

**KARIM CITY COLLEGE, JAMSHEDPUR**  
**OUTCOMES OF UG & PG PROGRAMMES**

**DEPARTMENT OF BANGLA**

**UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

- 1) Linguistics and Grammar: Students develop a strong understanding of Bengali linguistics, including phonology, morphology, and syntax. They learn the basic grammar rules and linguistic features of the language
- 2) Literary History: Students explore the history of old, medieval, and modern Bengali literature. This includes studying literary movements, major achievements in prose, essays, and literary journals from the 19th to 20th century
- 3) Cultural Context: Students gain insights into the society, history, and culture within which the Bengali language has developed and is used. They integrate knowledge of social and political institutions, historical events, and cultural movements into their language acquisition.

**COURSE OUTCOMES  
OF  
BANGLA HONOURS**

**SEMESTER-1**

**CC-1- বাংলা কাব্য (নির্বাচিত) (Bangla kabya) Selected**

- বলাকা (Balaka) & সঞ্চিতা (Sanchita)
  - ‘Balaka’ is a reflection of famous philosophy of France Anri Bergson for this thought about creative evaluation. Bergson has directly effected the mind and soul of Tagore for his creation ‘Balaka’ evaluation theory has come out in each and every poem.
  - In ‘Sanchita’ it a collection of poems by Kazi Nazrool Islam. Poet Nazrool was a revolutionary poet in British India. His famous poem ‘Bidrohi’ which is in the syllabus, has given an indentity to Nazrool as poet of revolutinory, mean Bidrohi poet.

**CC-2- বাংলা উপন্যাস সাহিত্য (Bangla Uponnash Sahitya)**

- শরৎচন্দ্রের- ‘দেনাপাওনা’ ও বিভূতিভূষণের- ‘পথের পাঁচালী’ (Saratchandraer- ‘Dena Pawna’ & Bibhutibhushaner- ‘Pother Pachali’)
  - This Course deals with the Forms and features of contemporary novels, aiming at introducing the student to the analysis of a novel as a relatively long work of narrative fiction in prose and imparting a more mature understanding to the students about the challenging issues of the contemporary such as conflicts of interests between the society and the individual, the socio-cultural canopy of casteism, religious taboos, women’s position in the Bengali household, environmental issues and people’s struggle for socio-economic and political existence Uponyas. Introducing and analysis a novel is a relatively long work of narrative fiction in prose.

## GE-1- বাংলা প্রবন্ধ ও নাটক (Bangla Probandha & Natak)

- বঙ্কিমচন্দ্রের-‘মুচিরাম গুড়ের জীবনচরিত’ ও রবীন্দ্রনাথের-‘বিসর্জন’  
(Bankinchandrer-‘Muchiram Gurer Jibonchoritra’ & Rabindranather- ‘Bisarjon’)

This course will impart knowledge of the emergence and growth of the essay, arguments, discourses, subjective perspectives from mid-19th century and will provide a comprehensive knowledge of

1. linguistic and psychological tendencies of the 19th century, essays, categories of journalist views, reporting, personal essays, diary entries
2. the transitional phases during the World wars and other adversities which involves new experimentations in form and narratives on fascist tendencies and xenophobic attitude towards the colonised, cultural hegemony and diversity.

## AECC-1- মাতৃভাষা অধ্যয়ন (Matribhasha Adhyaan)

- ইংরেজি থেকে বাংলা, বাংলা থেকে ইংরেজী, সংবাদ প্রতিবেদন তৈরী, ভাবসম্প্রসারণ, কম্প্রিহেনশন, ব্যাকরণ

(Eng. to Ben, Ben. to Eng, Creating News Repot, Minding Extension, Comprehension, Grammer)

- Translators provide the means for people of different languages to be able to communicate ideas with anyone they choose. Sometimes governments from different countries need to exchange ideas and formulate solutions.

## SEMESTER- 2

### CC-3- বাংলা উপন্যাস (Novel)

- বঙ্কিমচন্দ্রের- ‘আনন্দমঠ’ ও শরৎচন্দ্রের- ‘পল্লীসমাজ’  
(Bankimchandraer-‘Anandhamath’ & Saratchandraer-‘Pollisomaj’)

- **‘Anandhamath’**- One prevalent central idea that runs throughout Bankim Chandra Chattopadhyay's “Anandamath” is the struggle between classes or races that leads to the benefits of the oppressor. The Hindu-Muslim conflict appears in “Anandamath”, as it allowed the British to oppress India for several centuries.
- **‘Pollisomaj’**- The novel deals with the efforts of Ramesh, a young Roorkee-trained engineer, to bring some change in the caste-ridden village and to elevate the villagers to a better level of existence. It deals in depth with the corruption that infects the village, and Ramesh's efforts to remove it.

### CC-4- বাংলা নাটক (Drama)

- রবীন্দ্রনাথের-‘অচলায়তন’ ও ‘মন্মথ রায়ের একাক্ষিকা’- চিত্তরঞ্জন লাহা  
(Rabindranather-‘Achalayatan’ & ‘Manmotha Rayer Ekankika’- Chittaranjan Laha)
- **‘Achalayatan’**- Rabindranath Tagore's Achalayatan (1912) Present an arena of conflicting faiths. Built on a story of resistance to the naturalness of life, Mahapanchak's 'Achalayatan', representing a quest of dry wisdom, turns into a petrified land of illusion and immobility.

### GE-2- বাংলা কাব্য ও উপন্যাস (Poetry & Novel) Selected

- রবীন্দ্রনাথের-‘সোনার তরী’ ও শরৎচন্দ্রের-‘পল্লীসমাজ’  
(Rabindranather-‘Sonar Tori’ & Saratchandraer-‘Pollisomaj’)
- **‘Sonar Tori’**- Sonar Tori, meaning Golden boat, is an inspiration from. Rabindranath Tagore's poetry, is a boat shaped bench.

## SEMESTER- 3

### CC-5- বাংলা সাহিত্যের ইতিহাস

- (প্রাচীন ও মধ্যযুগ)- দশম থেকে অষ্টাদশ  
(Prachin O Modhojug)- Dasham theke Astadash
1. To make students interested in Bengali Society, culture, literature and history of the Bengali people.
  2. To create a sense of history and historical analysis about Literature among the students.
  3. To make students aware about basic textual nuances of Medieval and Modern Bengali Literature.
  4. To make students aware about the evolution of the history of Bengali Literature and Culture.
  5. To give the idea of the inextricable interconnection between Literature and Culture.

### CC-6- মধ্যযুগের বাংলা সাহিত্য

- ডঃ চিত্তরঞ্জন লাহা সম্পাদিত-‘মধ্যযুগের সাহিত্য’
- অমরেন্দ্রনাথ রায় সম্পাদিত-‘শাক্ত পদাবলী’ (নির্বাচিত পদ)
  - To make students aware about the evolution of the history of Bengali Literature and Culture.
  - To create a sense of history and historical analysis about Literature among the students.

### CC-7- ভাষাতত্ত্ব

- সুকুমার সেন-‘ভাষার ইতিবৃত্ত’ - (ভাষা ও উপভাষা)

### GE-3- বাংলা প্রবন্ধ ও ছোটগল্প

- রবীন্দ্রনাথের- ‘জীবন স্মৃতি’ (ভৃঙ্গুরাজকল্প, হিমালয়, পিতৃদেব)
- বনফুলের শ্রেষ্ঠ গল্প (দুধের দাম, অদ্বিতীয়া, তিলোত্তমা, সুলেখার ক্রন্দন, বুধনী)

## SEMESTER- 4-

### CC-8- বাংলা কাব্য কবিতা

- যতীন্দ্রনাথ সেনগুপ্ত- ‘কবিতা সংকলন’ (নির্বাচিত)
- কালিদাস রায় সম্পাদিত- ‘মাধুকরি’ (নির্বাচিত)

### CC-9- বাংলা প্রবন্ধ সাহিত্য

- বঙ্কিমচন্দ্র- ‘লোকরহস্য’ (নির্বাচিত)
- রবীন্দ্রনাথের- ‘সংকলন’ (নির্বাচিত)

### CC-10- কাব্য জিজ্ঞাসা ও ছন্দ অলংকার

- অতুল গুপ্ত- ‘কাব্য জিজ্ঞাসা’ (নির্বাচিত)
- ছন্দ
- অলংকার

## SEMESTER- 5-

### CC-11- বাংলা ছোটগল্প

- রবীন্দ্রনাথের গল্পগুচ্ছ (২য় খন্ড) (নির্বাচিত)
- পরশুরাম- রাজ শেখর বসু- গল্পসমগ্র। (নির্বাচিত)

CC-12- বাংলা উপন্যাস সাহিত্য

- তারাশঙ্কর বন্দ্যোপাধ্যায়- ‘গনদেবতা’
- মানিক বন্দ্যোপাধ্যায়- ‘পদ্মানদীর মাঝি’

**Ganadebota-** The epic novel is set in the 1920s during the British Raj, about the breakdown of socio-economic structures, impact of industrialization and non-cooperation movement in rural Bangla. It had also won the writer Bandopadhyay, the 1967 Jnanpith Award.

**‘Padma Nadir Majhi’-** As a writer Manik Bandopadhyay always focused on the unequal section of our society. He tried to represent those who have no one, ‘The Classless People’. He flourished the cultural, political and economic aspects of Bengali society through his writing. As such the importance of ‘Padma Nadir Majhi’ in Bengali literature is quite significant. The story is based on the daily life of fishermen on the bank of the Padma River. The plot of the story flows like a river stream. In the story, the writer narrated the daily life of the fishermen in the slums. Also, Manikbabu emphasised the struggle of the lower class

### **DSC-I- (Optional)**

Group-A- রবীন্দ্র কাব্য / Group-B- চৈতন্য জীবনী কাব্য

- Group-A- ‘মানসী’ ও ‘কল্পনা’ কাব্যগ্রন্থ
- Group-B- ক) বৃন্দাবন দাস- ‘চৈতন্য ভাগবত’  
খ) কৃষ্ণদাস কবিরাজ গোস্বামী- ‘চৈতন্য চরিতামৃত’

## **COURSE OUTCOME OF BANGLA HONOURS (BA) UNDER NEP**

### **Course structure for Undergraduate Certificate Programme**

#### **SEMESTER- I**

**Paper Code &Name: - MJ-1**(Short story)

**Outcome-** Learning outcome of this syllabus is about the real picture of society and about socio- culture mixture of the Bengali literature.

#### **SEMESTER- II**

**Paper Code &Name: - MJ-2**

**Outcome-** In the history modern Bengali literature Tagore is a mile stone. When Tagore was flourished at that time three poets of Bengali literature established themselves. Three poets are Jatindranath Sengupta, Mohitlal Majumdar and Kazi Nazrul Islam. At the same time Jibonanonda Das, a poet of surrealism. Wrote his famous creation.

**Paper Code &Name: - MJ-3**

**Outcome-** Novel is from of epic, written in prose. Bengali novels start by the help of Bankim Chandra Chattopadhyay. We can say Bankim Chandra is the founder of Bengali novel, after this Rabindranath and Sarachchandra fulfil every think but after this time Bhibhutibhusan, Manik Bandyopadhyay, Tara Sankar Bandyopadhyay. Creates the golden his in the field Bengali novel.

## **SEMESTER- III**

### **Paper Code &Name: - MJ-4**

**Outcome-** Prose is a major part of literature. Bengali prose frothed at that time when other Indian languages just start to walk. Bankim Chandra starts the Bengali prose in a natural way and after that Tagore fulfills the work. Bengali prose established strongly at that time and a group of writers called 'Kallol group', where Promotho Choudhary was in the leading part.

### **Paper Code &Name: - MJ-5**

**Outcome-** Although drama is not a pure literature. But it is mixed literature. When Britishes established the theatre hall in Kolkata and it was entertaining to the British society through playing the drama. It in flushed Bengali literature, and Bengali Drama starts his own way. Michal Madhusudan and Dinabandhu Mitra started Bengali drama and these to famous dramatist started a new journey after that Grish Ghose and Tagore Completed entire the world of drama. Now we are watching Different Mythological, Historical and Social Drama.

## **SEMESTER- IV**

### **Paper Code &Name: - MJ-6**

History of Bangla literature here a details study on incites and medieval period. From the beginning Bangla literature started in and around ten century, Chorja Pod is the only evidences of ancient period.

### **Paper Code &Name: - MJ-7**

History of Bengali language- the origin and development of Bengali language. The origin of development the Bangla script and a details study on vowel and consonant (Swar & Benjan)

### **Paper Code &Name: - MJ-8**

A details study on modern Bangla novel, after Tagorian age a new concept starts in Bangla novel. Leady writer like Ashapura Devi and Mahasheta Devi floricide in this period

## **SEMESTER- V**

### **Paper Code &Name: - MJ-9**

For every rich literature Prosody and rhetoric is an important factor. Bengali literature has a rich prosody and rhetoric.

### **Paper Code &Name: - MJ-10**

Proch is an important part for any literature after British came to Bengal, Bengali literature started its own way in the light of English literature here the roll of Srirampur Baptist mission, Fortwilliam college. We can remember. Directly and in directly this instruction effected our literature.

### **Paper Code &Name: - MJ-11**

Origin and development of Indian language- there are three stages of Indian language, which we can say Sanskrit language. This may be called Aryan language. There Vedic literature Sanskrit literature Pali Litt, Prakrit Litt and then Bangla literature A brief history of Bangla language.

## **SEMESTER- VI**

### **Paper Code &Name: - MJ-12**

A details study on selected poems of ancient and middlable period., like Charja Pod, Srikrishna Kirtan and hagiography on Sri Chantana.

