |
| 4 | CG 1472 | Vocational Course 5: Theatre Studies | 4 | 4 |
| 5 | CG 1541 | Core Course 7: Literary Criticism | 5 | 4 |
| 5 | CG 1542 | Core Course 8: Film Studies | 4 | 3 |
| 5 | CG 1543 | Core Course 9: Indian Writing in English | 3 | 3 |
| 5 | CG 1551.1 | Open Course 1: Creative Writing | 3 | 2 |
| | CG 1551.2 | Open Course 1: Translation Studies | | |
| | CG 1551.3 | Open Course 1: English for the Media | | |
| 5 | PE 1551 | Open Course 1: Health and Fitness Education | 3 | 2 |
| 5 | CG 1571 | Vocational Course 6: English Language Teaching | 4 | 4 |
| 5 | CG 1572 | Vocational Course 7: The Language of Advertisements | 3 | 3 |
| 5 | CG 1573 | Vocational Course 8: Audio Visual Writing | 3 | 3 |
| 6 | CG 1641 | Core Course 10: Travel Literature | 5 | 3 |
| 6 | CG 1642 | Core Course 11: Women's Writing | 5 | 3 |
| 6 | CG 1643 | Core Course 12: Methodology and Perspectives of Humanities | 4 | 3 |
| 6 | CG 1661.1 | Elective Course: American Literature | 3 | 2 |
| | CG 1661.2 | Elective Course: Communicative Applications in English | | |
| 6 | CG 1671 | Vocational Course 9: Technical English | 3 | 3 |
| 6 | CG 1672 | Vocational Course 10: Business Communication in English | 3 | 3 |
| 6 | CG 1644 | Project/Dissertation | 3 | 4 |

FIRST DEGREE PROGRAMMES (CBCS System) in B.A. ENGLISH LANGUAGE & LITERATURE

SEMESTERS I to VI - COURSE BREAKUP

[2015 Admission onwards]

| Sem No | Course No | Course Title | Instructional hours | credits |
|--------|-----------|---|---------------------|---------|
| 1 | EN 1111.1 | Language Course 1: Listening Speaking and Reading | 5 | 4 |
| 1 | | Language Course 2: (Additional Language 1) | 4 | 3 |
| 1 | EN 1121 | Foundation Course 1: Writings on Contemporary Issues | 4 | 2 |
| 1 | EN 1141 | Core Course 1: Reading Poetry | 6 | 4 |
| 1 | EN 1131 | Complementary Course 1: History of English Literature 1 | 3 | 3 |
| 1 | | Complementary Course 2 (External) | 3 | 2 |
| 2 | EN 1211.1 | Language Course 3: Environmental Studies | 6 | 4 |
| 2 | EN 1212.1 | Language Course 4: Modern English Grammar & Usage | 4 | 3 |
| 2 | | Language Course 5: (Additional Language 2) | 4 | 3 |
| 2 | EN 1241 | Core Course 2: Reading Drama | 6 | 4 |
| 2 | EN 1231 | Complementary Course 3: History of English Literature 2 | 3 | 3 |
| 2 | | Complementary Course 4 (External) | 3 | 3 |
| 3 | EN 1311.1 | Language Course 6: Writing and Presentation Skills | 5 | 4 |
| 3 | | Language Course 7: (Additional Language 3) | 5 | 4 |
| 3 | EN 1341 | Core Course 3: Reading Fiction | 4 | 3 |
| 3 | EN 1342 | Core Course 4: 20 th Century Malayalam Literature in English Translation | 5 | 4 |
| 3 | EN 1331 | Complementary Course 5: History of English Literature 3 | 3 | 3 |
| 3 | | Complementary Course 6 (External) | 3 | 3 |
| 3 | EN 1331.3 | Complementary Course : Creative Writing [Career 2(a)] | 5 | 4 |
| 4 | EN 1411.1 | Language Course 8: Readings in Literature | 5 | 4 |
| 4 | | Language Course 9: (Additional Language 4) | 5 | 4 |
| 4 | EN 1441 | Core Course 5: Reading Prose | 5 | 4 |
| 4 | EN 1421 | Foundation Course 2: Informatics | 4 | 3 |
| 4 | EN 1431 | Complementary Course 7: History of English Language | 3 | 2 |
| 4 | | Complementary Course 8 (External) | 3 | 3 |
| 4 | EN 1431.3 | Complementary Course : English for the Media | 5 | 4 |
| 5 | EN 1541 | Core Course 6: Literary Criticism | 5 | 4 |
| 5 | EN 1542 | Core Course 7: Indian Literature in English | 5 | 4 |
| 5 | EN 1543 | Core Course 8: Film Studies | 3 | 2 |

| | | | | |
|---|-----------|--|---|---|
| 5 | EN 1544 | Core Course 9: Linguistics and Phonetics | 4 | 4 |
| 5 | EN 1545 | Core Course 10: Post Colonial Literatures in English | 5 | 4 |
| 5 | EN 1551.1 | Open Course 1: Communicative Applications in English | 3 | 2 |
| | EN 1551.2 | Open Course 1: Theatre Studies | | |
| | PE 1551 | Open Course 1: Health and Fitness Education | | |
| 6 | EN 1641 | Core Course 11: World Classics | 5 | 4 |
| 6 | EN 1642 | Core Course 12: Methodology & Perspectives of Humanities | 5 | 4 |
| 6 | EN 1643 | Core Course 13: English for the Media | 5 | 4 |
| 6 | EN 1644 | Core Course 14: Women's Writing | 4 | 3 |
| 6 | EN 1661.1 | Elective Course : Translation Studies | 3 | 2 |
| | EN 1661.2 | Elective Course: Copy Editing | | |
| | EN 1661.3 | Elective Course: Creative Writing | | |
| 6 | EN 1645 | Project | 3 | 4 |

UNIVERSITY OF KERALA
First Degree Programme in Zoology
Choice Based Credit and Semester System

