



MINUTES
of
21st ACADEMIC COUNCIL MEETING

Date: Tuesday, 16th August 2022

Time: 03.00 P.M.

Venue: Hadrian Hall




J. John
Principal
(Autonomous)

techniques. Callus induction- organogenesis and embryogenesis. Transplanting, hardening, package and transportation of tissue cultured plantlets. Module 6 Self Employment Opportunities 3 hrs Funding Agencies and self-employment schemes, Procedure to get financial support, special scheme for women empowerment. Hands on Training 15 hrs 1. Prepare a chart showing the NPK composition of minimum 6 manures and fertilizers. 2. Identification and familiarization of the following organic manures- cow dung (Dry), Coconut cake, Vermicompost, neem cake, Organic mixture, Bone meal. 3. Preparation of potting mixture. 4. Make a Vermicompost pit /pot in the campus/ house of the student. 5. Familiarization of common garden tools and implements. 6. Estimation of germination percentage of seeds 7. Demonstrate the effect of a rooting hormone on stem cutting. 8. Demonstration of T budding, epicotyle grafting and air layering on live plants 9. Familiarization of garden components from photographs 10. Familiarization of different mushrooms and preparation of a polybag of Pleurotus using straw/sawdust 11. Visit to a well-established tissue culture lab, nursery and mushroom cultivation unit. 12. Familiarization of common cut flowers in Kerala	preparation. 3. Demonstration of T-budding, epicotyle grafting and air layering on live plants. 4. Demonstration of mushroom cultivation. 5. Visit to a well-established tissue culture lab. 6. Familiarization of common cut flowers in Kerala. 7. Fresh cut flower arrangement. 8. Preparation and arrangement of dry flowers.
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13. Fresh cut flower arrangement 14. Preparation and arrangement of dry flowers 15. Interaction with funding agencies	
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2. Phytochemistry and Pharmacognosy (Elective): 23U6CRBOTT13: Semester 6

Pre-revised syllabus	Revised Syllabus
Module 1 Introduction (2 hrs) Introduction to phytochemical approaches – morphological-organoleptic-microscopic- to study drug and aromatic plants Module 2 Extraction and characterization techniques (4 hrs) Cold extraction- hot extraction—soxhlet apparatus, clevenger apparatus; Solvents - petroleum ether, chloroform, ethanol, methanol, water. Separation technique-TLC, Column, HPLC. Characterization technique-GC/MS, HPTLC, UV Spectra, IR Spectra. Module 3 Study of the drug plants and their active principles (10 hrs) A. Alkaloids – introduction, properties, occurrence, structure, classification, functions, and pharmacological uses.	Module 1 Introduction(2 hours) Introduction to phytochemical approaches – morphological-organoleptic-microscopic- to study drug and aromatic plants Module 2 Extraction and characterization techniques (8 hours) Cold extraction- hot extraction—Soxhlet apparatus, Clevenger apparatus; Solvents - petroleum ether, chloroform, ethanol, methanol, water. Separation technique - HPLC. Characterization technique-GC/MS, HPTLC, UV Spectra, IR Spectra. Module 3 Effect of phytochemicals (7 hours) Introduction, properties, occurrence, classification, functions, and pharmacological uses of alkaloids, triterpenoids, phenolics, coumarins and Quinines - benzoquinones,

B. Triterpenoids. Introduction, properties, occurrence, classification, functions and pharmacological uses. C. Phenolics. Quinines- benzoquinones, naphthoquinones, anthraquinone, and coumarins. Module 4 (20 hrs) Study of the following plants with special reference to (1) Habit, habitat and systematic position and morphology of the useful part. (2) Organoleptic, anatomical and chemical evaluation of the officinal part. (3) Phytochemistry and major pharmacological action of plant drugs. (4) Ayurvedic formulations using the plant <i>Tinospora cordifolia</i>, <i>Papaver somniferum</i>, <i>Aegle marmelos</i>, <i>Punica granatum</i>, <i>Plumbago rosea</i>, <i>Adhatoda vasica</i>, <i>Withania somnifera</i>, <i>Achyranthes aspera</i>, <i>Asparagus racemosus</i>, <i>Kaempferia galanga</i>, <i>Sida acuta</i>, <i>Carica papaya</i>, <i>Azadirachta indica</i>, <i>Glycyrrhiza glabra</i>, <i>Phyllanthus neruri</i>, <i>Datura stramonium</i>, <i>Hemidesmus indicus</i>, <i>Aloe vera</i>, <i>Tylophora indica</i>, <i>Acorus calamus</i>. Module 5 Study of the following aromatic plants - volatile oils and methods of extraction 10 hrs <i>Vetiveria zizanioides</i>, <i>Cinnamomum zeylanica</i>, <i>Syzygium aromaticum</i>, <i>Santalum album</i>, <i>Eucalyptus</i>, <i>Ocimum basilicum</i>, <i>Rosa</i>, <i>Mentha piperita</i>, <i>Cymbopogon</i>, <i>Cananga</i>, <i>Pelargonium</i>.	naphthoquinones, anthraquinone. Module 4 (18 hours) Study of the following plants with special reference to (1) Habit, habitat and systematic position and morphology of the useful part. (2) Organoleptic, anatomical and chemical evaluation of the officinal part. (3) Phytochemistry and major pharmacological action of plant drugs. (4) Ayurvedic formulations using the plant <i>Triphala</i> (<i>Emblica officinalis</i>, <i>Terminalia bellerica</i> and <i>Terminalia chebula</i>) <i>Thrikadu</i> (<i>Piper longum</i>, <i>Piper nigrum</i> and <i>Zingiber officinale</i>) and <i>Nalpamaram</i> (<i>Ficus benghalensis</i>, <i>Ficus microcarpa</i>, <i>Ficus racemosa</i> and <i>Ficus religiosa</i>) Module 5 (8 hours) Study of the following aromatic plants - volatile oils and methods of extraction <i>Cymbopogon citratus</i>, <i>Vetiveria zizanioides</i>, <i>Cinnamomum verum</i>, <i>Syzygium aromaticum</i>, <i>Santalum album</i>, <i>Zingiber officinale</i>, <i>Rosa centifolia</i>. Module 6 Pharmacognosy (5 hours) a) Introduction to Pharmacognosy b) Tools for identifying adulteration- microscopic method - study of starch grains (maize, wheat, rice, potato, curcuma.), Use of
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Module 6 Pharmacognosy (4 hrs) Introduction, tools for identifying adulteration; methods in pharmacognosy- microscopy, phytochemical methods- study of starch grains of maize, wheat, rice, potato, curcuma Ethnomedicine (4 hrs) Traditonal plant medicines as a source of new drugs – The process of modern drug discovery using ethnopharmacology – Taxol, Artemisinin, Galathamine and Flavopyridole as examples of drug discovery based on ethanopharmacological approach; Jeevani-Pushpangadan model of benefit sharing.	trichomes. Module 7 Ethnomedicine (6 hours) Traditional plant medicines as a source of new drugs – The process of modern drug discovery using ethnopharmacology – Taxol, Artemisinin, Galantamine and Flavopyridole as examples of drug discovery based on ethanopharmacological approach; Jeevani-Pushpangadan model of benefit sharing.
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3.2 Note of the Board of Studies in Chemistry

Appended below are the decisions of the BoS in Chemistry held on 25/02/2022. These are hereby, submitted for the consideration and approval of the Academic Council of the college.