### **Paper Code &Name: - MJ-13**

A detail on poems in the concept of eastern and western method. Here student will read Kabya Jigyasa and similarly Aristoteles poetries.

### **Paper Code &Name: - MJ-14**

Language and dialect are interdepended similarly the stock of world on disnary of language is an important factor, in this paper a details study will be done.

### **Paper Code &Name: - MJ-15**

In the middlable period there is a special part which is called Bishnab literature hear a details study on Vidyapoti, Chondi Das, Gyano Das, Gobindo Das- students will read in details about these four poets.

## **SEMESTER- VII**

### **Paper Code &Name: - MJ-16**

In the light of English drama, Bangla drama flourished. Drama is a medium of propaganda and Bangla dramatists use to convey to the audience about the nationalism.

### **Paper Code &Name: - MJ-17**

Modern Bengali novels are not only the description of kings or land lords, but in modern period political and social problems are main topics

### **Paper Code &Name: - MJ-18**

Here some mild stones of Bengali poems- spicily Gitanjali of Tagore to be thought here.

### **Paper Code &Name: - MJ-19**

In the middlable period there was familiar poems- like mother and daughter (Aagomoni) got and his follower (Sakto Podaboli or Bhakto Akuti)

## **SEMESTER- VIII**

### **Paper Code &Name: - MJ-20**

Here the Litt. based on tour and travel. Like Palamo (Sanjeeb Chandra) Japan tour Tagore.

### **Paper Code &Name: - (RC- Research Internship/Fild work/Dissertation)**

Here research work on a special topic with research methodology and after using proper technique. Collection of data, details of explain and finding of research.

# **The Postgraduate Department of English**

## **Programme Outcomes, Programme Specific Outcomes & Course Outcomes**

### **of M. A. ENGLISH**

#### **Programme Outcomes**

PO1: Critical Thinking: Apply theoretical knowledge to make a critical analysis, intervene using innovative frameworks and evaluate and follow up.

PO2: Effective Communication: Engage in inter and intra personal communications, behavioural change communication and proficiency in information Communication Technology.

PO3: Scientific Temper: To build essential skills of life including questioning, observing, testing, hypothesizing, analysing and communicating.

PO4: Effective Citizenship: Demonstrate empathetic social concern and engage in service learning and community engagement programmes for contributing towards achieving of local, regional and national goals.

PO5: Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions and accept responsibility for them.

PO6: Environment and Sustainability: Participate and promote sustainable development goals.

PO7: Gender Sensitization and Social Commitment: To imbibe Gender sensitivity and the sense of social responsibility for self and community for the benefit of the society at large.

PO8: Self-directed and Life-long learning: Engage in continuous learning for professional growth and development.

#### **Programme Specific Outcomes**

PSO1: To familiarise with the writers of English literature across different ages and continents, their theories, perspectives, models and methods.

PSO2: To be able to demonstrate competence in analysis and critically analyse scholarly work in the areas of English language teaching, literary research and translation.

PSO3: To enhance literary and critical thinking.

PSO4: Application of the knowledge of Literature, theories, research and skills in different fields of literary practice.

PSO5: To develop the technical skills and ethical decisions appropriate for the holistic professional development in the field.

PSO6: Demonstrate a systematic understanding of the academic field of English Literature, its different branches and applications, and its linkages with related disciplinary areas, which are taught in the Masters' programme.

PSO6: Demonstrate procedural knowledge that creates different types of professional research and development, teaching and government/public service.

PSO7: Demonstrate skills in areas related to one's specialization within the area of English Literary Studies and emerging developments in the field.

PSO8: Demonstrate the ability to use the knowledge of English Literature in formulating reading habits and writing critically after interpreting literary texts in the classroom and other spheres.

PSO9: Recognize the importance of qualitative as well as quantitative data and approaches/methods in order to comprehend and analyse native, regional and global traditions of knowledge.

PSO10: Plan and execute field investigations, analyse and interpret critical articles/data collected using appropriate methods, including the use of the new theoretical frameworks like Marxism, Neo-Marxism, Feminism, Neo-Feminism, Gender Studies, Colonialism, Postcolonialism, Posthumanism, Structuralism, Post-structuralism, Deconstruction, Cultural Studies, Translation Studies, Film Studies, Subaltern Studies, Diaspora, Eco-criticism, Post-truth, Post-nation, Digital Humanities, Dalit Studies, Ambedkarism etc.

PSO11: Demonstrate relevant problem-solving skills and global competencies to address and respond to the aesthetic, literary and social dimensions of gender, class, caste, region through interdisciplinary methods.

PSO12: Develop communication skills involving the ability to comprehend, read texts and write research papers analytically and present complex information in a concise manner to different national and international audiences.

PSO13: Develop analytical skills to comprehend any aesthetic problem, investigate and construct logical arguments using literary concepts and theories.

PSO 14: Demonstrate soft skills in the realm of interpersonal relations, such as the ability to work both independently as well as collaboratively in multi-cultural groups.

PSO 15: Demonstrate the ability to identify ethical issues related to one's work, such as misrepresentation of data, plagiarism, appreciate diverse cultural ethos and adopt objective actions in all aspects of work.



# **Course Outcome**

## **SEMESTER 1**

### **CCENGL 101 - English Poetry: Chaucer to Milton**

The study of this course aims at instilling in students the following:

- Historical understanding of the development of poetry as a genre between the fourteenth and seventeenth centuries
- Appreciation of the work of Chaucer and his pioneering literary contribution
- Familiarity with the theme, style, and technique of Renaissance poetry
- Understanding the specific characteristics of the Metaphysical School of Poetry
- Appreciation of the epic form and the contribution of Milton

### **CCENGL 102 - English Drama: From Medieval to Jacobean**

The study of this course aims at instilling in students the following:

- Historical understanding of the development of drama as a genre between the Medieval and Jacobean Ages
- Identification of connections between Medieval Drama and the work of Marlowe and Shakespeare
- Appreciating Shakespeare, Shakespearean Drama and Shakespearean tragedy, in particular
- Understanding the classical construction of Ben Jonson's plays
- Identifying plots, themes, characterization, motifs, images, and symbols in the prescribed texts

### **CCENGL103 - English Prose: Elizabethan to the Twentieth Century**

The study of this course aims at instilling in students the following:

- Historical understanding of the development of prose and particularly, the essay form as a genre from the sixteenth to the twentieth century
- Appreciating the clarity of language and cadence in the *Book of Job*
- Appreciation and critical analysis of the shifting styles and registers of prose according to shifting aesthetic standards and social goals
- Close reading of the prescribed texts from the point of view of theme, language, perspective and style
- Placing the prescribed essayists in perspective and evaluating their contribution to the growth and variety of English prose

## **CCENGL 104 Classical Literary Criticism**

The study of this course aims at instilling in students the following:

- The historical context of the origin of criticism in classical Greece
- Understanding Plato's theory of Mimesis and his critique of poetry
- Examining Aristotle's ideas on Mimesis, his theory of tragedy, and his understanding of Catharsis as the goal of literature
- Understanding Longinus's concept of sublimity and the factors that promote it in writing
- Appreciation of comedy as a literary genre and its merits with reference to the work of Horace

## **CCENGL 105 Indian English Literature: Poetry & Drama**

The study of this course aims at instilling in students the following:

- Appreciating the socio-historical, political and cultural forces that shaped post-colonial Indian Writing in English
- Appreciating the growth, development and diversity of Indian Poetry in English
- Appreciating the growth, development, and socio-political context of Indian Drama in English
- Close reading of prescribed texts with close textual analysis of thematic as well as stylistic elements
- Reading Indian English Writing through the theoretical perspectives of race, caste, gender and environment among others

## **SEMESTER II**

### **CCENGL 201 English Poetry: From Restoration to Victorian**

The study of this course aims at instilling in students the following:

- Historical understanding of the development of poetry between the Restoration and Victorian Ages
- Exploring satire and the mock-epic as the major poetic forms of the eighteenth century
- Appreciating the differences between the neo-classical and romantic schools of poetry
- Understanding the philosophical shifts between Romantic and Victorian poetry
- Close textual analysis of the prescribed texts with attention to both thematic and prosodic elements

### **CCENGL 202 English Drama: From Restoration to Victorian**

The study of this course aims at instilling in students the following:

- Historical understanding of the development of drama between the Restoration and Victorian Ages
- Exploring the socio-cultural factors that shaped the rise of the Restoration Comedy
- Appreciating the Sentimental and Anti-sentimental comedies as genres
- Understanding the drama of ideas in the context of Industrialization and Victorian society
- Close textual analysis of the prescribed texts with attention to both thematic and stylistic elements

## **CCENGL 203 English Fiction I**

The study of this course aims at instilling in students the following:

- Historical understanding of the emergence and development of the novel as a literary form
- Examining the forces of market and materialism that shaped the eighteenth-century novel
- Close reading of the prescribed texts with reference to plot, theme, characterization, motif, images and symbols
- Appreciating narrative form and the dominance of the picaresque mode in fiction
- Exploring the prescribed texts from theoretical perspectives of class, gender, race and environment among others.

## **CCENGL 204 English Literary Criticism: Elizabethan to Victorian**

The study of this course aims at instilling in students the following:

- The historical context of the growth and development of criticism in England
- Understanding the influence of classical criticism on Sidney
- Examining the originality of Dryden and Johnson as critics
- Appreciating Wordsworth as a pioneer Romantic critic
- Examining Arnold's views on literature vis-à-vis the anxieties in Victorian culture and society

## **CCENGL 205 Indian English Literature: Fiction**

The study of this course aims at instilling in students the following:

- Appreciating the socio-historical, political and cultural forces that shaped post-colonial fiction in Indian Writing in English
- Appreciating the growth, development and thematic and stylistic diversity of the Indian English novel
- Paying attention to the overarching themes of geography, political and social borders, history, myth and memory
- Close reading of prescribed texts with close textual analysis of thematic as well as stylistic elements
- Reading the prescribed texts through the theoretical perspectives of race, caste, class, gender and environment, among others.

## **SEMESTER III**

### **CCENGL 301 Modern English Poetry**

The study of this course aims at instilling in students the following:

- Historical understanding of the development of poetry in the early twentieth century
- Exploring the shock of the First World War and corresponding philosophical shifts
- Examining escapism and nostalgia in Modernist poetry
- Appreciating experimentation with language, style and technique to represent alienation and fragmentation in the modernist sensibility
- Close textual analysis of the prescribed texts with attention to both thematic and stylistic elements

## **CCENGL 302 Fiction II**

The study of this course aims at instilling in students the following:

- Historical understanding of the socio-economic conditions of the Victorian period and its impact on the novel
- Examining themes of violence, alienation and human psychology that shaped the modernist novel
- Close reading of the prescribed texts with reference to plot, theme, characterization, motif, images and symbols
- Appreciating diverse narrative techniques and the varied exploration of characters
- Exploring the prescribed texts from theoretical perspectives of class, gender, race and environment among others.

### **DSEENGL 301 Group A- American Literature: Poetry & Drama**

The study of this course aims at instilling in students the following:

- Historical understanding the growth and development of American Literature in a socio-political context
- Appreciating the distinctive character and diversity of American Poetry and its difference from British Poetry
- Exploring the socio-political engagement of American Drama
- Detailed study of prescribed texts with close textual analysis, both thematic and stylistic
- Exploring the prescribed texts from theoretical perspectives of class, gender, race and environment, among others.

### **DSEENGL 301 Group B- New Literatures in English: Poetry & Drama**

The study of this course aims at instilling in students the following:

- Reading New Literatures in a postcolonial historical context
- Examining nation, borders, the politics of language, and discourses of identity in New Literatures
- Reading literary texts in a cultural context and appreciating their multi-voicedness
- Understanding key concepts such as culture, marginality, gender, identity, expression and representation
- Close reading of prescribed texts in the context of issues of power and identity

### **DSEENGL 301 Group C- Linguistics I**

The study of this course aims at instilling in students the following:

- Understanding the definitions, scope, branches and application of linguistics as an academic discipline

- Understanding the human speech mechanism and basic phonetic concepts such as Vowels, Consonants, Phonemes and Allophones
- Understanding basic Morphological concepts such as morphemes, their types, Word formation, Sentence types etc
- Understanding basic Syntactical concepts such as Phrases, Clauses, Sentence Patterns, I.C. Analysis etc
- Understanding Semantic concepts such as meaning and Ambiguity

### **DSEENGL 302 Group A- American Literature: Fiction & Non-Fictional Prose**

The study of this course aims at instilling in students the following:

- Understanding the nature, character and diversity of the American Novel
- Reading language and style in the American essay
- Reading the motif of the Frontier in the American Novel
- Native American Writing and black Writing in the American Novel
- Detailed study of prescribed texts with close attention to plot, theme, motifs, characterization, and language

### **PREENGL 301: Project**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Identifying worthwhile areas of research in their field of study
- Undertaking a literature review in order to frame pertinent research questions
- Planning and plotting out a dissertation that will contribute new knowledge
- Preparation of reading lists to build a knowledge base in the identified area
- Writing a theoretically consistent dissertation with due credit to and acknowledgement of sources

### **SEMESTER IV**

### **CCENGL 401 Modern English Drama**

The study of this course aims at instilling in students the following:

- Understanding the revival of British Drama in the Victorian Period in the light of European dramatic influences, specifically that of Henrik Ibsen
- Understanding the origin, characteristics, growth and development of the theatre of the Absurd with special reference to Samuel Beckett
- Understanding the revival of poetic drama with reference to T.S. Eliot
- Appreciating the arrival of the Angry Young Man in post-World War II drama
- Detailed study of prescribed texts with close textual analysis and special attention to dramatic art

## **CCENGL 402 Contemporary Literary Theory & Criticism**

The study of this course aims at instilling in students the following:

- Understanding and appreciating trends in literary criticism from the late Victorian to the Contemporary Period
- Understanding the conceptual agenda of the various schools of criticism, their philosophical underpinnings and social practice
- Understanding the interdisciplinary nature of critical theory and its multidimensional practice
- Detailed reading of the prescribed critical essays
- Understanding literary theory as a theoretical and political point of view for the creation of a better world

## **DSEENGL 401 Group A- Shakespearean Studies: Tragedy**

The study of this course aims at instilling in students the following:

- Understanding Shakespearean tragedy with reference to Renaissance drama and Marlowe
- Drawing connections among Shakespeare's tragedies from the early to the later plays.
- Analyzing plot, characterization and language in Shakespeare's tragedies
- Detailed study of the texts prescribed in the syllabus
- Deploying common critical approaches to reading Shakespeare including those which focus on race, gender, sexuality, class, and literacy.