Zoology Core Course
Syllabus-2015 Admission Onwards

FIRST DEGREE PROGRAMME IN ZOOLOGY
SCHEME OF INSTRUCTION OF CORE COURSES, FOUNDATION COURSE II & OPEN COURSES

| Course code | Course Title | Sem I | | | Sem II | | | Sem III | | | Sem IV | | | Sem V | | | Sem VI | | | Total | |
|-------------|--|--------------|---|--------|--------------|---|--------|--------------|---|--------|--------------|---|--------|--------------|---|--------|--------------|---|--------|--------------|--------|
| | | Contact Hour | | Credit | Contact Hour | | Credit | Contact Hour | | Credit | Contact Hour | | Credit | Contact Hour | | Credit | Contact Hour | | Credit | Contact Hour | Credit |
| | | T | P | | T | P | | T | P | | T | P | | T | P | | T | P | | | |
| ZO1141 | ANIMAL DIVERSITY I | 3 | | 3 | | | | | | | | | | | | | | | 3 | 3 | |
| ZO1241 | ANIMAL DIVERSITY II | | | | 3 | | 3 | | | | | | | | | | | | 3 | 3 | |
| ZO1341 | METHODOLOGY & PERSPECTIVES OF ZOOLOGY | | | | | | | 3 | | 3 | | | | | | | | | 3 | 3 | |
| ZO1441 | CELL BIOLOGY | | | | | | | | | 3 | | 3 | | | | | | | 3 | 3 | |
| ZO1442 | PRACTICAL I, OF ZO1141,1241,1341 | | 1 | | | 1 | | | 2 | | | 2 | 4 | | | | | | 6 | 4 | |
| ZO1541 | GENETICS & BIOTECHNOLOGY | | | | | | | | | | | | 4 | | 4 | | | | 4 | 4 | |
| ZO1542 | IMMUNOLOGY & MICROBIOLOGY | | | | | | | | | | | | 4 | | 4 | | | | 4 | 4 | |
| ZO1543 | PHYSIOLOGY AND BIOLOGICAL CHEMISTRY | | | | | | | | | | | | 5 | | 4 | | | | 5 | 4 | |
| ZO1551 | OPEN COURSE | | | | | | | | | | | | 3 | | 2 | | | | 3 | 2 | |
| ZO1621 | GENERAL INFORMATICS, BIOINFORMATICS AND MOLECULAR BIOLOGY | | | | | | | | | | | | | | | 5 | | 4 | 5 | 4 | |
| ZO1641 | DEVELOPMENTAL BIOLOGY AND EXPERIMENTAL EMBRYOLOGY | | | | | | | | | | | | | | | 4 | | 4 | 4 | 4 | |
| ZO1642 | ECOLOGY, ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY | | | | | | | | | | | | | | | 4 | | 3 | 4 | 3 | |
| ZO1651 | OPEN COURSE - II | | | | | | | | | | | | | | | 3 | | 2 | 3 | 2 | |
| ZO1643 | PRACTICAL -II CELL BIOLOGY, MOLECULAR BIOLOGY, IMMUNOLOGY & MICROBIOLOGY | | | | | | | | | | | | | 2 | | 2 | 2 | 2 | 4 | 4 | |
| ZO1644 | PRACTICAL-III PHYSIOLOGY AND BIOLOGICAL CHEMISTRY AND BIOINFORMATICS | | | | | | | | | | | | | 2 | | | 2 | 3 | 4 | 3 | |
| ZO1645 | PRACTICAL -IV DEVELOPMENTAL BIOLOGY, ECOLOGY, ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY | | | | | | | | | | | | | 2 | | | 2 | 3 | 4 | 3 | |
| ZO1646 | ZOOLOGY PROJECT | | | | | | | | | | | | | 2 | | | 3 | 4 | 6 | 4 | |
| | FIELD STUDY & STUDY TOUR | | | | | | | | | | | | | 1 | | | | | | | |

..

UNIVERSITY OF KERALA

REVISED SYLLABI FOR

FIRST DEGREE PROGRAMME IN

PHYSICS

UNDER

CHOICE BASED-CREDIT & SEMESTER-

SYSTEM (CBCSS)

(2018 admission onwards)

PY1647 **Project and Research**

-

2

4

-

Institute/Science Museum visit

| | | | | | |
|---|---|---|---|----|---|
| | PY1642 | 4 | 4 | 72 | 3 |
| | - | | | | |
| | Nuclear & Particle Physics | | | | |
| 6 | PY1643 | 4 | 4 | 72 | 3 |
| | - | | | | |
| | Classical & Modern Optics | | | | |
| | PY1644 | 4 | 3 | 72 | 3 |
| | -Digital Electronics & Computer Science | | | | |
| | PY1661 | 3 | 2 | 54 | 3 |
| | - | | | | |
| | Elective Course | | | | |

(1b). COURSE STRUCTURE FOR PRACTICAL AND PROJECT WORK

FOR THE CORE COURSE:

| Sem | Title of Paper | Duration of Exam | Number Of Credits | Weightage | | Allotted hours | |
|-----|--|------------------|-------------------|-----------|----|--|----------|
| | | | | IA | UE | Per week | Per year |
| 4 | PY144 2- Basic Physics Lab 1 | 3 | 3 | 1 | 3 | S1--- 2 S2--- 2 S3--- 2 S4--- 2 | 144 |
| 6 | PY164 5- Advanced Physics Lab 2 | 3 | 2 | 1 | 3 | S5--- 2 S6--- 2 | 72 |
| | PY164 6- Advanced | 3 | 3 | 1 | 3 | S5--- 2 | 72 |

| | | | | | | | |
|---|-----------------|---|---|---|---|--------------|----|
| 6 | Physics Lab 3 | | | | | S6— 2 | |
| 6 | PY-1647-Project | - | 4 | - | 4 | S5-2 S6-2 | 72 |