1. The BoS meeting decided to revise the syllabus based on OBE. The meeting also resolved to revise the Course Outcomes (COs) of all the courses and Program Specific Outcomes (PSOs) of the programme.
2. The meeting also resolved to incorporate cross cutting issues like environment sustainability and professional ethics in different courses.
3. The meeting decided to enrich the syllabus with course with employability contents.
4. The BoS discussed the changes to be incorporated in the BSc Chemistry Syllabus. The meeting finalized the following recommendations on syllabus revision for the approval of academic council.

Theoretical & Inorganic Chemistry:

- Minor modifications in Semester I – Theoretical and Inorganic Chemistry I and Semester II - Theoretical and Inorganic Chemistry II courses.
- New aspects of air, water and soil pollutions were introduced in Semester V – Environmental Chemistry course.
- New synthetic methods and application of nanomaterials are introduced in Semester V – Environmental Chemistry course.

- A new section on 'Boranes' is introduced in Semester VI- Inorganic Chemistry course.
- 'Modern analytical techniques' is introduced in Semester VI- Applied Inorganic Chemistry.

Organic Chemistry:

- Minor modification and introduction of *Bayer's Strain theory* is introduced in Semester III - Organic Chemistry I.
- Two topics, 'Dyes' and "soaps & detergents" are introduced in Semester IV – Organic Chemistry-II.
- Pericyclic reactions, Conformational analysis and organic reagents are introduced in Semester V – Organic Chemistry-III.

Physical Chemistry:

- "*Le Chatelier's principle*" is added to Semester IV - Physical Chemistry I and *Stern -Volmer equation and quenching* is added to Semester IV - Physical Chemistry II courses.
- Surface Chemistry with 9 contact hours has been enriched in Semester V - Physical Chemistry III course.

Complementary Chemistry Courses for Physics students:

- The two complementary chemistry courses for physics students have been revised extensively by introducing new topics.
- The title of the Semester III - Physical Chemistry Course may be changed to "***Fundamentals of Physical Chemistry***" and "*Chemical Kinetics*" and "*Gaseous State*" are added.
- The title of the Semester III - Physical Chemistry Course may be changed to "***Advanced Physical Chemistry***" and include the course *Nanomaterials*.

Complementary Chemistry Courses for Botany and Zoology students:

- "*Enzyme Kinetics*" is introduced in Semester IV – Advanced Bio-Organic Chemistry course.
5. The BoS discussed the introduction of a new Certificate course in Informatics. The course introduces life science informatics, an interdisciplinary area on the interface of chemistry, informatics and biology.
 6. The BoS decided to introduce a new value-added course on "Cosmetics and Sanitary Formulations". The duration of the course is 30 Hours. This value-added course teaches the essentials of advanced cosmetic science, sanitary formulations and formulation skills to ensure the development of safe, stable and efficacious formulations along with essential quality checks.

3.3 Note of the Board of Studies in Communication

The following decisions have been taken by the BoS in communication.

(a) BA Animation and Visual effects

1. Decided to follow the syllabus of the course 'History of Art and Design' of the programme

BA Animation & Graphic Design for the course 'History of Art and Design' of the programme
BA Animation & Visual Effects.

2. Decided to change the titles of the following courses of BA Animation & Visual Effects.

PROGRAMME	SEMESTER	EXISTING COURSE TITLE	SUGGESTED NEW COURSE TITLE
BA ANIMATION AND VISUAL EFFECTS	3	PAINTING WITH PIXELS	DIGITAL MATTE PAINTINGS
	4	2D ANIMATION IN FLASH	2D DIGITAL ANIMATION

(b) B.A. Mass Communication and Journalism

1. Title Change: *Introduction to Online Journalism(19U3CPBCJ3)*(Semester 3) to be changed to *Online Journalism(23U3CPBCJ3)*
2. The courses *Specialised Journalism & Developmental Communication* to be moved from Semester 5 to semester 6.
3. The courses *PR and Corporate Communication & Media Management, Laws and Ethics* to be moved from Semester 6 to semester 5.
4. The course Online Journalism of semester 3 has completely been revised in content.

ONLINE JOURNALISM (23U3CPBCJ3)

- COs have been added.
- Changes in Modules made are as follows:

Module 1 - Networked society

Existing Topics	Revised Topics
History of computers and Internet, Internet as a medium of communication; Trends in internet usage in India. Basics of computer hardware and software – I/O devices, CPU, Storage devices, Types of software, common operating systems.	Networked Society - Development of internet and online journalism – Web 1.0, web 2.0, web 3.0, Semantic web and beyond - Interactivity, Crowdsourcing, RSS, Mashups, Widgets, Folksonomy, Social bookmarking, CC, Metrics, Analytics, Passive democratic fundraising (A/B testing) tactics, New concepts

Module 2 – Computer Assisted Journalism

Existing Topics	Revised Topics

Features of online journalism — hypertext, multimedia; online aesthetics — content, design, colors, font, templates, navigation bars, and hyperlinks, Basics of MS-Word, MS-Power point, DTP	CAJ (computer assisted journalism) / CAR (computer assisted reporting) - Newsroom for online journalism - Backpack journalism - Non-linear storytelling - New Styles for writing - visual language, micro-content, narrative journalism
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Module 3 – Marketing for the Web

Existing Topics	Revised Topics
Annotative reporting and strengths and limitations; citizen journalism; portals; blogging, podcasting, vodcasting, microblogging.	SEO, AdSense, AdWords, PPC, Pops, Ad-blocks, Direct mail, new techniques - Journalism as conversation – Audience development, Social media, Blogs, Comments, Feedbacks, Opinion polls, Message boards, Messenger, Chat rooms, Games, Quiz - Ethical practices involving the Internet and social media

Module 4 – Mobile Journalism

Existing Topics	Revised Topics
Latest trends in computing – Augmented reality, Wearable computing, Internet of Things (IoT)	Mobile Journalism - Photos for web – forms and format, still, gallery, slideshow - Audio for web – forms and format, Internet Radio, Audio boo, Soundcloud - Video for web –forms and format, Narrowcasting, Personal casting, blogging, podcasting, vodcasting, microblogging – Data journalism

(c) BA Animation and Graphic Design

2D Digital Animation course of Semester 6 has been added to Advanced Cel Animation of Semester 4. This core course has been renamed as '**Advanced 2D Digital animation**'. Accordingly, the credits of the courses of semester 4 and 6 are changed as follows

SEMESTER 4					
23U4RJAGD4	Advanced 2D Digital Animation	Project	Core	5	5

23U4PCAGD3	Publication Design	Practical	Complementary	4	5
23U4PRAGD6	Design for Web	Practical	Core	4	5
23U4PRAGD7	Digital Illustration	Practical	Core	4	5
23U4PRAGD8	Techniques of 3D Animation	Practical	Core	4	5
				21	25