## **DSEENGL 402 Group A- Shakespearean Studies: Comedy**

The study of this course aims at instilling in students the following:

- Understanding Shakespeare's comedy with reference to native English drama
- Understanding character, form, spectacle, theme, sources, the original conditions of production, and the reproduction of Shakespeare's comedies in a contemporary context
- Understanding Shakespeare's dramatic techniques, historical and cultural setting, and language in comedy
- Detailed study of the texts prescribed in the syllabus
- Identifying the social and ethical questions raised by Shakespeare's comedies

## **PREENGL 401: Project**

The study of this course aims at instilling in students the following:

- Identifying areas for independent and sustained critical investigation on a chosen research topic
- Identifying relevant theory, concepts, and appropriate methodologies to work with in this domain
- Engaging in systematic and critical review of relevant information sources
- Understanding and applying ethical standards of conduct in the collection and evaluation of data and other resources

- Communicating research concepts and contexts effectively both orally and in writing

## **THE POSTGRADUATE DEPARTMENT OF ENGLISH**

### **UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

#### **Objectives**

- To create, among students, a sense, a taste and an understanding of literature
- To assist students to develop their horizon of thought, intellect, sensibilities and sensitivities
- To help them become intellectually dynamic, emotionally humanitarian and academically trustworthy
- To make them creative and culturally understanding
- To develop the feeling of camaraderie and cooperation and to develop deeper understanding of humanitarian concerns
- To nurture their linguistic, communicative and employability skills

#### **Programme Specific Outcomes**

**PSO 1 – Understanding of Literature, Literary Forms and Genres:** Students will be able to understand what literature is. They will perceive the sense and understanding of literature, including its characteristic features, forms and genres.

**PSO 2 - Literary Knowledge Across Ages:** Students will acquire knowledge of British, American, Indian, European, Commonwealth, and other new literatures across different historical periods. They will be able to understand literary ages, periods, trends and movements. This involves studying influential works from various literary traditions.

**PSO 3 - Awareness about Authors and their Works:** Students will not only be able to read the texts and authors prescribed in the curriculum but they will also come to know about a huge plethora of works and a good number of writers across languages.

**PSO 4 - Textual Interpretation Strategies:** Students will learn appropriate strategies for interpreting different literary genres. They will develop skills in close reading, critical analysis, and understanding underlying meanings in texts.

**PSO 5 - Higher Order Thinking Skills:** English Literature programmes aim to enhance students' critical thinking abilities. Graduates should be able to analyze, interpret, and evaluate major forms of literature.

**PSO 6 - Awareness of Ideologies Through Literature:** Students will explore the causes and effects of social, political, and cultural ideologies through literary texts. This will foster a deeper understanding of societal issues and human experiences.

**PSO 7 - Language Skills and Communication:** Students will cultivate language skills at a perceivable level for effective communication and employability. This includes proficiency in both written and spoken English

**PSO 8 - Social Commitment and Ethical Behaviour:** English Literature education encourages a sense of social commitment. Graduates are expected to shape their personality traits with moral and ethical behaviour.

**PSO 9 - Transferable Life Skills:** Students will learn to transfer their academic accomplishments into practical life skills. This includes adaptability, creativity, and cultural literacy.

**PSO 10 - Global Knowledge and Career Readiness:** Graduates will gain knowledge that aligns with regional, national, and global needs. They will be prepared to face the challenges of a competitive world and make informed career choices.

## **THE POSTGRADUATE DEPARTMENT OF ENGLISH**

### **UG Course Outcomes**

#### **SEMESTER I**

Paper Code: Major 1 (MJ 1)

Paper Name: Indian Classical Literature

#### **Course Level Learning Outcomes:**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- Explain the eco-socio-political-cultural context of the age that produced Indian classical literature from its early beginning till 1100 AD
- appreciate the pluralistic and inclusive nature of Indian classical literature and its attributes
- historically situate the classical literature and diverse literary cultures from India, mainly from Sanskrit, but also Tamil, Prakrit and Pali by focusing on major texts in the principal genres
- trace the evolution of literary culture(s) in India in its/their contexts, issues of genres, themes and critical cultures
- understand, analyze and appreciate various texts with comparative perspectives

#### **SEMESTER II**

Paper Code: Major 2 (MJ 2)

Paper Name: European Classical Literature

#### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:



- historically situate classical European, i.e., Greek and Latin literary cultures and their socio-political-cultural contexts
- engage with classical literary traditions of Europe from the beginning till the 5<sup>th</sup> century AD
- grasp the evolution of the concept of classic and classical in the European literary thinking and its reception over a period of time
- appreciate classical literature of Europe and pursue their interests in it
- examine different ways of reading and using literary texts across a wide range of classical authors, genres and periods with comparative perspectives
- develop ability to pursue research in the field of classics
- develop academic and practical skills in terms of communication and presentation and also learn about human and literary values of classical period

Paper Code: Major 3 (MJ 3)

Paper Name: Indian Writing in English

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- Appreciate the historical trajectory of various genres of IWE from colonial times till the present
- Critically engage with Indian literary texts written in English in terms of colonialism/postcolonialism, regionalism, and nationalism
- Critically appreciate the creative use of the English language in IWE
- Approach IWE from multiple positions based on historical and social locations

### **SEMESTER III**

Paper Code: Major 4 (MJ 4)

Paper Name: British Poetry and Drama: 14<sup>th</sup> to 17<sup>th</sup> Centuries

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- understand the tradition of English literature from 14<sup>th</sup> to 17<sup>th</sup> centuries.
- develop a clear understanding of Renaissance Humanism that provides the basis for the texts suggested
- engage with the major genres and forms of English literature and develop fundamental skills required for close reading and critical thinking of the texts and concepts
- appreciate and analyze the poems and plays in the larger socio-political and religious

Paper Code: Major 5 (MJ 5)

Paper Name: American Literature

## **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- Understand the depth and diversity of American literature, keeping in mind the history and culture of the United States of America from the colonial period to the present (17<sup>th</sup> century to 21<sup>st</sup> century)
- understand the historical, religious and philosophical contexts of the American spirit in literature; social-cultural-ecological-political contexts may, for example, include the idea of democracy, Millennial Narratives, the Myth of Success, the American Adam, the Myth of the Old South, the Wild West, Melting pot, Multiculturalism, etc.
- appreciate the complexity of the origin and reception of American literature, given its European and non-European historical trajectories, particularly in relation to writers of European (Anglo-Saxon, French, Dutch and Hispanic) descent, as well as writers from black and non-European (African, American Indian, Hispanic-American and Asian) writing traditions
- critically engage with the complex nature of American society, given its journey from specific religious obligations and their literary transformations (such as Puritanism, Unitarianism, Transcendentalism, etc.) to the growth of anti-or non-Christian sensibilities
- critically appreciate the diversity of American literature in the light of regional variations in climate, cultural traits, economic priorities
- explore and understand the nature of the relationships of human beings to other human beings and other life forms in relation to representative literary texts in various genres

## **SEMESTER IV**

Paper Code: Major 6 (MJ 6)

Paper Name: Popular Literature

## **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- trace the early history of print culture in England and the emergence of genre fiction and best sellers
- engage with debates on high and low culture, canonical and non-canonical literature
- articulate the characteristics of various genres of non-literary fiction
- investigate the role of popular fiction in the literary poly system of various linguistic cultures
- demonstrate how popular literature belongs to its time
- Use various methods of literary analysis to interpret popular literature

Paper Code: Major 7 (MJ 7)

Paper Name: British Poetry and Drama: 17<sup>th</sup> & 18<sup>th</sup> Centuries

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- identify the major characteristics of the Comedy of Manners and Mock-Heroic poetry
- demonstrate in-depth knowledge and understanding of the religious, socio-intellectual and cultural thoughts of the 17th and 18th centuries
- examine critically key themes in representative texts of the period, including Sin, Transgression, Love, Pride, revenge, sexuality, human follies, among others
- show their appreciation of texts in terms of plot-construction, socio-cultural contexts and genre of poetry and drama
- analyze literary devices forms and techniques in order to appreciate and interpret the texts

Paper Code: Major 8 (MJ 8)

Paper Name: British Literature: 18<sup>th</sup> Century

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- explain and analyze the rise of the critical mind
- trace the development of Restoration Comedy and anti-sentimental drama
- examine and analyze the form and function of satire in the eighteenth century
- appreciate and analyze the formal variations of Classicism
- map the relationship between the formal and the political in the literature of the neoclassical period

## **SEMESTER V**

Paper Code: Major 9 (MJ 9)

Paper Name: Romantic Literature

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- understand Romanticism as a concept in relation to ancillary concepts like Classicism
- understand the Romantic period in English literature in terms of its social, philosophical, intellectual, literary backgrounds including German and French influences
- analyze and understand the main characteristics of Romanticism
- appreciate the canonical and representative poems and prose of the writers of the Romantic period.
- develop skills of critical analysis and interpretation of selected poems in order to understand the theme, language, style, and elements of prosody.

- appreciate and analyze the sensibility of the British Romantic period: common man, equality, freedom, sense of community and fraternity
- relate Romantic literary texts to other forms of expression such as painting, for instance.

Paper Code: Major 10 (MJ 10)

Paper Name: British Literature: 19<sup>th</sup> Century

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- identify and analyze the socio-economic-political contexts that inform the literature of the period
- comment on the historical and political awareness of literary texts as reflected in the transition from nature to culture across various genres
- understand the conflict between self and society in different literary genres of the period
- link the rise of the novel to the expansion of Colonialism and Capitalism
- understand the transition from Romantic to Victorian in literature and culture
- link the Victorian temper to political contexts in English colonies
- link the changes in the English countryside to changes brought about in similar settings in India

Paper Code: Major 11 (MJ 11)

Paper Name: Women's Writing

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- recognise the importance of gender specificity in literature
- understand and appreciate the representation of female experience in literature
- explain the difference between the feminine and the feminist as opposed to the female
- examine and appreciate the role played by socio-cultural-economic contexts in defining woman
- link the status of woman to social discrimination and social change
- draw a location specific trajectory of female bonding or empowerment
- to understand the complexity of social and biological constructions of manhood and womanhood
- to examine the relationship of women to work and production

## **SEMESTER VI**

Paper Code: Major 12 (MJ 12)

Paper Name: British Literature: The Early 20<sup>th</sup> Century

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- trace the history of modernism in the socio-cultural and intellectual contexts of late nineteenth century and early twentieth century Europe
- link and distinguish between modernity and modernism

- explain the links between developments in science and experiments in literature
- explain the history of early twentieth-century modernism in the light of stream of consciousness, Jungian and Freudian ideas, Psychoanalysis, Imagism, Cubism, Vorticism
- identify and analyze the use and modernist technique in different genres in early twentieth century British literature
- trace the history of the self and subjectivity in literature in the light of colonial consciousness
- explain and analyze the idea of form in modernist literary texts from across major genres

Paper Code: Major 13 (MJ 13)

Paper Name: Modern European Drama

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- understand the role of theatre and drama in the introduction and shaping of modernity
- understand and engage with concepts like realism, naturalism, symbolism, expressionism, the Avant Garde, the epic theatre, the theatre of the absurd, etc.
- understand how meaning is created in theatre and be able to write about innovations introduced into theatrical practice in the late nineteenth and the twentieth century

Paper Code: Major 14 (MJ 14)

Paper Name: Postcolonial Literatures

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- understand the social-historical-political-economic contexts of colonialism and postcolonialism in India and other countries affected by colonial rule
- understand the scope of postcolonial literatures in India and elsewhere, primarily as a response to the long shadow of colonialism, not just of colonial occupation
- see through a corpus of representative postcolonial texts from different colonial locations: the effects of colonial rule on the language, culture, economy and habitat of specific groups of people affected by it
- appreciate and analyze the growing spectres of inequality arising out of colonial occupation and the role played by postcolonial literatures to resist it in India and similar locations
- critically engage with issues of racism and imperialism during and after colonial occupation
- appreciate the changing role and status of English in postcolonial literatures
- link colonialism to modernity

Paper Code: Major 15 (MJ 15)

Paper Name: Modern Indian Writings in English Translation

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- appreciate the diversity of modern Indian literatures and the similarities between them
- understand and creatively engage with the notion of nation and nationalism
- appreciate the impact of literary movements on various Indian literatures
- critically engage with significant social issues like caste and gender
- understand the historical trajectories of Indian literatures

### **SEMESTER VII**

Paper Code: Major 16 (MJ 16)

Paper Name: Literature of the Indian Diaspora

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- understand the concept of 'diaspora' in its historical and cultural contexts
- identify different aspects of Indian diasporic consciousness and the literary features of diasporic texts
- develop a clear understanding of the formation of Indian diasporic movements within India and outside
- develop a critical understanding of the writings of the Indian diaspora within the discourse of postcoloniality, postmodernity, hybridity, globalization and transnationalism.
- develop the analytical ability to read diasporic texts and analyze key diasporic issues such as displacement, nostalgia, alienation, belonging, identity, gender, racism and assimilation
- understand the main currents of Indian diasporic narratives
- examine how texts function as diasporic markers, broadening the understanding of Indian diasporic lives, cultural practices, experiences, religion and the new medium.