2(a). Complementary Courses (General structure)

| Semester | Theory | | Practical | | Number of credits |
|----------|----------------------|-------------------|-----------------|----------------------|-------------------|
| | Number of hours/week | Number of credits | Total hours/sem | number of hours/week | |
| 1 | 2 | 2 | 36 | 2 | - |
| 2 | 2 | 2 | 36 | 2 | - |
| 3 | 3 | 3 | 54 | 2 | - |

**Board of Studies in Mathematics (UG)
UNIVERSITY OF KERALA**

**First Degree Programme in
MATHEMATICS
under Choice Based Credit and Semester System**

**SYLLABUS
for 2018 admission onwards**

STRUCTURE OF CORE COURSES

| Sem | Course Code | Course title | Instr.hrs. per week | Credit |
|-----|-------------|--|---------------------|--------|
| I | MM 1141 | Methods of Mathematics | 4 | 4 |
| II | MM 1221 | Foundations of Mathematics | 4 | 3 |
| III | MM 1341 | Elementary Number Theory and Calculus – I | 5 | 4 |
| IV | MM 1441 | Elementary Number Theory and Calculus – II | 5 | 4 |
| V | MM 1541 | Real Analysis – I | 5 | 4 |
| | MM 1542 | Complex Analysis – I | 4 | 3 |
| | MM 1543 | Abstract Algebra – Group Theory | 5 | 4 |
| | MM 1544 | Differential Equations | 3 | 3 |
| | MM 1545 | Mathematics Software – L ^A T _E X & SageMath (Practical Examination Only) | 4 | 3 |
| | MM 1551 | Open Course | 3 | 2 |
| | | Project preparation - From selecting the topic to presenting the final report | 1 | |
| VI | MM 1641 | Real Analysis – II | 5 | 4 |
| | MM 1642 | Complex Analysis – II | 4 | 3 |
| | MM 1643 | Abstract Algebra – Ring Theory | 4 | 3 |
| | MM 1644 | Linear Algebra | 5 | 4 |
| | MM 1645 | Integral Transforms | 4 | 3 |
| | MM 1651 | Elective Course | 3 | 2 |
| | MM 1646 | Project | | 4 |

STRUCTURE OF OPEN COURSES

| Sem | Course Code | Course title | Instr.hrs. per week | Credit |
|-----|-------------|----------------------|---------------------|--------|
| V | MM 1551.1 | Operations Research | 3 | 2 |
| V | MM 1551.2 | Business Mathematics | 3 | 2 |
| V | MM 1551.3 | Basic Mathematics | 3 | 2 |

STRUCTURE OF ELECTIVE COURSES

| Sem | Course Code | Course title | Instr.hrs. per week | Credit |
|-----|-------------|----------------------------------|---------------------|--------|
| VI | MM 1661.1 | Graph Theory | 3 | 2 |
| VI | MM 1661.2 | Linear Programming with SageMath | 3 | 2 |
| VI | MM 1661.3 | Numerical Analysis with SageMath | 3 | 2 |
| VI | MM 1661.4 | Fuzzy Mathematics | 3 | 2 |

STRUCTURE OF THE COMPLEMENTARY COURSES

Complementary Course in Mathematics for First Degree Programme in Physics

| Course Code | Sem. | Title of Course | Contact hrs/week | No. of Credits |
|-------------|------|--|------------------|----------------|
| MM 1131.1 | 1 | Calculus with applications in Physics – I | 4 | 3 |
| MM 1231.1 | 2 | Calculus with applications in Physics – II | 4 | 3 |
| MM 1331.1 | 3 | Calculus and Linear Algebra | 5 | 4 |
| MM 1431.1 | 4 | Complex Analysis, Special Functions and Probability Theory | 5 | 4 |

Complementary Course in Mathematics for First Degree Programme in Chemistry

| Course Code | Sem. | Title of Course | Contact hrs/week | No. of Credits |
|-------------|------|--|------------------|----------------|
| MM 1131.2 | 1 | Calculus with applications in Chemistry – I | 4 | 3 |
| MM 1231.2 | 2 | Calculus with applications in Chemistry – II | 4 | 3 |
| MM 1331.2 | 3 | Linear Algebra, Probability Theory & Numerical Methods | 5 | 4 |
| MM 1431.2 | 4 | Differential Equations, Vector Calculus and Abstract Algebra | 5 | 4 |

UNIVERSITY OF KERALA

SCHEME AND SYLLABUS

(OUTCOME BASED)

FIRST DEGREE PROGRAMME

IN CHEMISTRY

(BSc)

UNDER CHOICE BASED
CREDIT AND SEMESTER SYSTEM

Core Courses, Foundation Course II,
Open and Elective Courses

2020 ADMISSION ONWARDS

Table I A. Total number of Courses offered in BSc programme

| Sl No. | Courses | No. of courses | Credits semester wise |
|--|-----------------------|------------------------|-----------------------|
| 1 | Language Courses | 9 | 7+10+8+8=33 |
| 2 | Foundation Courses | 2 | 2+3=5 |
| 3 | Complementary Courses | 9 | 5+5+7+11=28 |
| 4 | Core Courses | 14 | 4+3+5+17+17=46 |
| 5 | Open Course | 1 | 2 |
| 6 | Elective Course | 1 | 2 |
| 7 | Project | 1 | 4 |
| Total number of Courses | | 37 | |
| Total number of credits in all six semesters | | 18+18+18+24+19+23=120. | 120 |