SEMESTER 6					
23U6INAGD1	Internship	OJT		2	
23U6RJAGD5	Animation Project	Project	Core	7	10
23U6RJAGD6	Design Project	Project	Core	7	10
	Choice Based Project (Elective)			3	5
23U6EJAGD1	A. Visual Effects Project	Project	Core		
23U6EJAGD2	B. Advertising Design	Project	Core		
23U6EJAGD3	C. UI Design	Project	Core		
				19	25
Total Credits: 120					

(d) Eligibility for admission to MA CINEMA AND TELEVISION

The BoS proposed to change the eligibility for admission to the programme MA CINEMA AND TELEVISION as follows

Graduation in Multimedia/ Visual Communication/Animation and Graphic Design/ Animation and Visual Effects/ Visual Arts or related fields OR graduation in any field with not less than CCPA of 4.5 out of 10.00 in the Core Group (Core + Open + Complementary). The admission shall be based on an Aptitude test and Interview for all candidates and the merit list be drawn based on a 70:30 distribution for the Aptitude Test and Interview respectively.

3.4: Note of the Board of Studies in Computer Science

Decided to revise the syllabus of B.Sc. Computer Applications and BCA with effect from 2023 admission onwards. The following changes were proposed in the meeting.

a The syllabus revisions on BSc Computer Applications (Triple Main)

Semester I

- Programming in Python is removed and Programming in C and its practical are included.

Semester II

- 'Object Oriented Programming in C++' is removed and introduced 'Data Structure using C++' and its practical.

Semester III:

- 'Programming in Java' is shifted from semester 5 to semester 3 and included the topic 'Swing programming'.

Semester IV:

- Bootstrap and Ajax technologies are included in Advanced Web Technology. ReactJS, NoSQL-MongoDB, Python and its web framework Flask.

Semester V:

- New course 'Introduction to Data Science' is introduced. Evolution of Data Science with Model creation, Cross Validation, Overfitting, Under Fitting, Model Selection. Data Analysis & Visualization using R are added to this course. Data Science practical is also introduced.

Semester VI:

- The course 'Artificial Intelligence' is replaced with 'Artificial Intelligence and Machine Learning'.
 - Two modules of AI and three modules of ML are introduced. Introduction to AI, Implication of Bigdata in AI, types of searching, knowledge & reasoning, Probabilistic Reasoning are introduced in AI modules.
 - Machine learning paradigms, Classification, Back propagation algorithm, Support Vector Machines, Data Clustering, Regression, Optimizers, Bayesian Networks, Introduction to Tensor Flow.

b. The syllabus revisions on BCA (Mobile Applications and Cloud Computing)

Semester I:

- Computer fundamentals & organization is replaced with Digital System Design.
- Programming in 'C' is replaced with Introduction to Programming and introduced 'C' practical.
- Introduction to Linux is replaced with Computer Organization and introduced practical on Digital System Design and Linux.

Semester II:

- OOPS with C++ is replaced with Problem solving using Python and introduced the practical on Python.
- Data structures using 'C' is replaced with Data structures and algorithms using C++ and introduced practical on Data structures and algorithms using C++.

Semester III:

- Object oriented modeling- UML diagrams are added in the Software Engineering.
- Programming in Java - Swing programming concepts are included in this course.
- RDBMS- NoSQL concept is added.

Semester IV:

- Web Technologies- Python Flask is added in the 5th module.
- Fundamentals of Data Centre of 4th semester and Fundamentals of Storage of 6th semester are merged and replaced with Fundamentals of Data Centre and Storage.
- Basic Android is upgraded to Android Application Development with Kotlin and introduced practical on Android Application Development with Kotlin.
- Mobile Device and Network Architecture- removed last two modules and add 4G, 5G technologies.

Semester V:

- Server Operating System – contents upgraded to Windows Server 2019 and RHEL 8 and introduced its practical.
- Advanced Android is upgraded to Hybrid Mobile Application Development and introduced its practical.

Semester VI:

- Introduction to Mobile UI and UX is replaced with DevOps Fundamentals.
- Fundamentals of Storage is replaced with Introduction to Machine Learning and Data science.
- Web Technology and Value-added services in Mobile is replaced with Computer Graphics using OpenGL.
- Mobile Testing is removed and added two Practical on DevOps Fundamentals and Computer Graphics and Introduction to Machine Learning and Data science.

- c. The BoS decided to change the Question Paper pattern of core courses(Computer Applications) of both the programmes BSc CA and BCA as follows

Part	No. of Questions	No. of Questions to be Answered	Marks of Each Question	Total Marks
A	10	8	2	16
B	9	7	5	35
C	4	2	12	24

- d. Decided to change the internal components of core courses (Computer Applications) of both the programmes B.Sc. CA and BCA as follows

Components	Marks
Attendance	5
Record	5
Lab involvement	5
Mini Project	10
Total	25

3.5 Note of the Board of Studies in Commerce

1. The Board of Studies in Commerce decided to convert the complementary courses to core courses as there are no complementary courses for commerce subjects.
2. The nomenclature of two courses have been changed namely 'Financial accounting' to 'Accounting for Business' and 'IFRS' (International Financial Reporting Standards) to 'Accounting Standards for Global Accountant'.
3. A rearrangement of four courses were done by swapping 'Financial Management' of Sem 3 with 'GST' (Goods and Services Tax) of Sem 4, both being optional courses of the option B.Com Finance & Taxation and 'IFRS' of Sem 2 with 'Banking & Insurance' of Sem 5.
4. The Board of Studies decided to change the credit and hours of courses so that the credit matches with the hours of each course.
5. The Board of Studies decided to convert few courses as application based in order to improve the employability and skills of students, the courses namely 'Business Statistics', 'Quantitative Techniques', 'Business Analytics', 'Applied Cost Accounting' and 'Accounting for Managerial Decisions' are proposed to be made application based. In application-based courses there will be a practical exam for 15 marks, internals for 25 marks including 5 marks for internals of practical. External semester exam will be for 60 marks of 3 hrs. duration.

6. The course 'Business Analytics' is introduced instead of the course 'E-Commerce and General Informatics' of Semester 3.
7. Case study is included in all theory courses
8. Changes are made in the following existing courses:
 - a. Hospitality Management
 - b. Travel and Tourism Infrastructure
 - c. Fundamentals of Tourism
 - d. Marketing of Tourism.
 - e. Capital Market
 - f. Financial Management
 - g. Financial Services
 - h. IT for Office
 - i. Business Statistics
 - j. Accounting for Business
 - k. Quantitative Techniques
 - l. Business Environment
 - m. Principles of Business Decisions
9. Syllabus for a new open course, 'Fundamentals of Taxation' is included.
10. Practical of 36 hours each is introduced for optional courses of B. Com Travel and Tourism in the fifth and the sixth semesters.