Paper Code: Major 17 (MJ 17)

Paper Name: British Literature: Post World War II

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- understand the social-historical-political-economic contexts of Post-World War II British Literature
- understand the relationship between World war II and the end of colonialism
- identify the social-historical-political changes in England after World War II
- see through a corpus of representative texts the rise of multiculturalism in England in the wake of migrations of people from colonial territories
- grasp the changing role of English in the new world order
- critically analyze and link changes in social norms to new literary forms

- engage with the idea of the postmodern and the rise of the postmodernist aesthetics
- appreciate the importance of location in understanding the self and the other

Paper Code: Major 18 (MJ 18)

Paper Name: Literary Criticism

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- understand the historical and philosophical contexts that led to the development of literary criticism and its practice in different traditions and periods
- learners will be able to understand fundamental literary and critical concepts and underlying distinctions amongst them (e.g., difference between literary criticism and literary theory)
- learners will be able to grasp a wide range of literary philosophers and critics whose works had informed and shaped the discourse of literary theory
- learners will have knowledge about major, critical movements and critics in various critical traditions – Indian (schools of Rasa, Alamkar, Riti, Dhvani, Vakroti, Auchitya) and Western (Greek, Roman, English, German, Russian and French)
- learners will be able to identify theoretical and critical concepts with critics/texts/movements with which they are associated and understand them in their contexts
- learners will be able to apply various theoretical frameworks and concepts to literary and cultural texts
- learners will be able to evaluate and analyze strengths and limitations of critical / theoretical frameworks and arguments
- learners will be able to strengthen and deepen their interpretative skills

Paper Code: Major 19 (MJ 19)

Paper Name: Literary Theory

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- have a historical overview of major literary theorists, particularly of the 20th century
- show an understanding of historical and philosophical contexts that led to the development of literary theory and its practices
- develop awareness of various literary theories and the way they enrich and change our thinking about language, literature and society
- historically situate literary theorists whose works had informed and shaped various literary theoretical discourses
- identify theoretical concepts with theorists and movements with which they are associated and in the process understand their contexts
- apply various theoretical frameworks and concepts to literary and cultural texts

- evaluate and analyze strengths and limitations of theoretical frameworks and arguments
- sharpen interpretative skills in the light of various theoretical frameworks

## **SEMESTER VIII**

Paper Code: Major 20 (MJ 20)

Paper Name: Science Fiction and Detective Literature

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- write critically about the two genres: Science Fiction, and Detective Literature
- engage with the philosophical and psychological and social issues that are an intrinsic part to the two genres
- think through the concept of progress, and the role of technology in our life and the interaction between technology and human behaviour
- engage with the social and historical construction of crime
- analyze individual or multiple texts in the two genres in terms of key concepts including genre, implied audience, plot construction, linguistic texture, authorial identity, publication context, and sociocultural context

Paper Code: Advance Major 1 (AMJ 1)

Paper Name: World Literatures

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- explain the concept of World Literature and its evolution in relation to other related concepts e.g. national literature, general literature, comparative literature and Vishwa Sahitya.
- appreciate the connectedness and diversity of human experiences and literary responses to them in different parts of the world.
- analyze and appreciate literary texts from different parts of the world and receive them in the light of one's own literary traditions.
- analyze and interpret literary texts in their contexts and locate them.

Paper Code: Advance Major 2 (AMJ 2)

Paper Name: Partition Literature

### **Course Learning Outcomes**

Some of the learning outcomes that learners of this course are required to demonstrate are mentioned below:

- explain historical and socio-cultural factors responsible for the Partition of Indian Sub-continent.
- demonstrate critical understanding of manifestations of the experience of the partition in various art forms.



- link and analyze the eco-socio-historical-cultural contexts and dimensions related to the Partition of India e.g. nation, nationalism, communication, violence, exile, homelessness, refugee, rehabilitation, resettlement, border and border lands (colonialism and post colonialism), literary responses to the partition in different parts of Indian continent and interpret them.
- interpret texts and experience and relate it to their contexts and experiences

Paper Code: Advance Major 3 (AMJ 3)

Paper Name: Autobiography and Life Writing

### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

- demonstrate a familiarity with kinds of writing which seek to represent and make sense of the experiences of the individual.
- understand the relationship between self and history, truth, claims and fiction in private and public spheres.
- explain the working of memory, politics of memory and its role in constructing identity.
- explain and analyze how life writing provides alternatives to existing ways of writing history.
- examine the status of life writing as a literary form and the history of its reception
- appreciate the emergence of life writing non-western context.

**THE DEPARTMENT OF HINDI**  
**UG PROGRAMME SPECIFIC OUTCOMES**  
**B.A Hindi (Hons., CBCS)**

After completion of B.A. HINDI (HONS), a student will be able to...

- Explain the history of Hindi Literature in the context of the present scenario and develop a futuristic outlook.
- Discuss the different streams of poetry of different eras, like the freedom struggle developing feelings of patriotism, and also differentiate between poetry for common people and class people, as well as their impact at the national and international levels.
- Describe literary criticism and theoretical perspectives of Hindi literature and become capable of literary writing.
- Define correctly different issues present in Indian society (poverty, illiteracy, capitalism, gender issues, and caste and class issues) by studying stories, novels, dramas and other prose.
- Express a clear concept of Communication and mass media, their history, types, importance and uses in the present era, along with the ability to develop writing skills in regard to this and build a career in this field.
- Present themselves as thoughtful, skilled, independent, worthy and competent citizen of the society, Nation and world.
- Raise the different issues related to language, different local and left behind languages and about their cultural aspects.

**FYUGP PATTERN**

**Semester-1**

**Major – 1 HINDI SAHITYA: AADIKAL SE PURVAMADHYA KAAL – RACHNAYEN EVAM  
ITIHAS**

**Unit 1**

On the completion of this paper students will be able to:

- Explain the tradition of writing History of Hindi literature.
- Analyse the importance of classification of cult of Hindi literature.
- Identify characteristics of Aadikaal of Hindi literature.
- Analyse the Naming tradition of Aadikaal.
- Discuss the socio-political and economic circumstances of Aadikaal and its impact on literature of Aadikal
- Identify, analyze and appreciate the Raso poetry tradition (like Prithviraj Raso, Khumman Raso, Hammeer Raso, Parmaal Raso)
- Identify, analyze and appreciate the Naath and Jain literature and the experiences on which Naath and Jain literature took place.
- Explain the importance of literature of Aadikal in the development of Hindi literature.

**Unit 2**

On the completion of this paper students will be able to:

- Explain the naming of the Bhaktikaal, its literature and classification of literature of Bhakti cult.
- Analyse the tendencies and characteristics of Sagun Bhakti literature and its related circumstances.
- Give the Introduction and explain their literary works of Tulasidas, Meerabai, Agradas, Surdas, Kumbhandas, Nanddas, Chhitswami.
- Analyse the tendencies and characteristics of Nirgun Bhakti literature its related socio-political and economic circumstances.

- Give the Introduction and explain their literary works of Kabirdas, Raidas, Nanakdev, Dadudayal, Sundardas, Malukdas, Nanddas.
- Discuss, analyze and appreciate the characteristics Language forms of Nirgun Bhakti literature.
- Analyse the tendencies and characteristics of Premakhyanak Bhakti literature with special reference to Padmavat of Jayasi, Madhumalti and Rupmajhari of Manjhan.
- Present the aesthesia of Sufi and Premakhyanak literature.

### **Unit 3**

On the completion of this paper students will be able to:

- Explain the meaning of padas of Vinaypatrika(1-5) written by Tulasidas
- Appreciate the style of Padas of Vinaypatrika(1-5) written by Tulasidas
- Explain the meaning of padas of Bhakti (1-5) written by Sudas
- Appreciate the style of Padas of Bhakti (1-5) written by Surdas
- Explain the meaning of padas (1-5) written by Meerabai.
- Appreciate the style of Padas (1-5) written by Meerabai.
- Explain the meaning of padas of ‘Guru ko Ang’ written by Kabir.
- Appreciate the style of Padas of ‘Guru ko Ang and Gyan Virah’ written by Kabir.
- Explain the meaning of padas of ‘Padmavat’(1-5) written by Jayasi.
- Appreciate the style of Padas of ‘Padmavat’ (1-5) written by Jayasi.

## **FYUGP PATTERN**

### **Semester-1**

#### **Minor – 1 Language and Communication Skill in Hindi**

### **Unit 1**

On completion of the course, students are able to

- 1. To able to understand the importance of social media.
- 2. To able to understand the impact of social media on society.
- 3. To able to understand the relation between social media and law.
- 4. To able to understand the problems of social media and their remedies

### **Unit 2**

On the completion of this paper students will be able to:

- Explain the naming tha Bhaktikaal, its literature and classification of literature of Bhakti cult.
- Analyse the tendencies and characteristics of Sagun Bhakti literature and its related circumstances.
- Give the Introduction and explain their literary works of Tulasidas, Meerabai, Agradas, Surdas, Kumbhandas, Nanddas, Chhitsuwami.
- Analyse the tendencies and characteristics of Nirgun Bhakti literature its related socio-political and economic circumstances.
- Give the Introduction and explain their literary works of Kabirdas, Raidas, Nanakdev, Dadudayal, Sundardas, Malukdas, Nanddas.
- Discuss, analyze and appreciate the characteristics Language forms of Nirgun Bhakti literature.
- Analyse the tendencies and characteristics of Premakhyanak Bhakti literature with special reference to Padmavat of Jayasi, Madhumalti and Rupmajhari of Manjhan.
- Present the aesthesia of Sufi and Premakhyanak literature.

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- Explain the meaning of padas of Vinaypatrika(1-5) written by Tulasidas
- Appreciate the style of Padas of Vinaypatrika(1-5) written by Tulasidas

- Explain the meaning of padas of Bhakti (1-5) written by Sudas
- Appreciate the style of Padas of Bhakti (1-5) written by Surdas
- Explain the meaning of padas (1-5) written by Meerabai.
- Appreciate the style of Padas (1-5) written by Meerabai.
- Explain the meaning of padas of 'Guru ko Ang' written by Kabir.
- Appreciate the style of Padas of 'Guru ko Ang and Gyan Virah' written by Kabir.
- Explain the meaning of padas of 'Padmavat'(1-5) written by Jayasi.
- Appreciate the style of Padas of 'Padmavat' (1-5) written by Jayasi.

# THE POSTGRADUATE DEPARTMENT OF URDU

## PG PROGRAMME SPECIFIC OUTCOMES

- The Program Specific Outcomes of a Post-graduation in Urdu language typically include the development of communicative skills and comprehension of literary texts. Students are expected to critically understand and examine various literary genres of the Urdu language, which helps inculcate critical thinking. This enables them to contribute to the linguistic, creative, intellectual, social, and economic development of society.
- Upon successful completion of the Master's in Urdu program, graduates will demonstrate:
- **PSO1 Urdu Ghazal:** Understanding its form, distinctive features, and techniques involved in crafting it. Knowledge about important Ghazal poets like Mir Taqi Mir, Ghalib, and modern poets like Faiz Ahmad Faiz.
- **PSO2 Urdu Nazm:** Learning about its form, stages of development, variations in form, and the distinctive style of various Nazm poets.
- **PSO3 Classical Urdu Prose (Dastan):** Origin and development of dastan, reasons for its rise and fall, and analysis of important Urdu daastans.
- **PSO4 Urdu Drama:** Understanding the art of drama, its origin and development, and analysis of masterpieces by various Urdu dramatists.
- **PSO5 Urdu Criticism:** Basics of literary criticism, various schools of criticism, and critical evaluation of literary samples.
- **PSO6 History of Urdu Literature:** Awareness about historical events of the Urdu language and understanding linguistic features like Daccani Urdu.
- **PSO7 Advanced Proficiency in Urdu Language:** Mastery of advanced linguistic skills in Urdu, including proficiency in reading, writing, speaking, and comprehension across various registers and genres.
- **PSO8 Critical Analysis and Interpretation:** Advanced ability to critically analyze and interpret complex Urdu literary texts, applying theoretical frameworks and contextual understanding to produce nuanced scholarly insights.
- **PSO9 Specialized Knowledge in Urdu Literature:** In-depth knowledge of specific genres, periods, or themes within Urdu literature, demonstrating expertise in areas such as poetry, prose, drama, or literary criticism.
- **PSO10 Research Excellence:** Proficiency in conducting independent research in Urdu language and literature, including the formulation of research questions, methodological approaches, and rigorous scholarly writing.
- **PSO11 Interdisciplinary Integration:** Ability to integrate insights from related disciplines such as comparative literature, cultural studies, linguistics, and history to enrich the understanding and interpretation of Urdu literature and culture.
- **PSO12 Publication and Presentation Skills:** Competence in presenting research findings effectively through scholarly publications, conference presentations, and other academic forums, adhering to international academic standards.
- **PSO13 Digital and Technological Literacy:** Utilization of digital tools, resources, and methodologies relevant to advanced research in Urdu studies, enhancing access to primary sources and facilitating innovative scholarly inquiry.
- **PSO14 Leadership and Collaboration:** Capacity to lead and collaborate effectively in academic and professional settings within the field of Urdu studies, fostering intellectual exchange and advancing scholarly discourse.
- **PSO15 Cultural and Global Awareness:** Appreciation of Urdu-speaking cultures in their global contexts, including awareness of diverse perspectives and contributions to world literature and intellectual traditions.
- **PSO16 Ethical Responsibility and Professional Ethics:** Commitment to ethical standards in research and academic practice, demonstrating integrity and accountability in scholarly endeavors and professional interactions.