Table II. Scheme of instruction of Core Courses, Foundation Course II, Open Course and Elective Course

| Course No. Course code | Course Title | Sem I | | Sem II | | Sem III | | Sem IV | | Sem V | | Sem VI | | Total | |
|---------------------------|--|---------|---|---------|---|---------|---|---------|---|---------|---|---------|---|-------|---|
| | | Hrs L/P | C | Hrs L/P | C | Hrs L/P | C | Hrs L/P | C | Hrs L/P | C | Hrs L/P | C | Hrs | C |
| C.C.I CH1141 | Inorganic Chemistry I | 2/2 | 4 | | | | | | | | | | | 2 | 4 |
| F.C.II CH1221 | Chemistry-its Origin, Methodology and Impacts | | | 2/2 | 3 | | | | | | | | | 4 | 3 |
| C.C.II CH1341 | Inorganic Chemistry II | | | | | 3/-- | 3 | | | | | | | | 3 |
| C.C.III CH1441 | Organic Chemistry I | | | | | | | | | | | | | | 3 |
| C.C.IV CH1442 | Lab I of CH1141, CH1341 & CH1441 (Inorganic Qualitative Analysis) | | | | | --/2 | | --/2 | 2 | | | | | 6 | 2 |
| C.C.V CH1541 | Physical Chemistry I | | | | | | | | | 3/-- | 4 | | | 3 | 4 |
| C.C.VI CH1542 | Inorganic Chemistry III | | | | | | | | | 4/-- | 4 | | | 4 | 4 |
| C.C.VII CH1543 | Organic Chemistry II | | | | | | | | | 4/-- | 4 | | | 4 | 4 |
| C.C.VIII CH1544 | Lab II of CH1541, CH1542 & CH1543 (Inorganic Volumetric Analysis) | | | | | | | | | --/5 | 3 | | | 5 | 3 |
| C.C.IX CH1545 | Lab III of CH1541, CH1542 & CH1543 (Physical Chemistry Experiments) | | | | | | | | | --/4 | 2 | | | 4 | 2 |
| O.C CH1551 | Open to other majors | | | | | | | | | 3/-- | 2 | | | 3 | 2 |
| C.C.X CH1641 | Physical Chemistry II | | | | | | | | | | | 3/-- | 4 | 3 | 4 |

| | | | | | | | | | | | | | |
|-------------------------|---|----------|----------|----------|----------|-----------|-----------|-----------|------|------|---|---|---|
| C.CXI CH1642 | Organic Chemistry III | | | | | | | | | 4/-- | 4 | 4 | 4 |
| C.CXII CH1643 | Physical Chemistry III | | | | | | | | | 4/-- | 4 | 4 | 4 |
| C.C.XIII CH1644 | Lab Course IV (Organic Chemistry Experiments) | | | | | | | | | --/5 | 3 | 5 | 3 |
| C.C.XIV CH1645 | Lab Course V (Gravimetric Experiments) | | | | | | | | | --/3 | 2 | 3 | 2 |
| E.C CH1661 | Any one of the options | | | | | | | | | 3/-- | 2 | 3 | 2 |
| C.C.XV CH1646 | Project | | | | | | | | --/2 | --/3 | 4 | 5 | 4 |
| | Factory visit | | | | | | | | | | | | |
| Credits/Semester | | 4 | 3 | 3 | 5 | 19 | 23 | 57 | | | | | |

C.C-Core Course, F.C-Foundation Course, O.C-Open Course, E.C-Elective Course
L-Theory, P-Practical, C-Credit

B.Sc. Degree Programme in Chemistry
Table III. Open Course offered to students of other disciplines
Semester V

| Semester | No. of Hours / Week | | Credits | Course Code | Title of the Course | Instructional Hours |
|----------|---------------------|---|---------|-------------|--|---------------------|
| | L | P | | | | |
| V | 3 | - | 2 | CH1551.1 | Chemistry and its Application | 54 |
| | | | | CH 1551.2 | Fundamentals of Chemistry & Its Application to Everyday Life | |
| | | | | CH 1551.3 | Environmental Chemistry | |

B.Sc. Degree Programme in Chemistry
Table IV. Elective Course offered in Semester VI

| Semester | No. of Hours / Week | | Credits | Course Code | Title of the Course | Instructional Hours |
|----------|---------------------|---|---------|-------------|---|---------------------|
| | L | P | | | | |
| VI | 3 | - | 2 | CH1661.1 | Supramolecular, Nano Particles and Green Chemistry | 54 |
| | | | | CH 1661.2 | Computational, Combinatorial and Physical Organic Chemistry | |
| | | | | CH 1661.3 | Polymer chemistry | |
| | | | | CH 1661.4 | Biochemistry | |

UNIVERSITY OF KERALA
THIRUVANANTHAPURAM



COURSE STRUCTURE AND SYLLABUS

FOR

FIRST DEGREE PROGRAMME

IN

BOTANY

UNDER

CHOICE BASED CREDIT- SEMESTER SYSTEM
(w.e.f. 2014 admission)

Table 4. SEMESTER – III

| Sem No. | Course Code | Course Title | Instructional hours/week | | Credits | Uty Exam Duration | Evaluation | | Total credits |
|---------|---------------|---|--------------------------|---|---------|-------------------|------------|-----------------|---------------|
| | | | T | P | | | Internal | University exam | |
| III | EN1311 | English Language IV | 5 | - | 4 | ” | 25% | 75% | 17 |
| | 1311 | Additional Language III | 5 | - | 4 | | | | |
| | BO1341 | Core Course II- Microbiology, Phycology, Mycology, Lichenology & Plant Pathology | 3 | 2 | 3 | | | | |
| | CH/BC133 1 | Compl. Course V(CH/BC) | 3 | 2 | 3 | | | | |
| | ZO1331 | Complementary Course VI(ZO) | 3 | 2 | 3 | | | | |