3.6 Note of the Board of Studies in Economics

The meeting of the combined BoS meeting of Economics, Political Science and History was held on 19th July, 2022 at 2 pm. A detailed discussions on each paper was done and necessary modifications were incorporated in the draft syllabus. The BoS decided to make the following changes in the UG Economics syllabus:

- Decided to Change the titles of papers Quantitative Techniques for Economic Analysis and Quantitative Methods for Economic Analysis into **Quantitative Techniques for Economic Analysis I** and **Quantitative Techniques for Economic Analysis II** respectively.
- Introduced the paper Behavioural Economics instead of Business Economics into the list of elective papers.
- Introduced a new paper, **Economic History of Modern India** for semester 2 complementary courses in History. This paper is designed exclusively for the students of Economics and the existing paper, **The Concise History of Modern India** will be continued for Semester 2 Sociology students with minor modifications.

3.7 Note of the Board of Studies in English

1. Redrafted the course outcome for all courses
2. Decided to follow a five-module pattern for all courses, if possible.
3. Common Courses in Semester 3 and 4 changed as follows:
 - a. Semester 3: Scripting the Nation
New chapters introduced –
 - i. “Towards a Third World Utopia” by Ashis Nandy in Module 1,
 - ii. “The Spirit of Universality” by Dr. S. Radhakrishnan in Module 2,
 - iii. “The Nature of Life” by Fritjof Capra in Module 4.
 - iv. “The Anthropocene” by Yuval Noah Harari in Module 4.
 - b. Semester 4: Illuminations
New chapters introduced
 - i. "Nirvana". *I'm Vidya* by Living Smile Vidya in Module 1
 - ii. “Education and Society” by Dr. S. Radhakishnan in Module 3.
4. Reframed copy editing courses (semester 1-4) with the help of an industry expert and contents such as editing for new media, proofreading etc.
5. Introduced 2 new open courses in Semester 5
 - a. Film studies
 - b. Theatre studies

Also, the board of studies meeting held on 12/7/22, it was decided to introduce the following courses in the existing syllabus of BA English Language and Literature (Model 1).

Semester 1

Introduction to Reading Literature replaces *Methodology of Literary Studies*

Semester 2

Methodology of Humanities and Literature replaces *Introducing Language and Literature*

Semester 3

Reading Prose replaces *Harmony of Prose*

English Literature in Context: A Historical Perspective replaces *Symphony of Verse*

Introduction to the Study of Language and Literature replaces *Shapers of Destiny*

Semester 4

Reading Poetry replaces *Modes of Fiction*

English Literature in Context: A Literary Perspective replaces *The Cross Currents*

Reading fiction replaces *Language and Linguistics*

Semester 5

Reading Drama replaces *Acts on Stage*

Language and Linguistics replaces *Indian Writing in English*

Semester 6

Indian Writing in English replaces *Modern World Literature*

Modern World Literature is included as Core Elective 4

The project paper, which was based only on research writing will also include, **Content Writing and Creative Writing**

**Programme Structure - BA ENGLISH LANGUAGE AND LITERATURE
(MODEL I)**

SEMESTER 1

Course Code	Title of Course	Contact Hours/Week	Credit
23U1CCENG01	Homo Loquens: Effective Listening and Speaking End-semester Oral Test	5	3 1
	Common-Second Language 1	4	4
23U1CRENL01	Introduction to Reading Literature	6	4
(23U1CPSOC1)/ (23U1CPPSY1)	Introduction to Sociology / Understanding Psychology	6	4
23U1CCENG02	Pearls from the Deep	4	4

SEMESTER 2

Course Code	Title of Course	Contact Hours/Week	Credit
23U2CCENG03	Text and Context: A Guide to Effective Reading and Writing	5	4
	Common- Second Language 2	4	4
23U2CRENL02	Methodology of Humanities and Literature	6	4
(23U1CPSOC2)/ (23U1CPPSY2)	Sociology/ Psychology	6	4
23U2CCENG04	Savouring the Classics	4	4

SEMESTER 3

Course Code	Title of Course	Contact Hours/Week	Credit
23U3CCENG05	Scripting the Nation: Readings on Indian Polity, Secularism and Sustainability	5	4
23U3CCMAL3A/ HIN3A/FRN3A	Common Second Language - 3	5	4
23U3CRENG04	Reading Prose	5	4
23U3CPENG03	English Literature in Context: A Historical Perspective	5	4
23U6CRENL14	Introduction to the Study of Language and Literature	5	4

SEMESTER 4

Course Code	Title of Course	No. of Hours	Credit
23U4CCENG06	Illuminations	5	4
23U4CRENG05	Reading Poetry	5	4
23U4CRENG06	Reading Fiction	5	4
23U4CPENG04	English Literature in Context: A Literary Perspective	5	4
23U4CCMAL4A/ HIN4A/FRN4A	Common Second Language - 4	5	4

SEMESTER 5

Course Code	Title of Course	Contact Hours /Week	Credit
23U5CRENG07	Reading Drama	5	4
23U5CRENG08	Language and Linguistics	5	4
23U5CRENG09	Literary Criticism: Theory and Practice	6	5
23U5CRENG10	Environmental Science and Human Rights	5	4
23U5OCENG01	English for Careers - Open Course (General)	4	3
23U5OCENG02	Film Studies (OC)	4	3

SEMESTER 6

Course Code	Title of Course	No. of Contact Hours/Week	Credit
23U6CRENG11	Postcolonial Literatures	5	4
23U6CRENG12	Women's Literature	5	4
23U6CRENG13	Indian Writing in English	5	4
23U6CRENG14	American Literature	5	4
23U6CRENGEL1	Regional Literatures in Translation (Core Elective 1)	4	3
23U6CRENL154	Voices from the Margin (Core Elective 2)	“	“
23U6CRENGEL3	Comparative Literature (Core Elective 3)	“	“
23U6CRENL14	Modern World Literature (Core Elective)	“	“
23U6PJENGL1	Project (Content Writing/ Translation/ Magazine/ Dissertation)	1	1

OPEN COURSE

The BoS also proposed a new open course 'INTRODUCTION TO CRITICAL THINKING'

3.8 Note of the Board of Studies in Additional Languages

The BoS of Additional Languages comprising of French, Malayalam, Sanskrit and Hindi held meetings and discussions department wise in order to finalise the revision of syllabus for the year 2023.

Following are the changes proposed in the syllabus of French

- Replace the existing text book with an updated one, Atelier A1 and A2 for I and II B.A./B.Sc students respectively.

- The department will also be offering Value Added course for semester 1 and semester II students in Professional French for Tourism.

The Dept. of Hindi has decided to change 2 text books, novel and drama in the next revision of syllabus. The Board suggested to introduce **2 new text books**, Kabira khada bazar men (Drama) by Bhisham Sahni for the first semester and 'Daud' of Mamta Kaliya (Novel) for the third semester B.A./B.Sc.