- **PSO17 Career Readiness and Academic Pursuits:** Preparedness for careers in academia, research institutions, cultural organizations, publishing, journalism, translation, and related fields, as well as readiness for further academic pursuits at the doctoral level.
- **PSO18 Commitment to Lifelong Learning:** Dedication to ongoing professional development and intellectual growth in Urdu language, literature, and associated interdisciplinary fields, contributing to the advancement of knowledge and cultural understanding.
- This outcome emphasizes the advanced linguistic, scholarly, and professional competencies expected from graduates of a Master's program in Urdu, preparing them for leadership roles in academia, research, and cultural institutions. Additionally, students may learn about the science of languages, morphology, phonology, syntax of Urdu language, and the era of Sir Syed Ahmad Khan. These outcomes prepare students for employment in academic institutions or other organizations that enhance academia-industry linkages. They also prepare students for further studies or a professional writing career and teaching Urdu in schools, colleges, and universities.

## **THE POSTGRADUATE DEPARTMENT OF URDU**

### **UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

- Upon successful completion of the Bachelor's in Urdu program, graduates will demonstrate:
- **PSO1 Enhanced Communicative Skills:** Students develop the ability to communicate effectively in Urdu, both orally and in writing.
- **PSO2 Comprehension of Literary Texts:** A deep understanding of various literary genres and texts in Urdu is achieved.
- **PSO3 Critical Analysis:** The ability to critically analyze and examine literary works, understanding their historical, cultural, and social contexts.
- **PSO4 Research Skills:** Development of research skills to conduct scholarly work in the field of Urdu language and literature.
- **PSO5 Creative Writing:** Students may also develop skills in creative writing, including poetry, prose, and drama.
- **PSO6 Teaching Proficiency:** Preparation for teaching roles at various educational levels, from schools to universities.
- **PSO7 Proficiency in Urdu Language:** Ability to comprehend, speak, read, and write Urdu fluently across various registers and genres, including literature, media, and academic discourse.
- **PSO8 Critical Understanding of Urdu Literature:** In-depth knowledge of major literary works, movements, and figures in Urdu literature, enabling critical analysis and interpretation of literary texts.
- **PSO9 Cultural Appreciation:** A deep appreciation and understanding of Urdu-speaking cultures, traditions, and socio-historical contexts, fostering cultural sensitivity and awareness.
- **PSO10 Research and Analytical Skills:** Competence in conducting research in Urdu language and literature, including the ability to analyze texts, formulate research questions, and present findings effectively.
- **PSO11 Effective Communication:** Proficiency in communicating ideas, arguments, and analyses both orally and in writing, adhering to academic and professional standards.
- **PSO12 Interdisciplinary Perspectives:** Integration of insights from related disciplines such as linguistics, history, and comparative literature to enrich understanding and interpretation of Urdu language and literature.
- **PSO13 Digital Literacy:** Familiarity with digital tools and resources relevant to the study of Urdu language and literature, enhancing research capabilities and access to scholarly materials.
- **PSO14 Professional and Ethical Responsibility:** Awareness of ethical considerations in academic research and professional practice within the field of Urdu language and literature.
- **PSO15 Career Readiness:** Preparedness for diverse career paths including teaching, translation, journalism, publishing, cultural advocacy, and further academic pursuits in Urdu studies.

- **PSO16 Lifelong Learning:** Commitment to ongoing intellectual growth and engagement with Urdu language, literature, and associated fields through continued learning and professional development.
- These outcomes aim to prepare graduates for a range of career paths, including academia, journalism, translation, and creative writing. They also equip students with the skills necessary for further studies or doctoral programs in Urdu.

## **B. A. URDU (FYUGP) Semester-1** **MJ-1**

(History of Urdu Language)

After completing this course, the learner would be able to understand the basic concepts of Urdu language and practically use in day-to-day life for problem solving, earning, and developing human values and positive emotions:

1. Urdu ke Aghaz ke mutalliq Mukhtalif Nazariye
2. Hind Aryai zubanon ka ta'aruf
3. Sanskrit ki Hindustan mein aamad
4. Sansrit se Prakrit ka safar
5. Prakrit se Apbhransha ka safar
6. Apbhransha se Khari Boli aur Rekhta ka safar
7. Urdu Zaban ka Ibtidai daur
8. Urdu ke ibtedai zamane mein Sufiya e karam ki khidmaat.

## **Semester -2** **MJ-2**

(Urdu Dastan: Origin, Development, Art and Short History)

After completing this course, the learner would be able to understand the basic concepts of Urdu Dastan. The learner would also be able to understand:

1. Daastan ki Tareef aur Fan
2. Urdu ka Ibtidai Adab aur Dastan
3. Urdu Daastan ka aghaz aur Irteqa,
4. Urdu ki Ahm Daastaanein,
5. Bagh-o-Bahar Ka Khusoosi Motala
6. Meer Amman ka Asloob aur Adabi Maqam
7. Araish e Mahfil ka Khusoosi Motal'a
8. Haider Bakhsh Haideri ka Asloob aur Adabi Maqam

## **Semester -2** **MJ-3**

(Urdu Ghazal: Origin, Development, Art and Short History)

After completing this course, the learner would be able to understand the basic concepts, nature, types and terms of Urdu Ghazals and various Poets. The learner would also be able to understand:

1. Ghazal ki Tareef, aur Fan
2. Urdu mein Ghazal ka Ibtidai Daur
3. Urdu Ghazal ka Irteqa,
4. Urdu ke Ahm Ghaqzalgo Sho'ra,
5. Seraj Aurangabadi Ka Khusoosi Motala
6. Meer Taqi Meer Ka Khusoosi Motala
7. Ghalib Ka Khusoosi Motala
8. Momin Dehlawi Ka Khusoosi Motala

## **Semester -3**

### **MJ-4**

(Urdu Afsana: Origin, Development, Art and Short History)

After completing this course, the learner would be able to understand the basic concepts, nature, types and terms of Urdu short stories (Afsana) and various writes and their expertise. The learner would also be able to understand:

1. Afsana ki Tareef aur Fan
2. Urdu Afsane ki Ibteda aur Dastaan
3. Urdu Afsane ka aghaz aur Irteqa,
4. Urdu ke Ahm Afsana Nigar,
5. Manto ka Asloob aur Adabi Maqam
6. Bedi ka Asloob aur Adabi Maqam
7. Krishn chander ka Asloob aur Adabi Maqam
8. Qurratul Ain Haider ka Asloob aur Adabi Maqam
9. Isamat Chughtai ka Asloob aur Adabi Maqam
10. Chand Afsanon ka Tanqeedi Jaeza:

## **Semester -3**

### **MJ-5**

(Urdu Nazm Nigari: Origin, Development, Art and Short History)

After completing this course, the learner would be able to understand the basic concepts, nature, types and terms of Urdu Nazm Nigari and various Poets. The learner would also be able to understand:

1. Nazm ki Tareef, Qismein aur Fan
2. Urdu Nazm Nigari ka aghaz aur Irteqa
3. Urdu ke Ahm Nazm Nigar,
4. Nazir Akbarabadi ki Nazm Nigari aur Adabi Maqam
5. Allama Iqbal ki Nazm Nigari aur Adabi Maqam
6. Josh Malihabadi ki Nazm Nigari aur Adabi Maqam
7. Faiz Ahmad Faiz ki Nazm Nigari aur Adabi Maqam
8. Chand Nazmon ka Tanqeedi Jaeza:

## **Semester -4**

### **MJ-6**

(Urdu Novel: Origin, Development, Art and Short History)

After completing this course, the learner would be able to understand the basic concepts, origin, development, nature, types and terms of Urdu Novels and different Novel writers. The learner would also be able to understand:

1. Novel ki Tareef aur Fan
2. Urdu Novel ka Dastaan se Rishta
3. Urdu Novel ka aghaz aur Irteqa,
4. Urdu ke Ahm Novel Nigar,
5. Deputy Nazeer Ahmad ka Asloob aur Adabi Maqam
6. Mirza Hadi Ruswa ka Asloob aur Adabi Maqam
7. Premchand ka Asloob aur Adabi Maqam
8. Chand Novelon ka Tanqeedi Jaeza:



## **Semester -4**

### **MJ-7**

(Urdu Masnawi : Origin, Development, Art and Short History)

After completing this course the learner would be able to understand the basic concepts, nature, types and terms of Urdu Masnawi and various Masnawi Nigars. The learner would also be able to understand:

1. Masnawi ki Tareef, aur Fan
2. Urdu Masnawi Nigari ka aghaz aur Irteqa,
3. Urdu ke Ahm Masnawi Nigar
4. Urdu ki Ahm Masnawiyen
5. Meer Hasan ki Masnawi Nigari aur Adabi Maqam
6. Daya Shankar Naseem ki Masnawi Nigari aur Adabi Maqam
7. Jameel Mazhari ki Masnawi Nigari aur Adabi Maqam
8. Teen Masnawiyon ka Tanqeedi Jaeza:

## **Semester -4**

### **MJ-8**

(Urdu Sawaneh aur Khudnawisht Sawaneh Nigari)

After completing this course the learner would be able to understand the basic concepts, nature, types and terms of Urdu Sawaneh aur Khudnawisht Sawaneh Nigari and various Masnawi Khudnawisht Sawaneh Nigars. The learner would also be able to understand:

1. Sawaneh ki Tareef, aur Fan
2. Khudnawisht Sawaneh ki Tareef, aur Fan
3. Sawaneh aur Khudnawisht Sawaneh ka farq
4. Urdu Sawaneh Nigari ka aghaz aur Irteqa,
5. Urdu ke Ahm Sawaneh Nigar.
6. Urdu mein Khudnawisht Sawaneh Nigari
7. Urdu ke ahm Khudnawisht Sawaneh Nigar
8. Altaf Husain Hali ki Sawaneh Nigari aur Adabi Maqam
9. Syed Suleman Nadwi ki Sawaneh Nigari aur Adabi Maqam
10. Ismat Chughtai ki Khudnawisht Nigari aur Adabi Maqam
11. Qamar Azam Hashmi Ki Khudnawisht Nigari
12. Teen kitabon ka Tanqeedi Jaeza:

**THE DEPARTMENT OF PHILOSOPHY**  
**UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

Undergraduate Program-Specific Outcomes in philosophy generally mention to the specific knowledge, skills, and abilities that students are expected to acquire by the end of their academic program in philosophy. Program-Specific outcomes are designed to ensure that students achieve a well-rounded education in philosophy, covering both theoretical understanding and practical application of philosophical concepts. Undergraduate programme in philosophy aim to achieve-

**Programme Outcome**

**After completion of FYUGP Students will develop following skills:**

**PO1:** Students should be able to demonstrate a comprehensive understanding of major philosophical doctrines such as metaphysics, epistemology, logic, ethics, aesthetics and political philosophy.

**PO2:** Proficiency in understanding and analysing the works of major philosophers throughout history, ranging from classical to contemporary thinkers.

**PO3:** Ability to critically evaluate philosophical arguments, theories, and concepts through logical reasoning and rigorous analysis.

**PO4:** Ethical Reasoning: Understanding and application of ethical theories and principles to analyse moral dilemmas and ethical issues.

**PO5:** Interdisciplinary Connections: Awareness of how philosophical ideas intersect with other disciplines such as science, literature, psychology, and politics.

**PO6:** Ability to articulate complex philosophical ideas clearly and coherently through writing, including essays, research papers, and philosophical analyses.

**PO7:** Capacity to present philosophical arguments effectively in oral presentations and discussions, demonstrating clarity, organization, and persuasive ability.

**PO8:** Application of philosophical reasoning to address contemporary issues and problems, proposing reasoned solutions or insights.

**Programme Specific Outcome**

**The Philosophy Graduate students will be Capable of-**

**PSO1:** Students will demonstrate a comprehensive understanding of major philosophical doctrines and thinkers.

**PSO2:** Students will critically analyse and evaluate philosophical arguments and theories.

**PSO3:** Students will conduct philosophical research and effectively communicate their findings through oral presentations and written essays.

**PSO4:** Students will apply ethical reasoning to analyse and propose solutions to ethical dilemmas.

**PSO5:** Students will appreciate the interdisciplinary connections of philosophy with other fields of study.

**DEPARTMENT OF PHILOSOPHY**  
**UG COURSE OUTCOMES**

**Semester-1, Major 1: Indian Philosophy 1**

**Learning Goal**

Identify and describe Upanishads, Bhagavadgita and the major schools (heterodox) of Indian philosophy including Charvaka, Jainism, and Buddhism.

**Learning Outcome**

Aim to provide students with a comprehensive understanding of Indian philosophy.

**Learning Measurement**

Quizzes and Exams

Assignments

Class participation

Projects

**Semester-2, Major 2: Indian Philosophy 2**

**Learning Goal**

Identify and describe the major (orthodox) schools of Indian philosophy including Samkhya, Yoga, Nyaya, Veishesika, Mimansa and Vedanta.

**Learning Outcome**

Understand the historical and cultural contexts in which various Indian philosophical traditions developed. Analyse and interpret key philosophical texts and scripture, such as Upanishads, Bhagavadgita, and Buddhist Philosophy. Aim to provide students with a comprehensive understanding of Indian philosophy.