Table 5. SEMESTER –IV

| Sem No. | Course Code | Course Title | Instructional hours/week | | Credits | Uty Exam Duration | Evaluation | | Total credit |
|---------|-------------|--|--------------------------|----------|---------|-------------------|------------|-----------------|--------------|
| | | | T | P | | | Internal | University exam | |
| IV | EN1411 | English Language V | | -- | | ” | 25% | 75% | 25 |
| | 1411 | Additional Language IV | 5 | - | 4 | | | | |
| | BO1441 | Core Course III- Bryology, Pteridology, Gymnosperms &Paleobotany | 5 | 2 | 4 | | | | |
| | | | 3 | | 3 | | | | |
| | CH/BC1431 | Compl.CourseVII(CH/BC) | | 2 | | | | | |
| | ZO1431 | Complementary CourseVIII(ZO) | 3 | 2 (8) | 3 | | | | |
| | CH/BC1432 | Compl IX (Practical CH/BC) | 3 | * | 3 | | | | |
| | ZO1432 | Compl X (Practical ZO) | - | (8) * | 4 | | | | |

Table 6. SEMESTER - V

| Sem No. | Course Code | Course Title | Instructional hours/week | | Credits | Uty Exam Duration | Evaluation | | Total credits |
|---------|-------------|--|--------------------------|------|---------|-------------------|------------|-----------------|---------------|
| | | | T | P | | | Internal | University exam | |
| V | BO1541 | Core Course IV - Angiosperm Morphology, Systematic botany, Economic botany, Ethno botany & Pharmacognosy | 4 | 3 | 4 | " | 25% | 75% | 20 |
| | BO1542 | Core Course V- Environmental Studies & Phytogeography | 5 | 2 | 4 | | | | |
| | BO1543 | Core Course VI- Cell Biology, Genetics & Evolutionary Biology | 4 | 2 | 3 | " | | | |
| | BO1544 | Core (Practical-1) VII (BO1141, BO1221) | - | 2 | 3 | " | | | |
| | BO1545 | Core (Practical-2)VIII (BO1341 & BO1441) | - | (4)* | 4 | " | | | |
| | BO1551.1 | Open Course I Horticulture | - | (4)* | - | " | | | |
| | BO1551.2 | Mushroom cultivation & Marketing | 3 | - | 2 | | | | |
| | BO1551.3 | Forestry Project | - | - | - | | | | |

Table 7. SEMESTER – VI

| Sem No. | Course Code | Course Title | Instructional hours/week | | Credits | Uty Exam Duration | Evaluation | | Total credits |
|---------|-------------|---|--------------------------|------|---------|-------------------|------------|-----------------|---------------|
| | | | T | P | | | Internal | University exam | |
| VI | BO1641 | Core Course IX Plant physiology &Biochemistry | 5 | 2 | 4 | ” | 25% | 75% | 25 |
| | BO1642 | Core Course X- Molecular Biology, General informatics and Bioinformatics | 4 | 2 | 4 | ” , | | | |
| | BO1643 | Core Course XI- Plant breeding, Horticulture & Research methodology | 4 | 2 | 4 | , | | | |
| | BO1644 | Core (Practical-3)XII (BO1541 & BO1542) | - | (5)* | 3 | ” | | | |
| | BO1645 | Core (Practical-4)XIII IV (BO1543, BO1641,BO1642, 1643) | - | (8)* | 4 | ” | | | |
| | BO1651 | Open Course II- Biotechnology & Nano biotechnology | 3 | - | 2 | ” | | | |
| | BO1646 | Project | - | 3 | 4 | | | | |

Table 9. Scheme of Evaluation of Foundation Course II, Core Courses, Open Courses & Project

| Semester | Course Code | Course Title | Marks | | Duration of University Exam. |
|----------|----------------------------------|---|---------------------------------|-----|------------------------------|
| | | | CE | ESE | |
| I | BO1141 | Angiosperm anatomy Reproductive Botany & Palynology | 20 | 80 | 3 hrs |
| II | BO1221 | Methodology & Perspectives in Plant Science | 20 | 80 | 3 hrs |
| III | BO1341 | Microbiology, Phycology, Mycology Lichenology & Plant Pathology | 20 | 80 | 3 hrs |
| IV | BO1441 | Bryology, Pteridology, Gymnosperms & Paleobotany | 20 | 80 | 3 hrs |
| V | BO1541 | Angiosperm Morphology Systematic botany, Economic botany Ethno botany & Pharmacognosy | 20 | 80 | 3 hrs |
| | BO1542 | Environmental Studies & Phytogeography | 20 | 80 | 3 hrs |
| | BO1543 | Cell biology, Genetics & Evolutionary Biology | 20 | 80 | 3 hrs |
| | BO1544 | Practical-I (BO1141, BO1221) | 20 | 80 | 3 hrs |
| | BO1545 | Practical-II (BO1341 & BO1441) | 20 | 80 | 3 hrs |
| | BO1551.1 BO1551.2 BO1551.3 | Horticulture Mushroom cultivation & Marketing Forestry | 20 | 80 | 3 hrs |
| | VI | BO1641 | Plant Physiology & Biochemistry | 20 | 80 |
| BO1642 | | Molecular Biology, General informatics and Bioinformatics | 20 | 80 | 3 hrs |
| BO1643 | | Plant breeding, Horticulture & Research methodology | 20 | 80 | 3 hrs |
| BO1644 | | Practical-III (BO1541 & BO1542) | 20 | 80 | 3 hrs |
| BO1645 | | Practical-IV (BO1543, BO1641, BO1642, 1643) | 20 | 80 | 3 hrs |
| BO1651 | | Biotechnology & Nano biotechnology | 20 | 80 | 3 hrs |
| BO1646 | | Project report, Tour Diary, Viva-Voce | 20 | 80 | - |

UNIVERSITY OF KERALA



Revised Syllabus for
M. A. Degree Programme
in
English Language and Literature

Prepared by
The P. G. Board of Studies in English 2014-17

w. e. f. 2017 admission onwards

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| 1. EL233.1: European Drama | 69 |
| 2. EL233.2: Canadian and Australian Literature | 72 |
| 3. EL233.3: Film Studies | 74 |
| 4. EL233.4: Kerala Studies | 78 |
| 5. EL233.5: Women's Writing | 83 |
| Paper XII: EL234 | |
| 6. EL234.1: European Fiction | 86 |
| 7. EL234.2: African and Caribbean Literature | 88 |