The Department of Sanskrit has suggested modifications as given below:

I Semester

Module 1 -Sanskrit basic grammar,Sabdas & Lakaras (Shifting from II Sem)

Module 2- Sentence construction & Translation (Shifting from II Sem)

Module 3- Poetry -Selected portions from Kristu Bhagavatam by P.C Devasya (New)

Module 4-Drama- Karnabharam of Bhasa (Exciting)

II Semester

Module 1 Kumarasambava / Raghuvamsham/ Sreeramodantham (Selected portions)

Module 2- Alankara (shifting from I Sem)

Module 3- Meghasandesham of Kalidasa (No Change)

Module 4- Mruchakatikam 1,2&3 (No Change)

III Semester

Module 1 - Technical Literature - 1-Translation Theory (New)

Module 2- Technical Literature -2 - Darsanas (New)

Module 3- Shakunthala Katha (I - IV)

Module 4- Mruchakatika Kathasamgraha 4,5 &6

IV Semester

No Change

Department of Malayalam has decided to make the following changes:

ബി.എ , ബി.എസ്.സി

സെമസ്റ്റർ- 1 (കഥ നോവൽ)

ഒഴിവാക്കുന്ന കൃതികൾ	ഉൾപ്പെടുത്തുന്ന കൃതികൾ
നേർച്ചക്കോട്ടി- ജോൺ അബ്രഹാം	കുത്തുന്ന തലയണ - ശിഹാബുദ്ദീൻ പൊയ്ത്തുരംകടവ്
ശിങ്കിടി മുക്കൻ - വൈക്കം മുഹമ്മദ് ബഷീർ	ഒരു മനുഷ്യൻ- വൈക്കം മുഹമ്മദ് ബഷീർ

സെമസ്റ്റർ- 2 (കവിത)

ഒഴിവാക്കുന്ന കവിതകൾ	ഉൾപ്പെടുത്തുന്ന കവിതകൾ
മാമ്പഴപ്പാത - മോഹനകൃഷ്ണൻ കാലടി	ചാരം- എം ആർ രേണുകുമാർ
യശോധരയെന്നവൾ - റോസ് മേരി	ടച്ച് സ്ക്രീൻ - കല്ലറ്റ നാരായണൻ
കളകൾ - പി.മധു	കൈക്കലത്തുണി - വിജില ചിറപ്പാട്
യുഗളപ്രസാദൻ - വിഷ്ണു നാരായണൻ നമ്പൂതിരി	അമ്മ - ഒ. എൻ. വി കുറുപ്പ്

ആശുക്കുട്ടിയുടെ മരണം - കടമ്മനിട്ട രാമകൃഷ്ണൻ	ചാക്കാല- കടമ്മനിട്ട രാമകൃഷ്ണൻ
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സെമസ്റ്റർ- 3 (അരങ്ങും പൊതുളും)

ഒഴിവാക്കുന്ന രചനകൾ	ഉൾപ്പെടുത്തുന്ന രചനകൾ
ആമുഖം - രംഗപ്രഭാവം	കല്യാണസൗഗന്ധികം (ശീതങ്കൻ തുള്ളൽ)
കരിംകുട്ടി- കാവാലം നാരായണപ്പണിക്കർ	ഓരോരോ കാലത്തിലും - ശ്രീജ ആറങ്ങോട്ടുകര
നളചരിതം രണ്ടാം ദിവസം	നളചരിതം ഒന്നാം ദിവസം-ആദ്യത്തെ മൂന്ന് രംഗങ്ങൾ

സെമസ്റ്റർ- 4 (ഗദ്യം രചനാപരിചയം)

ഒഴിവാക്കുന്ന രചനകൾ	ഉൾപ്പെടുത്തുന്ന രചനകൾ
എഴുത്തിന്റെ വഴികൾ - ഉപന്യാസ രചന ,വിവർത്തനം, വാക്കും യുക്തിയും ,യന്ത്ര എഴുത്ത്	നിർമ്മിത ബുദ്ധിയുടെ കാലത്തെ ഭാഷാസാങ്കേതികവിദ്യ- കാവ്യ മനോഹർ അറബിക്കല്യാണം മടങ്ങി വരുമ്പോൾ- എം.എൻ.കാരശ്ശേരി.
തെളിമലയാളം-എം.എൻ. കാരശ്ശേരി (തിരഞ്ഞെടുത്ത ഭാഗങ്ങൾ)	നവ കൊളോണിയലിസം കിഴാള സാഹിത്യവും സ്ത്രീവാദ സാഹിത്യവും- പി. എം. ഗിരിഷ്
മതനവീകരണം മതനിരപേക്ഷത- എൻ. വി. കൃഷ്ണവാരിയർ	അടുക്കളയിൽ തിളച്ചു വേവുന്നത് -ശാരദക്കുട്ടി
നാനോ ടെക്നോളജി- അൻവർ സാദത്ത്	പ്രകാശത്തിന്റെ ആയിരം തടവറകൾ- ജീവൻ ജോബ് തോമസ്
വർത്തമാന പത്രം വായനയ്ക്ക് മുൻപുള്ള വർത്തമാനങ്ങൾ - ജോസ് പനച്ചിപ്പറം	ആൺകോട്ടയിലെ തടവുകാരി - മല്ലികാ വസന്തം-വിജയരാജ മല്ലിക (ആത്മകഥ)

സെമസ്റ്റർ- 2 (ഗദ്യം രചനയും പ്രയോഗവും)

ഒഴിവാക്കുന്ന ലേഖനങ്ങൾ	ഉൾപ്പെടുത്തുന്ന ലേഖനങ്ങൾ
ബുദ്ധാകഥയിലെ ഒറിയാ പാഠഭേദങ്ങൾ - രവീന്ദ്രൻ	മഴക്കാടുകളിൽ കടുവയെ തേടുമ്പോൾ -എൻ എ നസീർ
അദ്രാക്ഷമാഹാത്മ്യം- സഞ്ജയൻ എം. ടി-മഞ്ജത്	യേശുദാസും മലയാളിയും - രമേശ് ഗോപാലകൃഷ്ണൻ
കേരളചരിത്ര രചന: ദളിതരുടെ ഇടം തേടലുകൾ- കെ. കെ. കൊച്ചി	സാറാ ജോസഫ് -ആലാഹയുടെ പെൺമക്കൾ
എഴുത്തോല- വിവർത്തനം കമ്പ്യൂട്ടറും ഇ ലോകവും നിവേദനം സർഗാത്മക രചന	ദലിത് സാമുദായിക രാഷ്ട്രീയം -കെ. കെ. കൊച്ചി
തെളിമലയാളം - എം.എൻ. കാരശ്ശേരി	നിർമ്മിത ബുദ്ധിയുടെ കാലത്തെ ഭാഷാസാങ്കേതികവിദ്യ - കാവ്യ മനോഹർ അറബിക്കല്യാണം മടങ്ങി വരുമ്പോൾ - എം.എൻ.കാരശ്ശേരി
എന്റെ മുത്തശ്ശി- തന്ത്രജ	നവകൊളോണിയലിസം: കിഴാള സാഹിത്യവും സ്ത്രീവാദ സാഹിത്യവും- പി എം ഗിരിഷ്
	എതിര് -കുഞ്ഞാമു

ബി.കോം, മോഡൽ- 1

സെമസ്റ്റർ- 1 (കഥകൾ, കവിതകൾ)