**Learning Measurement**

Exams

Assignments

Class participation

Projects

**Major 3: Western Philosophy (Part-1)**

**Learning Goal**

Understanding and describe major periods of western philosophy specially ancient and medieval philosophy.

**Learning Outcome**

Aim to provide students with deep and broad understanding of western philosophy equipping them with the skills to engage thoughtfully with philosophical questions and debates.

**Learning Measurement**

Exams

Assignments

Class participation

Projects

**Semester-3, Major 4: Introduction to Logic**

**Learning Goal**

Introduce students with fundamental skills in formal logic, and enabling students to critically analyse arguments, identify logical fallacies and construct sound reasoning.

**Learning Outcome**

Understand and apply basic logical concepts and terminology (propositions, statements, arguments, validity and soundness. Identify different types of arguments inductive and deductive arguments. Apply truth table and Venn diagram to evaluate logical statements and arguments. Using rules of inference and replacement to drive conclusions from premises in formal proofs.

**Learning Measurement**

Exams  
Assignments  
Class participation  
Projects

### **Major 5: Indian Logic**

#### **Learning Goal**

Understanding the historical development and fundamental principles of Indian logical traditions, particularly the Nyaya and Buddhist logic schools.

#### **Learning Outcome**

The course aim to provide students with a comprehensive understanding of Indian Logic equipped the skills of critically engage with logical arguments and applies these principles to various contexts.

#### **Learning Measurement**

Exams  
Assignments  
Class participation  
Projects

### **Semester-4\_ Major 6: Western Modern Philosophy**

#### **Learning Goal**

Identify and critically engaged with the works of key modern philosophers such as Rene Descartes, Baruch Spinoza, Gottfried Wilhelm Leibniz, David Hume, Immanuel Kant, Georg Hegel and others.

#### **Learning Outcome**

Describe and analyze the major philosophical movements of the modern period, including Rationalism, Empiricism, Idealism, and Enlightenment Philosophy. Explore and evaluate central issues in epistemology and metaphysics such as nature and scope of knowledge mind-body problem, the existence of God, and the nature of reality.

#### **Learning Measurement**

Exams  
Assignments  
Class participation  
Projects

### **Major 7: Philosophy of Religion**

#### **Learning Goal**

Basic knowledge of the beliefs and practices in the different world religions.

#### **Learning Outcome**

Ability and analyse the main issues, concepts, positions, and arguments of philosophy of religion.

#### **Learning Measurement**

Exams  
Assignments  
Class participation  
Projects

### **Major 8: Tribal Philosophy**

#### **Learning Goal**

To understand and appreciate the traditional knowledge systems, cultural practices, and world views of indigenous tribal's

#### **Learning Outcome**

Values of tribal communities.  
Cooperative social structures of tribal's.  
Holistic perspective of on life, emphasizing the interconnectedness of all beings.

#### **Learning Measurement**

Exams, Assignments, Class participation, Projects

# THE DEPARTMENT OF ECONOMICS

## UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)

The programme outcome of an economics major typically includes a blend of knowledge, skills and abilities that students are expected to achieve by the end of their studies. Below are some common outcomes:

- 1. Understanding Economic principles:** Students will gain through understanding of both Micro and Macro Economics. Theories and concepts such as demand and supply, market structure, fiscal and monetary policies, economic growth etc.
- 2. Analytical Skills:** Students will develop strong analytical skills to interpret economic data, perform statistical analysis and use econometric models to test hypothesis and forecast economic trend.
- 3. Quantitative Skills:** Students will be able to use statistical and mathematical tools to analyse economic data, develop proficiency in econometric and other quantitative methods to conduct empirical research.
- 4. Critical Thinking:** Students will enhance their ability to think critically about economic problems and policies, develop logical reasoning to address economic problems and propose viable solutions.
- 5. Research skills:** Students will gain experience in conducting economic research, designing studies, writing research papers.
- 6. Applications of Economic Theory:** Students will be able to apply economic theories and principles to a variety of fields such as business, finance, public policies, trade etc. Understand the role of government and institutions in the economy.
- 7. Interdisciplinary Integration:** Students will be able to integrate knowledge from related fields such as finance, political science, sociology, geography to enrich economic analysis.
- 8. Global awareness:** Students will be able to understand global context of economic activities and the interdependence of economies.

## UG COURSE OUTCOMES

### SEMESTER III: MAJOR PAPER-MJ4

#### INTRODUCTION TO MACRO ECONOMICS-11

1. After completing this course, will empower the students with the basic understanding of theories of output and employment, relationship between inflation and unemployment, inflation in India and relevance on Balance of Payments and exchange rate in the economy.
2. Additionally the students shall be able to understand the persisting issues of globalization, poverty and inequality.

#### MAJOR PAPER-MJ5

#### INDIAN ECONOMICS-1

On the completion of the course, students will be able to develop an understanding of the basic structure of the Indian economy. They will be also able to forecast the future course of development through their knowledge of policies and programmes set by the government and other development agencies.

## **SEMESTER-1V: MAJOR PAPER- MJ 6**

### **INDIAN ECONOMICS-11**

This course enables the students to understand the agricultural and industrial structure, their problems and contributions to the economy. At the end of the course students will be able to pinpoint and understand the past and present economic conditions of the country in various sectors.

### **MAJOR COURSE-MJ 7: BASIC STATISTICS FOR ECONOMISTS**

After completing this course, the students will be able to have a good understanding of the basic concepts of data and its measurement, univariate and bivariate analysis. Further, the students will learn preliminary data analysis & interpretation that are widely used to solve the economic and business problems.

### **MAJOR COURSE-MJ 8: ECONOMICS OF GROWTH AND DEVELOPMENT**

This course is designed to enable students to have an understanding of the basics of economics of growth and development along with theories and models and giving a direction to minds of students to take a holistic view on growth and development.

# THE UNDER GRADUATE DEPARTMENT OF GEOGRAPHY

## UG PROGRAMME OUTCOMES (FYUGP)

**PO1 - Critical Thinking:** Graduates of the Geography program will be equipped with the ability to think critically. They will be adept at analysing complex geographical issues, evaluating evidence, and making informed decisions based on a deep understanding of geographic concepts and data.

**PO2 - Effective Communication:** Students will develop strong communication skills, enabling them to convey their ideas, findings, and insights effectively through written reports, presentations, and interpersonal interactions. They will be able to communicate complex geographical information in a clear and accessible manner.

**PO3 - Social Interaction:** The program will foster social interaction skills by encouraging students to engage with diverse communities and cultures. Graduates will have an appreciation for the importance of social interactions in addressing global challenges.

**PO4 - Effective Citizenship:** Graduates will be well-prepared to be active and responsible citizens. They will understand the role of geography in addressing societal issues and be committed to contributing positively to their communities and the world.

**PO5 - Ethics:** The program will instill ethical values and awareness in students. They will be equipped to consider ethical implications related to geographical research, policies, and decision-making, promoting responsible and ethical behavior in their professional lives.

**PO6 - Environment and Sustainability:** Graduates will have a strong understanding of environmental issues and sustainability principles. They will be able to apply geographic knowledge to address environmental challenges and promote sustainable practices.

**PO7 - Self-directed and Life-long Learning:** The program will nurture self-directed learning skills, encouraging students to seek knowledge independently and adapt to evolving geographic concepts and technologies throughout their lives.

**PO8 - Initiative/Leadership:** Graduates will develop leadership skills and the ability to take initiative in addressing geographical challenges. They will be prepared to lead and inspire others to make positive contributions to society.

**PO9 - Employability:** The program will equip students with practical skills and knowledge that are highly relevant to a wide range of careers, making them competitive in the job market. Graduates will have the ability to apply their geographical expertise in various professional settings.

**PO10 - Teamwork:** Students will learn to collaborate effectively in diverse teams, reflecting the interdisciplinary nature of geography. They will be skilled in working with others to solve complex problems and achieve common goals.

**PO11 - Cross-Functional Skill Development:** Graduates will acquire a broad range of cross-functional skills, including data analysis, research methods, and geographic information systems (GIS), which are essential for success in both academic and professional settings.

**PO12 - Demonstrate Mastery in Analysis:** Graduates will be able to demonstrate mastery in analyzing geographical data and issues. They will be proficient in applying analytical techniques to solve real-world problems and contribute to the advancement of geographic knowledge.

## UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)

**PSO1** - Students will gain knowledge of physical geography, acquiring understanding of fundamental geographic concepts and a general grasp of geomorphologic and geotectonic processes and formations. This includes an in-depth analysis of landform development, crustal mobility, tectonics, and climate change.

**PSO2** – Students will correlate landforms with structure and process, establishing connections between man-environment relationships. They will explore the intersection of Geography with other social and earth sciences, easily connecting knowledge of physical geography with human geography. Students

will analyze problems in both physical and cultural environments of rural and urban areas, seeking potential solutions.

**PSO3** – Students will comprehend global economies, geopolitics, global geostrategic views, and the functioning of political systems.

**PSO4** – Students will develop a sustainable approach to the ecosystem and biosphere, aiming to conserve natural systems and maintain ecological balance.

**PSO5** – Students will integrate the physical environment, human societies, and local and/or global economic systems with the principles of sustainable development.

**PSO6** – Students will cultivate a tolerant mindset and attitude toward the vast socio-cultural diversity of India, studying contemporary concepts of social and cultural geography. They will explain and analyze the regional diversity of India through the interpretation of natural and planning regions.

**PSO7** – Students will analyze the differential patterns of human habitation on Earth, studying human settlements and population dynamics. They will understand and account for regional disparities, poverty, unemployment, and the impacts of globalization.

**PSO8** – Students will understand the history of the subject, reviewing ancient and contemporary geographical thought and its relationship with modern concepts such as empiricism, positivism, radicalism, behaviouralism, idealism, etc.

**PSO9** – Students will develop sensitization and awareness about the hazards and disasters to which the subcontinent is vulnerable, along with understanding their management.

**PSO10** – As students of the course, they will enhance their observational skills through field experience, which will be valuable in identifying future socio-environmental problems in their community.

**PSO11** – Students will receive training in practical techniques of mapping, cartography, software, interpretation of maps, photographs, and images. This includes learning how to prepare maps based on GIS using modern geographical map-making techniques.



**KARIM CITY COLLEGE, JAMSHEDPUR**  
**UG COURSE OUTCOMES(FYUGP)**

<b>Course Code</b>	<b>Semester</b>	<b>Course Title</b>	<b>Credits</b>	<b>Course Outcomes (CO)</b>
<b>MJ-1 Theory</b>	<b>I</b>	<b>Geomorphology</b>	<b>2+1=3</b>	<p><i>After completion of the course, students will be able to</i></p> <p><b>CO-1:</b> Understand the functioning of Earth systems in real-time and analyze how the natural and anthropogenic operating factors affect the development of landforms</p> <p><b>CO-2:</b> Distinguish between the mechanisms that control these processes</p> <p><b>CO-3:</b> Assess the roles of structure, stage and time in shaping the landforms, interpret geomorphological maps and apply the knowledge in geographical research.</p> <p><b>CO-4:</b> Students would be acquainting with the utility and application of Geomorphology in different regions and environment.</p> <p><b>CO-5:</b> Understand work of denudation agents and their associated landforms and know importance and need to protect them.</p>
<b>MJ-1 (P) Practical</b>	<b>I</b>	<b>Practical Geomorphology</b>	<b>1</b>	<p><i>After completion of the course, students will be able to</i></p> <p><b>CO-1:</b> Students will proficiently identify various rocks and minerals, gaining hands-on experience with samples like Iron ore, Bauxite ore, and Manganese. They will also recognize and analyze rock types such as Granite, Basalt, and Marble.</p> <p><b>CO-2:</b> Developing strong topographical map reading skills, including slope analysis, students will apply this knowledge during a field visit to mining areas, enhancing their ability to correlate theory with real-world geological features.</p> <p><b>CO-3:</b> This practical course equips students for applications in geology and related disciplines.</p>
<b>MN-IA Theory</b>	<b>I</b>	<b>Disaster Management</b>	<b>3</b>	<p><i>After completion of the course, students will be able to</i></p> <p><b>CO-1:</b> Students will grasp fundamental disaster concepts, including hazard, disaster, vulnerabilities, and risk, with proficiency in classifying diverse disasters based on their characteristics.</p> <p><b>CO-2:</b> Students will gain extensive insights</p>

				<p>into disasters prevalent in India, comprehending distribution, mapping, causes, and socio-economic impacts of floods, droughts, landslides, earthquakes, tsunamis, and cyclones.</p> <p><b>CO-3:</b> Students will analyze and comprehend manmade disasters, studying their distribution, causes, and impact, with a focus on incidents resulting from human activities and their implications on communities and the environment.</p> <p><b>CO-4:</b> Students will develop practical skills in disaster response and mitigation, understanding mitigation principles, roles of NDMA and NIDM, and applying indigenous knowledge and community-based disaster management approaches.</p>
<b>Minor-Practical</b>	<b>I</b>	<b>Practical-Disaster Management</b>	<b>1</b>	<p><i>After completion of the course, students will be able to</i></p> <p><b>CO-1:</b> Students will acquire practical knowledge on effective disaster preparedness at the individual and household levels, covering pre, during, and post-disaster scenarios for various hazards like lightning, thunderstorms, cyclones, and heatwaves.</p> <p><b>CO-2:</b> Students will develop practical skills in implementing response strategies tailored to individual or household needs during different phases of disasters, enhancing their preparedness and resilience.</p> <p><b>CO-3:</b> Students will master techniques for identifying and assessing risks associated with lightning, thunderstorms, cyclones, and heatwaves, enabling them to evaluate potential impacts and vulnerabilities.</p> <p><b>CO-4:</b> Understand practical application of Remote Sensing (RS), Geographic Information System (GIS), and Global Positioning System (GPS) in real life.</p> <p><b>CO-5:</b> Through the analysis of case studies related to the mentioned disasters, students will gain practical insights into real-world scenarios.</p>
<b>MDC-1 Theory</b>	<b>I</b>	<b>Geography: An Introduction</b>	<b>3</b>	<p><i>After completion of the course, students will be able to</i></p> <p><b>CO-1:</b> Students gain a comprehensive understanding of geography, including its definition, scope, and various approaches, with a focus on its contemporary relevance.</p> <p><b>CO-2:</b> Students explore the concept of population as a resource and engage in the population and development debate. They</p>