COURSE STRUCTURE

| Semester | Course Credits | Course Code | Course Paper | Instructional Hours/Week | Marks | | |
|------------|-------------------|----------------|---|-----------------------------|-------|-----|-------|
| | | | | | EP | CA | Total |
| Paper 1 | Core | EL211 | Chaucer to the Elizabethan Age | 6 | 75 | 25 | 100 |
| Paper 2 | Core | EL212 | Shakespeare Studies | 6 | 75 | 25 | 100 |
| Paper 3 | Core | EL213 | The Augustan Age | 6 | 75 | 25 | 100 |
| Paper 4 | Core | EL214 | Romances and Victorians | 7 | 75 | 25 | 100 |
| Semester 2 | | | | | | | |
| Paper 5 | Core | EL221 | From Medieval to the Renaissance | 6 | 75 | 25 | 100 |
| Paper 6 | Core | EL222 | Indian Writing in English | 5 | 75 | 25 | 100 |
| Paper 7 | Core | EL223 | American Literature | 6 | 75 | 25 | 100 |
| Paper 8 | Core | EL224 | Critical Studies I | 7 | 75 | 25 | 100 |
| Semester 3 | | | | | | | |
| Paper 9 | Core | EL231 | Language and Structure of the English Language | 5 | 75 | 25 | 100 |
| Paper 10 | Core | EL232 | Critical Studies II | 7 | 75 | 25 | 100 |
| Paper 11 | Elective 1 | EL233 | | 6 | 75 | 25 | 100 |
| Paper 12 | Elective 2 | EL234 | | 6 | 75 | 25 | 100 |
| Semester 4 | | | | | | | |
| Paper 13 | Core | EL241 | English Language Teaching | 6 | 75 | 25 | 100 |
| Paper 14 | Core | EL242 | Cultural Studies | 7 | 75 | 25 | 100 |
| Paper 15 | Elective 3 | EL243 | | 6 | 75 | 25 | 100 |
| Paper 16 | Elective 4 | EL244 | | 6 | 75 | 25 | 100 |
| Paper 17 | Comp Pap | EL245 | Comparative Paper | | | 100 | |
| Paper 18 | Project | EL246 | Project | | 80 | | 100 |
| | | | Project work V & VI | | 20 | | |
| | | | Grand Total | | | | 1800 |

UNIVERSITY OF KERALA

Syllabus for

M.Sc Degree Program in Physics with specialization in Space Physics

(With effect from 2020 admissions)

UNIVERSITY OF KERALA
M.Sc Physics (with specialization in Space Physics) Degree Program
(Effective from 2020 admissions)

A: COURSE STRUCTURE & MARK DISTRIBUTION

| Semester | Paper Code | Title of Paper | Contact hours per week | | | UE duration (h) | Maximum marks | | |
|----------|----------------------------|---|------------------------|----|-----|-----------------|---------------|-----|-------|
| | | | L | T | P | | IA | UE | Total |
| I | PH 211 | Classical Mechanics | 6 | 1 | ... | 3 | 25 | 75 | 100 |
| | PH 212 | Mathematical Physics | 6 | 1 | ... | 3 | 25 | 75 | 100 |
| | PH 213 | Basic Electronics | 6 | 1 | ... | 3 | 25 | 75 | 100 |
| | PH 251 | General Physics Practicals | ... | 1 | 3 | ... | ... | ... | ... |
| | PH 252 | Electronics & Computer Science Practicals | ... | 1 | 4 | ... | ... | ... | ... |
| | Total for Semester I (S1) | | | 18 | 5 | 7 | ... | 75 | 225 |
| II | PH 221 | Modern Optics & Electromagnetic theory | 6 | 1 | ... | 3 | 25 | 75 | 100 |
| | PH 222 | Thermodynamics, Statistical Physics & Basic Quantum Mechanics | 6 | 1 | ... | 3 | 25 | 75 | 100 |
| | PH 223 | Computer Science & Numerical Techniques | 6 | 1 | ... | 3 | 25 | 75 | 100 |
| | PH 251 | General Physics Practicals | ... | 1 | 3 | 6 | 25 | 75* | 100 |
| | PH 252 | Electronics & Computer Science Practicals | ... | 1 | 4 | 6 | 25 | 75* | 100 |
| | Total for Semester II (S2) | | | 18 | 5 | 7 | ... | 125 | 375 |

| | | | | | | | | | |
|--------------------|-----------------------------|-----------------------------------|-----|-----|-----|-----|------------|-------------|-------------|
| III | PH 231 | Advanced Quantum Mechanics | 6 | 1 | ... | 3 | 25 | 75 | 100 |
| | PH 232 | Atomic and Molecular Spectroscopy | 6 | 1 | ... | 3 | 25 | 75 | 100 |
| | PH 233 | Condensed Matter Physics | 6 | 1 | ... | 3 | 25 | 75 | 100 |
| | PHS 234 | Physics of the Atmosphere | 7 | 1 | ... | 3 | 25 | 75 | 100 |
| | Total for Semester III (S3) | | | 25 | 4 | | | 100 | 300 |
| IV | PH 241 | Nuclear & Particle Physics | 6 | 1 | ... | 3 | 25 | 75 | 100 |
| | PHS 242 | Space Physics | 5 | 1 | ... | | 25 | 75 | 100 |
| | PHS 243 | Introduction to Astrophysics | 5 | 1 | | | 25 | 75 | 100 |
| | PHS 244 | Lab: Space Physics | ... | ... | 5 | 6 | 25 | 75* | 100 |
| | PHS 245 | Project | ... | ... | 4 | ... | 25 | 75 | 100 |
| | PHS 246 | Viva voce | ... | ... | ... | ... | ... | 100 | 100 |
| | Total for Semester IV (S4) | | | 16 | 3 | 9 | ... | 125 | 475 |
| Grand Total | | | | | | ... | 425 | 1375 | 1800 |