ഒഴിവാക്കുന്ന കൃതികൾ	ഉൾപ്പെടുത്തുന്ന കൃതികൾ
ഇരുപക്ഷം പെട്ടം ഇന്ദുവല്ല ഞാൻ - വി.എം.ഗിരിജ	മരണം ഗാന്ധിയെ പോലും വലുതാക്കുന്നു - പി. എൻ. ഗോപികൃഷ്ണൻ
അഭിസാതിക- സുഗതകുമാരി	സൈറൺ- ഡോണ മയൂര
	സൂനിൽ ജോസ്- അമ്മച്ചൻ

സെമസ്റ്റർ- 2 (ഗദ്യം രചനയും പ്രയോഗവും)

ഒഴിവാക്കുന്ന ലേഖനങ്ങൾ	ഉൾപ്പെടുത്തുന്ന ലേഖനങ്ങൾ
വിവർത്തനം, നിവേദനം, കവ്യുട്ടരം ഇ-ലോകവും, സർഗാത്മക രചന (എഴുത്തോല)	നിർമ്മിത ബുദ്ധിയുടെ കാലത്തെ ഭാഷാസാങ്കേതികവിദ്യ - കാവ്യ മനോഹർ അറബിക്കല്യാണം മടങ്ങി വരുമ്പോൾ - എം.എൻ.കാരശ്ശേരി
ഒരു ദരിദ്രരാജ്യമായ ഇൻഡ്യയിൽ- എം. ടി. വാസുദേവൻ നായർ	പച്ചവിരൽ - ദയാഭായ്
തെളിമലയാളം - എം. എൻ. കാരശ്ശേരി (തെരഞ്ഞെടുത്ത ഭാഗങ്ങൾ)	നവകൊളോണിയലിസം: കീഴാള സാഹിത്യവും സ്ത്രീവാദ സാഹിത്യവും- പി എം ഗിരിജ്
സിനിമയെ തിന്നുന്ന ടെലിവിഷൻ - സി. എസ് വെങ്കിടേശ്വരൻ	മലയാളിയുടെ ടെലി ജീവിതം - സി. എസ് വെങ്കിടേശ്വരൻ
ഇക്കോഫെമിനിസം - പ്രൊഫ.കെ.പി .കുര്യക്കോസ്	പാരിസ്ഥിതികസ്ത്രീവാദം - മഹേഷി ബി
നഷ്ടബോധങ്ങളില്ലാതെ - ദേവകിനിലയങ്ങാട്	ആത്മകഥക്കൊരാളും - ലളിതാംബിക അന്തർജനം

The BoS has also decided to offer Value Added Course and an Open Course in Spanish which will enable the learner to attend DELE (Diploma in Spanish language certification).

3.9 Note of the Board of Studies in Mathematics

The BoS proposed the following changes in the UG Syllabus

- 1) Minor changes in syllabus of course Human rights and Environmental studies offered in semester 5.
- 2) Change the text book for the course Linear algebra offered in semester 6 to Linear algebra, a geometric approach, by Kumaresan. Topics will remain more or less the same.

- 3) Change the text book of course Real Analysis offered in semester 6 to Introduction to Real Analysis, by Robert G Bartle and Donald G Sherbet. Topics will remain more or less the same.

- 4) Changes in the syllabus of B Sc Computer applications

Semester	Course offered	Changes
1	Foundation of Mathematics	No changes
2	Analytic Geometry, Theory of equations and Numerical methods	Changed to Calculus offered in semester 3
3	Calculus	Changed to Abstract algebra
3	Vector calculus, Trigonometry and Matrices	Changed to Numerical methods and Matrices.
4	Differential equations	No changes
5	Graph theory and Numerical Analysis	Changed to Graph Theory and Linear Algebra.
6	Mathematical Analysis	Changed to Real Analysis. Module 4 is replaced with continuous functions and its properties

- 5) Title Changes in syllabus of BSc Mathematics

Semester	Course offered	Changes
4	Analytic Geometry, Theory of equations and Numerical methods	Changed to Fourier series, Laplace transforms, Theory of equations and Numerical methods
6	Linear algebra and Graph theory	Changed to Linear algebra
6	Fourier series, Laplace transforms and Metric spaces	Changed to Graph theory and Metric spaces

3.10 Note of the Board of Studies in Physics

Following decisions were taken with regard to the UG Physics syllabus revision for the Academic year 2023 in the Physics BOS meeting held in Fr. Hadrian Hall on 8th July 2022 at 14:30 - 16:00 Hrs.

- (1) Minor modification in the Semester 5 core Physics paper - Energy and Environmental Physics and Human Rights Vision

- (2) More specific and Advanced topics were included in the semester 5 Open Course - Physics in Daily life.

3.11 Note of the Board of Studies in Psychology

1. Experiential learning component was added to the Foundations of Organization Behaviour Course in Semester 5. The title of Foundations of Organisational Behaviour is changed to Introduction to Organisational Behaviour.
2. An experiential component to Child Development course was added in semester 6.
3. In Understanding Psychology (English Complementary course-1st semester), a new module on 'Attitude' has been added. The topics covered in this module are Attitude formation: how attitudes develop; How attitudes guide behaviour. Prejudice, stereotype, discrimination, Persuasion: How attitudes are changed, resisting persuasion, cognitive dissonance.
4. The second module 'Scope of Psychology' of Understanding Psychology is added to the first module.
5. In the third module of Understanding Psychology (Psychology in Social Setting), 'attribution' has been added. The title of Understanding Psychology (Complementary course for English students) has been changed to Basic Psychological Processes.
6. In Psychology of Individual Differences (English Complementary course-2nd semester), James-Lange and Cannon-Bard theory of emotion is added to the third module (Emotions & Motivation). The title of Psychology of Individual Differences is changed to Variations in Psychological Attributes.
7. The three components in the Project (Internship & Volunteering, study tour and training for additional skill development) was made mandatory for students. The students shall be given an extra credit for study tour and undertaking training for additional skill development. The title of Psychology Project 1 has been changed to Experiential Learning Project.
8. A new open course on Psychology of Gender is added to the current syllabus.
9. The detailed split-up of the marks of internal and external components of the courses Psychology Practical -2 (Core), Core Practical 3: Experimental Psychology and Practical: Psychological Assessment which are taught in Semester 3, 4, 5 and 6 has been added.