				<p>examine the interplay between population and ecosystems and understand the concept of demographic transition.</p> <p><b>CO-3:</b> Students can explore the need for regional planning and understand different types of regions to address spatial challenges effectively.</p> <p><b>CO-4:</b> They understand the application of Remote Sensing and GIS in diverse scenarios, such as land use mapping, urban sprawl analysis, and monitoring natural disasters for practical problem-solving.</p>
<b>MJ-2 Theory</b>	<b>II</b>	<b>Geography of Human and Cultural Landscape</b>	<b>3</b>	<p><i>After completion of the course, students will be able to</i></p> <p><b>CO-1:</b> Students will recognize the significance of human geography and its relevance to contemporary society.</p> <p><b>CO-2:</b> Students will comprehend key concepts such as determinism, possibilism, and neo-determinism in the context of human geography.</p> <p><b>CO-3:</b> Students will grasp the evolution of humanity and the distribution of race, religion, language, and culture.</p> <p><b>CO-4:</b> Students will understand population composition, growth, and distribution, along with the influencing factors.</p> <p><b>CO-5:</b> Students will explore demographic transition theory and its implications on the population-resource relationship in the current scenario.</p> <p><b>CO-6:</b> They will identify and classify rural and urban settlements based on morphology, function, and spatial patterns, and analyze global urbanization trends and driving factors.</p>
<b>MJ-2 (P) Practical</b>	<b>II</b>	<b>Statistical Methods in Human Geography</b>	<b>2</b>	<p><i>After completion of the course, students will be able to</i></p> <p><b>CO-1:</b> Students will be able to demonstrate an understanding of the significance of statistical methods in geography and the different sources of data used in geographical studies.</p> <p><b>CO-2:</b> Students will be able to apply tabulation and descriptive statistics to geographical data, including frequency distributions, deciles, quartiles, cross tabulation, measures of central tendency (mean, median, mode), centro-graphic techniques, and measures of dispersion (standard deviation, variance, and coefficient of variation).</p> <p><b>CO-3:</b> Students will be able to differentiate between purposive, random, systematic, and</p>

				<p>stratified sampling techniques and apply them to geographical data collection.</p> <p><b>CO-4:</b> Students will be able to calculate and interpret measures of association and correlation, including rank correlation, product moment correlation, and simple regression, in geographical contexts.</p> <p><b>CO-5:</b> Students will be able to critically evaluate the use of statistical methods in geographical research and appreciate their limitations.</p>
<b>MJ-3 Theory</b>	<b>II</b>	<b>Climatology</b>	<b>3</b>	<p><i>After completion of the course, students will be able to</i></p> <p><b>CO-1:</b> Students will be able to explain the fundamental concepts of climatology, including the nature and scope of the field, atmospheric composition and structure, and insolation and temperature factors.</p> <p><b>CO-2:</b> Students will be able to analyze the mechanisms of atmospheric pressure, winds, and general circulation of air.</p> <p><b>CO-3:</b> Students will be able to describe the processes of evaporation, humidity, stability and instability, air masses, and types of rain.</p> <p><b>CO-4:</b> Students will be able to classify different climatic regions using Koppen's and Thornthwaite's classification systems.</p> <p><b>CO-5:</b> Students will be able to evaluate the causes and impacts of global warming and climate change.</p>
<b>MN-2A Theory</b>	<b>II</b>	<b>Geography of Tourism and Pilgrimage</b>	<b>3</b>	<p><i>After completion of the course, students will be able to</i></p> <p><b>CO-1:</b> Students will be equipped with a basic understanding of nature and will explore trends and patterns in various types of tourism.</p> <p><b>CO-2:</b> Students have a sound knowledge of geographical, environmental, and socio-cultural aspects of tourism in India.</p> <p><b>CO-3:</b> They can apply the principles of Geo-tourism and analyze the prospects and problems associated with pilgrimage tourism.</p> <p><b>CO-4:</b> Students will develop an understanding of recent trends and patterns in tourism, including eco-tourism, sustainable tourism, and ICT in tourism.</p> <p><b>CO-5:</b> They will critically evaluate the impact of tourism on the economy, environment, and society.</p>
<b>MN-2A (Practical)</b>	<b>II</b>	<b>Practical: Geography of Tourism and</b>	<b>1</b>	<p><i>After completion of the course, students will be able to</i></p>

		<b>Pilgrimage</b>		<p><b>CO-1:</b> Students will learn about the different types of tourism in India, including domestic and international tourism, religious and cultural tourism, and leisure and adventure tourism.</p> <p><b>CO-2:</b> Students will be able to identify the major tourist destinations in India and explain their significance.</p> <p><b>CO-3:</b> Students will gain an understanding of the impact of tourism on the economy, environment, and society of India and Jharkhand.</p>
<b>MDC-1</b>	<b>II</b>	<b>Geography: An Introduction</b>	<b>3</b>	<p><i>After completion of the course, students will be able to</i></p> <p><b>CO-1:</b> Students gain a comprehensive understanding of geography, including its definition, scope, and various approaches, with a focus on its contemporary relevance.</p> <p><b>CO-2:</b> Students explore the concept of population as a resource and engage in the population and development debate. They examine the interplay between population and ecosystems and understand the concept of demographic transition.</p> <p><b>CO-3:</b> Students can explore the need for regional planning and understand different types of regions to address spatial challenges effectively.</p> <p><b>CO-4:</b> They understand the application of Remote Sensing and GIS in diverse scenarios, such as land use mapping, urban sprawl analysis, and monitoring natural disasters for practical problem-solving.</p>

# **THE UNDER GRADUATE DEPARTMENT OF HISTORY**

## **KARIM CITY COLLEGE, JAMSHEDPUR**

### **UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

#### **Objectives**

- At a general level, our courses are structured with the objective of giving requisite information about different aspects of the past to students, to teach them how to parse this information, instruct them on how historians research, frame an argument and debate details that have significance to how we understand the past and the present.
- The expected outcome is to provide students with a sense of how interconnected our present is with the past and how learning about the past provides them with the skills to understand the present.
- To facilitate this understanding, our courses, class room instruction and assignments give students the ability to think and reach their own conclusions.
- Our tutorial discussions, written assignments, class room presentations, field-work projects, consolidate their ability to analyse, research and process information.

#### **Program Specific Outcomes (PSOs)**

1. PSO1. Understand background of our religion, customs institutions, administration and so on.
2. PSO2. Understand the present existing social, political, religious and economic conditions of the people.
3. PSO3. Analyze relationship between the past and the present is lively presented in the history.
4. PSO4. Develop practical skills helpful in the study and understanding of historical events.
5. PSO5. Develop interests in the study of history and activities relating to history.
6. PSO6. History installs the feeling of patriotism in the hearts of the pupils.
7. PSO7. To provide the students with an insight to some current problems and to give an understanding of various issues relating to history.
8. PSO8. Develop an understanding of the process of conducting a research project in the field of history

# UG COURSE OUTCOMES(FYUGP)

## SEMESTER I

Paper Code: Major 1 (MJ 1)

Paper Name: The Idea of Bharat

### Course Level Learning Outcomes:

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

1. Students will acquire knowledge regarding the primitive life and cultural status of the people of Ancient India.
2. They can gather knowledge about the society, culture, religion and political history of Ancient India.
3. They will also acquire the knowledge of changing socio-cultural scenarios of India.
4. The glory of Indian Literature: Ved, Vedanga, Upanishads, Epics, Jain and Buddhist Literature, Smriti, Puranas etc.

## SEMESTER II

Paper Code: Major 2 (MJ 2)

Paper Name: World Civilizations

### Course Level Learning Outcomes:

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

1. Student will acquire knowledge about the evolution of human society, and transformation of ancient civilizations like Egyptian, Mesopotamia, Greece and Roman.
2. They can acquire knowledge about the origin, features, nature and class composition of various societies.
3. They can compare to each and other among the several societies of the world.

## SEMESTER II

Paper Code: Major 3 (MJ 3)

Paper Name: History of India (From Earliest Times to 300 BCE)

### Course Level Learning Outcomes:

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

1. Student will learn about the historiographical trends, interpretation of the historical sources of ancient India as well.
2. They can acquire knowledge about the Vedic Period and the rise of Jainism and Buddhism culture in ancient times of India
3. The paper will help the students in understanding the history of our ancestors along with the cultural transitions that happened in due course of time

## SEMESTER III

Paper Code: Major 4 (MJ 4)

Paper Name: History of India (From 300 BCE to 550 AD)

### Course Level Learning Outcomes

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

1. Students will learn about the historiographical trends, interpretation of the historical sources from 300 BCE to 550 AD.

2. They will acquire knowledge about the socio-economic, political and cultural aspects during the Mauryan Empire, Post-Mauryan Age and the Gupta Age.

### **SEMESTER III**

Paper Code: Major 5 (MJ 5)

Paper Name: History of India (From Earliest Times to 300 BCE)

#### **Course Level Learning Outcomes**

Some of the course learning outcomes that students of this course are required to demonstrate run thus:

1. Transition of the ancient societies to the modern societies was inter-spaced by an age named Medieval.
2. This age was marked with certain traits and discoveries that were instrumental in making the world modern in its applied sense.
3. Students would comprehend major features, traits and achievements of this significant age that shaped the Modern Societies.



## **THE DEPARTMENT OF POLITICAL SCIENCE**

### **UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

PSO1-This course aims to impart knowledge about the fundamentals of Political Science.

PSO2-This course is designed to familiarize the students with the basic ideas, thoughts, concepts and theories in Political Science.

PSO3-Will be able to analyse the interrelationship among the historical, political, economic, cultural and geographic dimensions in political science.

PSO4- Will apply research methods, description, analysis, interpretation, and explanation in studying the discipline.

PSO5- The objective of this course is to equip the learners to critically relate the theoretical aspects of Political Science to the socio-economic and political realities of our times, both in the national as well as in the global context.

PSO6- It intends to introduce the learners to the subject matter of the Constitution of India for a better and practical understanding of the working of the government and other institutions.

PSO7- This course aims to initiate intellectual urge among the students for understanding the most pressing political issues in terms of historical, comparative, theoretical and policy-oriented perspectives and to undertake further studies in Political Science, Public Policy, Public Administration

PSO8- The learners of Political Science can pursue Master Degree and undertake Ph. D or research activities in higher studies in subject and interdisciplinary areas.

PSO9-The learners of Political Science can pursue government and private jobs after completion of the course.

PSO10- The course of Political Science enables the learners to become ideal teachers in the concerned subject and related disciplines. The course of Political Science helps in building good citizens, good leaders for nation and helps create a healthy participative democratic society.

### **UG COURSE OUTCOMES (FYUGP)**

#### **SEMESTER 1 Major Paper 1 (MJ1) Understanding Political Theory and Politics**

##### **Course Objective:**

This course is specially designed for students of understanding of Political Science with the different meaning of Political Theory and politics. The course has been designed to introduce key concepts in politics to the students to sharpen their understanding of political discourses and the ability to make the scientific enquiry into the political phenomenon and political questions. This will help students for critical engagements with ideologies to develop their own understanding of politics. Since the state occupies a central position in the discourses on politics, the understanding of different theories on the state will allow the students to understand the role of the state in the society. The key concepts and contemporary debates like power, democracy, equality, freedom, democracy, citizenship, and justice allow the students to understand the expanding horizons of discourses in the discipline. Students will understand the media and civil society as these the drivers of the politics as they perform a communication role, important for information and ideology transmission.

<b>Course Title</b>	Understanding Political Theory and Politics
<b>Course Code</b>	MJ-1
<b>Credits</b>	4
<b>Full Marks</b>	100 – Internal 25 / ESE- 75 (Pass marks 40)
<b>Course Outcome</b>	<ul style="list-style-type: none"> <li>➤ The students will understand different approaches to Political Theory and Politics</li> <li>➤ They will learn the discourses on Political Theory, Politics and functions of Political Theory.</li> <li>➤ The students will understand the liberal and Marxist views of Politics.</li> <li>➤ They will understand the theories of Power, democracy, justice, freedom and equality</li> <li>➤ Students will be able to understand and make a distinction between nation and state.</li> <li>➤ They will come to know about different theories on nationalism.</li> <li>➤ The students would be able to answer what are social movements and make a distinction between the old and new social movements.</li> </ul>

### **SEMESTER 2 Major Paper 2 (MJ2) Indian Constitution and Politics**

**Course Objective:** The aim and objective of the course is to familiarize the students with the key elements of Indian constitution and enable them to critically assess the working of government institutions. This will help students of understanding broader framework of constitutionality and factors and forces which attempts to influence them. The course has been specially designed to know and understanding of partition subsequent integration of Princely states and how the decision on key significant symbols such as national flag, national song, national anthem, etc. of the constitution was arrived at through comprehensive debates in the Constituent Assembly.