* 10 marks for records

L - Lecture IA - Internal Assessment

T - Tutorial UE - University Exam

P - Practical



UNIVERSITY OF KERALA

**SYLLABUS FOR
M.Sc. PROGRAMME IN
ENVIRONMENTAL SCIENCES**

**(Revised Syllabi under Semester System
with effect from 2018 Admission)**

M. Sc. ENVIRONMENTAL SCIENCES
COURSE STRUCTURE, MARK DISTRIBUTION AND SYLLABUS

SEMESTER I

| Paper code | Title of Paper | No. of hours per semester (Lecture + Practical) | No. of hours per week (Lecture and Practical) | | ESA Duration | CA (Continuous Assessment) | ESA (End Semester Assessment) | Maximum Marks |
|------------|--|---|---|---|--------------|----------------------------|-------------------------------|---------------|
| | | | L | P | | | | |
| ES211 | Environmental Biology and Ecosystem Dynamics | 90 + 72 | 5 | 4 | 3 hrs | 25 | 75 | 100 |
| ES212 | Environmental Geology | 90 + 72 | 5 | 4 | 3hrs | 25 | 75 | 100 |
| ES213 | Natural Resources and Energy Management | 90 + 36 | 5 | 2 | 3 hrs | 25 | 75 | 100 |
| ES214 | Practical I | 180 | | | 4 | 25 | 75 | 100 |

SEMESTER II

| Paper code | Title of the paper | No. of hours per semester (Lecture + Practical) | No. of hours per week (Lecture and Practical) | | ESA Duration | CA (Continuous Assessment) | ESA (End Semester Assessment) | Maximum Marks |
|------------|--|---|---|---|--------------|----------------------------|-------------------------------|---------------|
| | | | L | P | | | | |
| ES221 | Environmental Chemistry | 90 + 72 | 5 | 4 | 3 hrs | 25 | 75 | 100 |
| ES222 | Environmental Techniques | 90 + 72 | 5 | 4 | 3 hrs | 25 | 75 | 100 |
| ES223 | Environmental Pollution and Toxicology | 90 + 36 | 5 | 2 | 3 hrs | 25 | 75 | 100 |
| ES224 | Practical II | 180 | | | 4 hrs | 25 | 75 | 100 |

SEMESTER III

| Paper code | Title of the paper | No. of hours per semester (Lecture + Practical) | No. of hours per week (Lecture and Practical) | | ESA Duration | CA (Continuous Assessment) | ESA (End Semester Assessment) | Maximum Marks |
|------------|--|---|---|---|--------------|----------------------------|-------------------------------|---------------|
| | | | L | P | | | | |
| ES 231 | Remote Sensing and GIS | 90 + 72 | 5 | 4 | 3 hrs | 25 | 75 | 100 |
| ES232 | Environmental Genetics, Microbiology and Biotechnology | 90 + 72 | 5 | 4 | 3 hrs | 25 | 75 | 100 |
| ES 233 | Environmental Meteorology and Climate Change | 90 | 5 | - | 3 hrs | 25 | 75 | 100 |
| ES 234 | Practical III | 144 | - | - | 4 hrs | 25 | 75 | 100 |
| ES 235 | Project Work | 36 | - | 2 | - | - | - | - |

SEMESTER IV

| Paper code | Title of the paper | No. of hours per semester (Lecture + Practical) | No. of hours per week (Lecture and Practical) | | ESA Duration | CA (Continuous Assessment) | ESA (End Semester Assessment) | Maximum Marks |
|--------------|--|---|---|---|--------------|----------------------------|-------------------------------|---------------|
| | | | L | P | | | | |
| ES 241 | Environmental Engineering and Waste Management | 90 + 36 | 5 | 2 | 3 hrs | 25 | 75 | 100 |
| ES242 | Environmental Economics, Impact Assessment and Disaster Management | 90 + 36 | 5 | 2 | 3 hrs | 25 | 75 | 100 |
| ES 243 | Environmental Policies and Law | 90 | 5 | - | 3 hrs | 25 | 75 | 100 |
| ES 244 | Practical IV | 72 | - | - | 4 hrs | 25 | 75 | 100 |
| ES 235 | Project Work | 108 | - | 6 | - | - | - | 100 |
| | Viva-voce | - | - | - | - | - | - | 100 |
| Total | 1800 | | | | | | | |

University of Kerala

M.Com Degree Programme

(under Semester Pattern in the Affiliated Colleges)

w.e.f 2018 onwards

Scheme and Syllabus
(from 2018 Admission onwards)

| SEMESTER I | | | Marks | | |
|-------------------|--------------|---|--------------|------------|--------------|
| Code | Paper | Subject | CA | ESA | Total |
| CO 211 | Paper1 | Business Ethics and Corporate Governance | 25 | 75 | 100 |
| CO 212 | Paper2 | Legal Framework for Business | 25 | 75 | 100 |
| CO 213 | Paper3 | Research Methodology | 25 | 75 | 100 |
| CO 214 | Paper4 | Planning and Development Administration | 25 | 75 | 100 |
| CO 215 | Paper5 | Advanced Corporate Accounting and Reporting | 25 | 75 | 100 |
| Total | | | 125 | 375 | 500 |

| SEMESTER II | | | Marks | | |
|--------------------|--------------|---|--------------|------------|--------------|
| Code | Paper | Subject | CA | ESA | Total |
| C0 221 | Paper 1 | E-Business and Cyber Laws | 25 | 75 | 100 |
| C0 222 | Paper 2 | Strategic Management | 25 | 75 | 100 |
| C0 223 | Paper 3 | Quantitative Techniques and Financial Econometrics | 25 | 75 | 100 |
| C0 224 | Paper 4 | International Business | 25 | 75 | 100 |
| C0 225 | Paper 5 | Investment Management | 25 | 75 | 100 |
| Total | | | 125 | 375 | 500 |