Components	Internal Evaluation (25 marks)
Record	10
Lab involvement	5
Exam/Viva	5
Attendance	5

Components	End Semester Exam (75 marks)
Record	10
Introduction and Procedure	15
Administration	10
Result and Discussion	15
Viva	25

3.12 Note of the Board of Studies in Sociology

Deliberations of the BoS Meeting

1. The meeting observed the need to incorporate some changes in the course. "Fundamentals of Sociology" in Semester 1 to briefly discuss Symbolic interactionism along with other Classical theories. The concept of Common sense is also to be added in the paper
2. The course "Basic Concepts in Sociology" in Semester 2 was examined and it was decided that the concepts Gender Socialisation, Online Communication and Interaction, Status set needs to be included.
3. The BoS Meeting examined the course "Foundations of Sociological Thought" of Semester 3 decided to omit the Biographical sketch of the theorists and some and some concepts which seem to be irrerelavant to the course. Types and Functions of theory is to be introduced in Module 1
4. The course on "Social Research" was thoroughly revisited and some major changes was suggested by infusing relevant and important concepts like Plagiarism, Methodology of Social research. The concept Tabulation of data will be deleted.
5. The meeting assessed the relevance of the course "Indian Society" in semester 4 and decided to infuse the changing trends in Family and Marriage in India along with the addition of the concept Kinship and its classifications.
6. Major changes were suggested in the course "Environment and Society" considering its contemporary significance by incorporating regional and local environmental discussions with

concepts like Ecological Sensitive Zone, Western Ghats, Climate change, Land degradation, Muthanaga incident to revitalize its content

7. In semester 5, the course on “Modern Sociological theory” was to be realigned by adding new theoretical frameworks like Neo Marxian and Neo functionalism into the domain and to delete some areas of repetition. It was also decided to add post - modern thinkers as an introduction to advanced theoretical frameworks

8. In Semester 6, the course on “Social Pathology” was decided to include more areas on cyber-crime and forensic sciences and also changing trends in terrorism

9. The course on “Media and society” can infuse better understanding of the current discourse in social media and media activism with a focus on changing trends in social media platforms

10. The course on “Sociology of work and industry” in Semester 6 can have an extensive discussion on trade unionism and on work culture

11. The course “Sociology of the Marginalised Sections” was deliberated upon and significant changes were suggested considering its growing significance in the cotemporary scenario. The concepts of Subaltern and intersectionality is to be added along with marginalisation experienced by the vulnerable groups in the cyberspace which is an emerging issue.

12. It was decided to bring more field based approach to the course on “Elements of Social Psychology” by introducing hypnosis, psychotherapy and other platforms of human personality. New concept of Mass behaviour was also decided to be incorporated. This course is also administered as an open course for students of other departments. The meeting provides a fruitful prognosis for practical application of sociological thought and tried to realign a deeper and more diverse approach to the discipline especially in the light of ongoing research and development and expansion of the horizons of the subject domain.

3.13 Note of the Board of Studies in Statistics

The Board of Studies in Statistics meeting convened on 5th July 2022 proposed to modify the U.G. syllabus of Statistics courses for BSc Mathematics (complementary), BSc Computer Applications (Core) and BSc Psychology (complementary).

The changes proposed are as follows:

1. Course title changes

Semester	Existing course title	Proposed course title
I	Descriptive Statistics	Fundamentals of Statistics

II	Probability and Statistics	Theory of Probability and random variables
III	Probability distributions	Theory of Distributions

2. To club the fourth module of semester II with third module of semester I, and put it as fourth module in the semester I of BSc Mathematics and BSc Computer Applications.

3. The module which was recorded as fourth module previously has to be moved to second semester as fourth module.

3. A new topic titled 'principles of design of experiments' have to be included in the fourth module of fourth semester.

4. B Sc Psychology- Complementary Statistics

To enable the students to do the research project, the syllabus for Complementary Statistics is revised to incorporate the research methodology component. For this an additional module is added to the existing syllabus of Statistics in all the first four Semesters. The four modules pertaining to research methodology is sufficient to guide the students to effectively complete the research project during their sixth semester.

3.14 Note of the Board of Studies in Zoology

The Board of Studies in Zoology met on 14th July 2022. Based on the decisions and recommendations made by the BoS during its meeting held on February 25, 2022, the existing UG syllabus was revised and the same was discussed. BoS resolved to adopt the revised syllabus to be implemented from 2023 admissions onwards.

- Syllabi of 18 theory courses and 4 practical courses are revised based on the guidelines issued by BoS in its previous meetings.
- No change in the distribution of courses and credits is proposed
- A compulsory extra-credit course in "Faunal Identification" is introduced.

The following changes have been made to the syllabi of individual courses:

Core Courses

Semester I

23U1CRZOO01: Animal Diversity - Non -Chordata I

Module I: Added the following topics: History of Zoology (Brief), Zoology and its scopes Zoology as science, scientific temper, characteristics of science, how to make scientific investigation, pseudoscience, laws of science.

Deleted the following topics: History of Biology, branches of biology and its scopes, what is science, method of science.

Module III: Added the topics: Taxonomy-Definition, components of classification, taxonomic aids.

Module IV: Protist classification re-organized as animal like, plant like and fungus like

Semester II

23U2CRZOO02 Core Course 2: Animal Diversity - Non -Chordata II

Module II: Added the following topics: Phylum Nematoda - Class Phasmodia Eg. *Enterobius*, *Ascaris*; Class Aphasmodia Eg. *Trichinella*. Virtual dissection of cockroach

Semester III

23U3CRZOO03: Animal Diversity – Chordata

COs modified

Modules rearranged

Module I: Removed the topic common culture fishes of Kerala

Module III: Added the topics: Parental care in Amphibia

Module IV: Added the topic Order Crocodilia

Semester IV

23U4CRZOO04: Applied Zoology

COs modified

Module I: Added the topic: Sustainable practices for environment friendly Aquaculture

23U4PRZOO02: Animal Diversity - Chordata

COs modified

Added the following practicals: Frog viscera and frog arterial system; Virtual dissection of frog

Semester V

23U5CRZOO05: Cell and Molecular Biology

Module II: Added the topic Hemidesmosomes

Module VI: Added the topics GPCR

Module VII: Added the following topics: Contributions of Avery, Macleod, McCarthy, Watson - Crick model of DNA, Clover leaf model of tRNA, Different types of DNA and RNA, Semi-Conservative method of DNA replication.

Module VIII: Module re-structured

23U5CRZOO06: Environmental Biology

COs Modified

Restructured Module II, III and V

Module V: Added the topics: Human Rights and their violation in the overexploitation of natural resources, Concept of Sustainable Development and ethical treatment of natural resources, Sustainable Development Goals (SDGs).

23U6PRZOO03: Practical 3: Environmental Biology

COs Modified

23U5CRZOO07: Evolution, Zoogeography and Ethology

Module III: Added the topics: Added evidence of evolution – 1. Paleontological (methods of fossil study - Archaeopteryx lithographica, significance of fossil study) 2. Biogeographical (geological time scale, evolution of horse) 3. Anatomical (Vestigial, homologous and analogous organs with examples – concept of convergent, divergent and parallel evolution, Atavism).

Restructured Modules III, IV and V

23U5CRZOO08: Biochemistry, Human Physiology and Endocrinology

COs modified.

Module II: Added the topics: Glycogenesis and pentose phosphate pathway

Module VI: Added the topics: Structure of heart, neurogenic and myogenic heart. Removed the topics: fate of blood cells, blood brain barrier.

Module IX: Added the topic: Types of synapses.

Semester VI

23U6CRZOO09: Reproductive and Developmental Biology

Module I: Added the topics: Mosaic theory, regulative theory, scope of developmental biology, significance of fertilisation. Removed the topics: External fertilisation, capacitation, obligatory and facultative elements.

Module III: Added the topics: Frog metamorphosis, frog eye development. Removed the topics: notogenesis, neurulation.

Module IV: Added the topics: 33-hour and 48-hour chick embryos.

Module VI: Added the topics: Homeotic selection genes and segmentation genes.

23U6CRZOO10: Genetics and Biotechnology

Module III: Added the topic: Steps of construction of gene map

Module IV: Removed the topic: Barr bodies and Lyon hypothesis

Module XI: Added the topic: Reproductive Cloning

Module XII: Removed the topics: Tissue culture – Principle and uses and Technology of mammalian and plant cell culture and interferon, Lymphokines, Cytokines and Antibiotics. Added the topics: Animal Cell and Tissue culture and Gene therapy – Somatic and germline gene therapy and DNA vaccines.

Restructured Modules I, V and VII

23U6CRZOO11: Microbiology and Immunology

COs modified

Module I: Module renamed as History and scope of microbiology. Deleted the topic: Classification of fungi.

Module IV: Removed the topic: Enumeration of bacteria.

Module VII: Added the topic: Tetanus. Removed the topic: TB

Module VIII: Added the topic: Adjuvants.

23U6CRZOO12: General Informatics, Bioinformatics, Biostatistics and Research Methodology

COs modified

Module VIII: Added the topics: Merits and demerits of Mean, Median and Mode.

Module XI: Added the topic: Problem solving – Correlation

23U6CRZOO13: Ecotourism and Ecotourism Entrepreneurship

Module I: Added the topics: Emergence of ecotourism, principles of ecotourism, ecotourist, profiling the ecotourist, benefits of ecotourism, quality assurance in ecotourism. Deleted the topics:

Attractions, geography, heritage, wildlife, nature

Module II: Added the topics: Ecotourism resources in India - national parks, wildlife sanctuaries, tiger reserves, wetland and desert

Module III: Added the topics: Health and medical tourism, sports tourism

Module V: Restructured and added the topics: Nature and scope of sustainable tourism, dimensions of sustainability; current practices of eco-conservation in tourism industry, sustainable ecotourism projects - case studies on Periyar National Park, Thenmala eco project, Sundarbans ecotourism project, Kaziranga national park, Rann of Kutch, Nandadevi.

Complementary Courses

Semester I

23U1CPZOO1: Animal Diversity – Non Chordata

Module I: Added the topic: Introduction to 8 kingdom classification

Restructured modules VII & X

23U2PCZOO1: Animal Diversity – Non Chordata

Added virtual dissection of cockroach

Semester II

23U2CPZOO2: Animal Diversity – Chordata

Restructured Module III: Changed the redundant name of frog from *Rana hexadactyla* to *Euphlyctis hexadactylus*. Organ systems to be taught reduced to General characters, Respiratory, Circulatory, Nervous and Skeletal system. Added the topics Paedogenesis and Neoteny

23U3PCZOO2: Animal Diversity – Chordata

Added virtual dissection of frog

Semester III

23U3CPZOO3- Human Physiology and Immunology

Module III: Added the topic: Significance of blood clotting.

Module V: Added the topic: Neuromodulators, applications of EEG.

Module IX: Added topics: Properties of antigens, Types of antigens (Based on source of origin, immunogenicity and biology), comparative analysis of different immunoglobulins

Semester IV

23U4CPZOO4 - Applied Zoology

Module IV: Added topics: Bee dance as a way of communication in bee colony, sex determination system in honey bee, Honey bee pheromones and behaviour, Byproducts of honeybees and their uses. Diseases and pests of honey bees, control measures.

Open Course

23U5OCZOO01: Human Genetics, Nutrition, Community Health and Sanitation

COs modified

Module IV: Added the topics: Blood pressure, cholesterol, Transient Ischemic Attack (TIA), Stroke (Symptoms and treatment), Cardiac ischemia (Heart attack), ECG, Angiogram, Angioplasty.

Removed the topics: Physical activity and health benefits.

Module VII: Added the topics: Endemic, epidemic, pandemic diseases. Removed the topic: Potable water quality.

3.15 Note of the Board of Studies in Management Studies

The following are the decisions taken by the BoS of Management Studies

1. To provide additional languages Malayalam, French and Hindi instead of providing French I and French II (Sem 1 & 2) as compulsory subject.
2. The BoS decided to include topics -Talent acquisition, Training & Development in Human Resource Management course which is provided in 3rd semester.
- 3 The BoS decided to offer 'Digital Marketing' as Open Course for other department students from 2023 batch.
4. Decided to add analytical tools in Research Methodology.
5. Decided to replace the course Consumer psychology in the sixth semester by one of the following elective courses.
(a) Media Management (b) Organization Behavior and (c) Logistics & Supply chain management

Few changes made in course title, course content and the sequence of the courses offered in different semesters.

1. Event Management Sem 2 to be shifted to Semester 3 and Marketing Management Sem3 to Sem 2
2. Content modified in courses like Research Methodology, Business Economics and Business Statistics.
3. Title changed for courses- Managerial Economics to Business Economics, Introduction to PR &Corporate Communication to Public Relation & Corporate Communication.

The Academic Council approved the above proposals of the Boards of Studies

Agenda Item No. 4: Institution of Endowments

- 1.BSc. Zoology Batch 1988-91 instituted a scholarship for the best student admitted in first B.Sc. Zoology on merit cum means. The scholarship amounting to Rs.10000/- will be given to a financially weaker student who is not getting any scholarship or stipend.
- 2.BSc Physics 1996-99 Batch instituted 'Prof. Siby Mathew endowment Award for all Kerala Best Innovative BSc Physics Project". The endowment consists of a corpus fund of Rs.111511/- About 75% the interest accrued from the corpus fund shall be utilised for giving the award. Remaining interest shall be added to the corpus fund.

The Academic Council approved the proposals

Agenda Item No.5: Nomination of an Expert to the Board of Studies (BoS) in Aquaculture

Dr. C. N. Ravishankar, the Academic Council nominee to the Board of Studies in Aquaculture and Fish processing took charge as the Vice-Chancellor of CIFE in Mumbai. As he informed his difficulties in continuing as a member of the BoS, it is proposed to nominate Dr. Leela Edwin, Director, CIFT, Kochi as an Expert to the Board of Studies (BoS) in Aquaculture

The Academic Council approved the proposals

Agenda Item No.6: Incentives to high level learning students

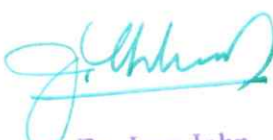
There are a number of students performing very well in curricular and extra-curricular activities but not acknowledged by our system. They deserve some kind of incentives in terms of credits/marks. So, a mechanism is to be evolved for awarding incentives to such students who are not getting any benefits in terms of credits/marks

The Academic Council accepted the proposal in principle and entrusted the IQAC of the college to work out the modalities

Agenda Item No.7: Other matters, if any, with the consent of the chair.

As there was no other matter, the meeting concluded at 4.30 PM after the formal vote of thanks by Dr. June Cyriac, Secretary of the Academic Council.




Dr. Jose John
Principal in Charge
Sacred Heart College (Autonomous)
Thevara, Kochi - 682 013