Summer Internship

Elective - FINANCE

| SEMESTER III | | | Marks | | |
|---------------------|--------------|--|--------------|------------|--------------|
| Code | Paper | Subject | CA | ESA | Total |
| CO 231U | Paper1 | Income tax Planning and Management | 25 | 75 | 100 |
| CO 232F | Paper2 | Security Analysis and Portfolio Management | 25 | 75 | 100 |
| CO 233F | Paper3 | International Financial Management | 25 | 75 | 100 |
| CO 234F | Paper4 | Strategic Cost and Management Accounting | 25 | 75 | 100 |
| Total | | | 100 | 300 | 400 |

| SEMESTER IV | | | | Marks | | |
|--------------------|--------------|---|-----------|--------------|--------------|--|
| Code | Paper | Subject | CA | ESA | Total | |
| CO 241W | Paper 1 | Goods and Service tax & Customs Duty-Law and Practice | 25 | 75 | 100 | |
| CO 242F | Paper 2 | Risk Management and Derivatives | 25 | 75 | 100 | |
| CO 243F | Paper 3 | Accounting Standards | 25 | 75 | 100 | |
| CO 244S | Paper 4 | Management Optimization Techniques | 25 | 75 | 100 | |
| Total | | | 100 | 300 | 400 | |
| Project Report | | | | | 100 | |
| Comprehensive Viva | | | | | 100 | |
| Grand Total | | | | | 2000 | |

Elective - INFORMATION TECHNOLOGY & E-BUSINESS

| SEMESTER III | | | | Marks | | |
|---------------------|--------------|--|------------|----------------|------------------|--------------|
| Code | Paper | Subject | CA | ESA | | Total |
| | | | | Written | Practical | |
| CO 231 E | Paper 1 | Office Automation | 25 | 50 | 25 | 100 |
| CO 232 E | Paper 2 | Internet and Web Designing | 25 | 50 | 25 | 100 |
| CO 233 R | Paper 3 | Management of Intellectual Property Rights | 25 | 75 | - | 100 |
| CO 234 E | Paper 4 | Legal Frame work for Information Technology Based Business | 25 | 75 | - | 100 |
| Total | | | 100 | 300 | | 400 |

| SEMESTER IV | | | Marks | | | |
|-------------|---------|--|-------|---------|-----------|-------------|
| Code | Paper | Subject | CA | ESA | Total | |
| | | | | Written | Practical | |
| CO 241 E | Paper1 | Database Management and Information Technology | 25 | 50 | 25 | 100 |
| CO 242 E | Paper 2 | E -Banking and Business Models | 25 | 75 | - | 100 |
| CO 243 E | Paper 3 | E- Commerce and Global Marketing | 25 | 75 | - | 100 |
| CO 244 S | Paper 4 | Management Optimization Techniques | 25 | 75 | - | 100 |
| | | Total | 100 | 300 | | 400 |
| | | Project Report | | | | 100 |
| | | Comprehensive Viva | | | | 100 |
| | | Grand Total | | | | 2000 |

Elective - INTERNATIONAL TRADE

| SEMESTER III | | | Marks | | | |
|--------------|---------|--|-------|-----|-------|-----|
| Code | Paper | Subject | CA | ESA | Total | |
| CO 231 T | Paper1 | Foreign Language (Any one paper) CO 231.1 T Foreign Language: Arabic | | | | |
| | | CO 231.2 T Foreign Language: French | 25 | 75 | | 100 |
| | | CO 231.3 T Foreign Language : German | | | | |
| CO 232 T | Paper 2 | International Trade and Documentation Management of Intellectual Property | 25 | 75 | | 100 |
| CO 233 R | Paper 3 | Rights | 25 | 75 | | 100 |
| CO 234 Y | Paper 4 | FOREX Management | 25 | 75 | | 100 |
| | | Total | 100 | 300 | | 400 |

SEMESTER IV

| Code | Paper | Subject | CA | Marks | |
|--------------------|--------|---|------------|------------|-------------|
| | | | | ESA | Total |
| CO 241 Z | Paper1 | Logistics and Supply Chain Management | 25 | 75 | 100 |
| CO 242 T | Paper2 | Strategic Management for MNCs | 25 | 75 | 100 |
| CO 243 T | Paper3 | Legal Framework for International Trade | 25 | 75 | 100 |
| CO 244 S | Paper4 | Management Optimization Techniques | 25 | 75 | 100 |
| Total | | | 100 | 300 | 400 |
| Project Report | | | | | 100 |
| Comprehensive Viva | | | | | 100 |
| Grand Total | | | | | 2000 |

Elective - MARKETING**SEMESTER III**

| Code | Paper | Subject | CA | Marks | |
|--------------|---------|----------------------------------|------------|------------|------------|
| | | | | ESA | Total |
| CO 231M | Paper 1 | Agricultural and Rural Marketing | 25 | 75 | 100 |
| CO 232M | Paper 2 | International Marketing | 25 | 75 | 100 |
| CO 233M | Paper 3 | Marketing Research | 25 | 75 | 100 |
| CO 234M | Paper 4 | Marketing Communication | 25 | 75 | 100 |
| Total | | | 100 | 300 | 400 |

SEMESTER IV

| Code | Paper | Subject | CA | Marks | |
|--------------------|--------|---------------------------------------|------------|------------|-------------|
| | | | | ESA | Total |
| CO 241Z | Paper1 | Logistics and Supply Chain Management | 25 | 75 | 100 |
| CO 242M | Paper2 | Industrial Marketing | 25 | 75 | 100 |
| CO 243M | Paper3 | Services Marketing | 25 | 75 | 100 |
| CO 244S | Paper4 | Management Optimization Techniques | 25 | 75 | 100 |
| Total | | | 100 | 300 | 400 |
| Project Report | | | | | 100 |
| Comprehensive Viva | | | | | 100 |
| Grand Total | | | | | 2000 |