#### **COURSE OUTCOMES:**

<b>Course Title</b>	Indian Constitution and Politics
<b>Course Code</b>	MJ-2
<b>Credits</b>	4
<b>Full Marks</b>	100 – Internal 25 / ESE- 75 (Pass marks 40)
<b>Course Outcome</b>	<ul style="list-style-type: none"> <li>➤ Students will be able to understand the terms of partition and how princely states were integrated.</li> <li>➤ They will be able to answer how princely states of Junagarh, Hyderabad, Goa, and Kashmir were integrated into India.</li> <li>➤ They will come to know the importance of the Preamble in the constitutional design of India.</li> <li>➤ They will be able to answer how constituent assembly decided about our National flag, National song, and Anthem and how debates unfolded on National language and Minority rights in the Constitution.</li> <li>➤ They will be able to answer questions pertaining to the function and role of the President, Prime Minister, Governor, Chief Minister, Parliament and State legislature, and the courts in the Constitutional design of India.</li> </ul>

## SEMESTER 2 Major Paper 3 (MJ 3) Comparative Government and Politics

**Course Objective:** This course is designed for the students to understand the functioning of governments and political systems in comparative perspectives. This course exposes the students to understand the concepts and approaches which can apply to different political regimes in terms of the origin of governmental structures and their functioning. We have different political regimes even within the broader category of democratic regimes. However, they differ from each other in many respects. This course will help the students to understand their functioning in a comparative perspective.: This course is designed for the students to understand the functioning of governments and political systems in comparative perspectives. This course exposes the students to understand the concepts and approaches which can apply to different political regimes in terms of the origin of governmental structures and their functioning. We have different political regimes even within the broader category of democratic regimes. However, they differ from each other in many respects. This course will help the students to understand their functioning in a comparative perspective.

### COURSE OUTCOMES:

<b>Course Title</b>	Comparative Government and Politics
<b>Course Code</b>	MJ-3
<b>Credits</b>	4
<b>Full Marks</b>	100 – Internal 25 / ESE- 75 (Pass marks 40)
<b>Course Outcome</b>	<ul style="list-style-type: none"><li>➤ The students will be able to understand and apply different approaches to explain the functioning of different types of governing regimes.</li><li>➤ The students will be able to compare democratic regimes and evaluate their functioning.</li><li>➤ They will be able to critically reflect on critical aspects of electoral democracy that includes functioning of parties and the relation between representation and democracy.</li><li>➤ They will be able to explain how media has changed the contours of elections and electoral democracy.</li></ul>

## SEMESTER 3: Major Paper 4 (MJ4) Ancient Indian Political Thought

**Course Objectives:** This course intends to acquaint students with the vast repository of ideas and institutions produced by ancient Indian philosophers on politics and management of statecraft. The thinking on politics and statecraft has been in all the great civilizations including India which is one of the most ancient and rich civilizations of the world. In India, academic sages and philosophers produced huge treasures of wisdom on politics, kingship, the functioning of government including the monarchy and bureaucracy, and their relationship with the people. This course has been designed to familiarize the students with key ideas of political thinkers of ancient India whose ideas have impacted the society and polity significantly. Their thoughts and legacy give insights into their ideas of India and the kind of society and polity that they had dreamed of for building a visionary India.

### COURSE OUTCOMES:

<b>Course Title</b>	Ancient Indian Political Thought
<b>Course Code</b>	MJ-4
<b>Credits</b>	4
<b>Full Marks</b>	100 – Internal 25 / ESE- 75 (Pass marks 40)
<b>Course Outcome</b>	<ul style="list-style-type: none"><li>➤ The student will come to know about the ideas of individual sages and philosophers on politics and</li></ul>

	<p>functioning of government.</p> <ul style="list-style-type: none"> <li>➤ They will be able to interlink the themes on the functioning of the Monarchy and its relationship with the people taking the cue from the ideas of individual thinkers.</li> <li>➤ Students will be able to explain the trajectory of ideas on key political questions and institutions of ancient India.</li> </ul>
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### **SEMESTER 3 Major Paper 4 (MJ4) Ancient Indian Political Thought**

**Course Objective:** This course seeks to familiarize the students with meaning, key concepts, and schools of thoughts in public administration. The module deals with the structure and functioning of the organization and seeks to develop understanding in students why do we study public administration and how to make the functioning of their working far more economic and efficient which are common goals of all the organizations. This course will allow the students to understand and examine how different schools have responded to these questions and what are their limitations. This course also provides thorough understanding of the public policy to the students. A sound public policy design, execution, monitoring and evaluation for the success of any public policy. It also explains how citizen's participation is so important for effective implementation of the public policy. Rules and Acts become redundant or ineffective in the absence of active citizenry. This course enables the students to examine some of the key public policies initiatives in India.

#### **COURSE OUTCOMES:**

<b>Course Title</b>	Ancient Indian Political Thought
<b>Course Code</b>	MJ-4
<b>Credits</b>	4
<b>Full Marks</b>	100 – Internal 25 / ESE- 75 (Pass marks 40)
<b>Course Outcome</b>	<ul style="list-style-type: none"> <li>➤ The student will come to know about the ideas of individual sages and philosophers on politics and functioning of government.</li> <li>➤ They will be able to interlink the themes on the functioning of the Monarchy and its relationship with the people taking the cue from the ideas of individual thinkers.</li> <li>➤ Students will be able to explain the trajectory of ideas on key political questions and institutions of ancient India.</li> </ul>

### **SEMESTER 3- Major Paper 5 (MJ5) Theory of Public Administration**

**Course Objective:** This course seeks to familiarize the students with meaning, key concepts, and schools of thoughts in public administration. The module deals with the structure and functioning of the organization and seeks to develop understanding in students why do we study public administration and how to make the functioning of their working far more economic and efficient which are common goals of all the organizations. This course will allow the students to understand and examine how different schools have responded to these questions and what are their limitations. This course also provides thorough understanding of the public policy to the students. A sound public policy design, execution, monitoring and evaluation for the success of any public policy. It also explains how citizen's participation is so important for effective implementation of the public policy. Rules and Acts become redundant or ineffective in the absence of active citizenry. This course enables the students to examine some of the key public policies initiatives in India.

## COURSE OUTCOMES:

<b>Course Title</b>	Theory of Public Administration
<b>Course Code</b>	MJ-5
<b>Credits</b>	4
<b>Full Marks</b>	100 – Internal 25 / ESE- 75 (Pass marks 40)
<b>Course Outcome</b>	<ul style="list-style-type: none"><li>➤ The students will be able to make a difference between the public administration and private administration.</li><li>➤ They will be able to explain the journey of discourse in public administration in the sense that how the old public administration view was contested by the idea of new public administration and subsequently the discourse moved beyond that and started talking about New Public Management and New Public Service.</li><li>➤ What is the scientific management school by Taylor and Fayol and how it was contested by the Human Relation School?</li><li>➤ They will be able to explain what is the decision-making approach of Herbert Simon.</li><li>➤ Students will be able to explain about different theories on Public Policy.</li><li>➤ They will be able to explain how to design a good public policy.</li><li>➤ They will be able to answer what is needed to ensure the successful implementation of public policy.</li><li>➤ They will be able to critically examine and answer questions pertaining to some of the key public policies in India in respect of food, sanitation, health, education, poverty, education, and environment.</li><li>➤ They will come to know how citizens can effectively participate in public policy implementation.</li></ul>

## SEMESTER 4: MAJOR PAPER 6 (MJ6) Western Political Thought 1

**Course Objective:** The purpose of this module is to introduce to the students some classical political thinkers from the West who shaped the ideas and key concepts of political Science in the Anglo-American tradition. Developing a ‘just society’ and a ‘just state’ has been a perennial question for all civilizations. But the answers are not alike. They are different across civilizations and times. This course examines the ideas of some of the prominent classical political thinkers beginning from Plato and ending with Machiavelli whose response to political questions vividly influenced political thinking. The seeds of the conceptual themes which seem to be so enriched today also found expressions in older times with different accentuation and nodes. The course seeks to trace that ideas and tradition and examine them critically.

## COURSE OUTCOMES:

<b>Course Title</b>	Western Political Thought-1
<b>Course Code</b>	MJ-6
<b>Credits</b>	4
<b>Full Marks</b>	100 – Internal 25 / ESE- 75 (Pass marks 40)
<b>Course Outcome</b>	<ul style="list-style-type: none"><li>➤ The students will know the key ideas of all the political philosophers given in the course.</li><li>➤ They will be able to explain what was the ideal state according to Plato and how was it linked to his scheme of education and theory of justice.</li><li>➤ They will be able to answer how Aristotle</li></ul>

	<p>differed from his master Plato on the conception of justice.</p> <ul style="list-style-type: none"> <li>➤ They will be able to answer how and why Machiavelli gave an overriding priority to pragmatism above ethics and values in operation of statecraft.</li> </ul>
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### **SEMESTER 4: Major Paper 7 (MJ7) Theoretical Approaches to the study of International Relations**

**Course Objective:** The field of international relations is made up of diverse actors, processes, and outcomes. The key objective of this course is to introduce the students to both the mainstream International Relations (IR) approaches such as realism (and its nexus with Classical Geopolitics), liberalism and constructivism and to critical approaches such as post colonialism and feminism. The term ‘Geopolitics’ was coined at the very end of the 19th century at the service of new forms of nationalism, colonial projects and inter- imperialist rivalry in Europe and beyond. With the complex interplay between space and power at its conceptual core, geopolitics has most often been associated with a ‘realist’ and state-centric approach to international relations. This course is also expected to act as a catalyst for students to think creatively and critically in search of ‘global’ or more ‘international’ international relations that is inclusive of non-Western experiences, traditions and interactions and critical of the western domination and euro-centric bias of mainstream IR and its neglect of the history, politics and contributions made by non-Western traditions of thought and theorizing.

#### **COURSE OUTCOMES:**

<b>Course Title</b>	Theoretical Approaches to the study of International Relations
<b>Course Code</b>	MJ-7
<b>Credits</b>	4
<b>Full Marks</b>	100 – Internal 25 / ESE- 75 (Pass marks 40)
<b>Course Outcome</b>	<ul style="list-style-type: none"> <li>➤ Familiarization with the key concepts of the discipline of IR.</li> <li>➤ Understanding of linkages between Classical Realism and Classical Geopolitics.</li> <li>➤ Comprehensive understanding of the key assumptions and arguments of the mainstream IR.</li> <li>➤ Appreciation of what is Global IR and why non-western perspectives are needed.</li> <li>➤ Greater appreciation of the important role played by non-Western countries in building post-War norms and institutions in key areas such as universal sovereignty, human rights, development and regionalism.</li> <li>➤ Understanding the agency of the Global South in these areas is key to countering IR's ethnocentrism and developing new concepts, theories, and methods.</li> </ul>

### **SEMESTER 4: Major Paper 8 (MJ8) State Politics in India**

**Course Objective:** This course deals with the politics in states in India. All the states have different social, demographic, gender, ethnic, linguistics and other variations which shape their politics. And yet, there are common issues also that influence the dynamics of political questions and the issues. There are examples wherein common social and religious variables have produced different results in different

states. Besides, different paths and factors and forces in the formation of states, they would come to know state common as well as state - specific issues enabling the students to understand why different states have the different voting pattern, political and civic culture, development patterns, working of the party system and working of the social forces.

### **COURSE OUTCOMES:**

<b>Course Title</b>	State Politics in India
<b>Course Code</b>	MJ-8
<b>Credits</b>	4
<b>Full Marks</b>	100 – Internal 25 / ESE- 75 (Pass marks 40)
<b>Course Outcome</b>	<ul style="list-style-type: none"><li>➤ The students will know how different states have been formed in India.</li><li>➤ They will know the approach to understand and explain the state politics in India.</li><li>➤ They will be able to explain what the key issues are in state politics.</li><li>➤ They will know about the state - specific issues as well as common states’ issues against the center.</li><li>➤ They will be able to explain the voting pattern and how the social and ethnic forces influence it.</li><li>➤ Students would be able to reflect on the farm crisis in India.</li></ul>

# **THE POSTGRADUATE DEPARTMENT OF PSYCHOLOGY**

## **KARIM CITY COLLEGE, JAMSHEDPUR**

### **PG PROGRAMME SPECIFIC OUTCOMES**

MA in Psychology with Specialization in Theoretical and Applied Psychology:

1. Demonstrate advanced knowledge and understanding of key theoretical frameworks and concepts in psychology, with a focus on both theoretical and applied aspects.
2. Apply critical thinking skills to analyze and evaluate psychological theories, research findings, and practical applications in various domains of psychology.
3. Demonstrate proficiency in designing and conducting research studies in psychology, including formulating research questions, selecting appropriate methodologies, collecting and analyzing data, and interpreting results.
4. Communicate effectively through written reports, presentations, and other forms of academic discourse, demonstrating the ability to convey complex psychological concepts to diverse audiences.
5. Apply psychological theories and concepts to real-world settings, demonstrating the ability to address practical issues and challenges in areas such as clinical psychology, organizational psychology, counseling, or other specialized fields.
6. Demonstrate ethical and professional conduct in psychological research, practice, and interactions with clients or research participants.
7. Collaborate effectively with colleagues, clients, and other professionals in interdisciplinary settings to address complex psychological issues and promote positive outcomes.
8. Develop and implement evidence-based interventions and strategies in applied psychology settings, demonstrating proficiency in assessment, diagnosis, treatment planning, and evaluation of outcomes.
9. Engage in continuous professional development and lifelong learning to stay abreast of current trends, research findings, and best practices in theoretical and applied psychology.
10. Contribute to the advancement of the field of psychology through research, practice, advocacy, and community engagement, with a focus on promoting psychological well-being and positive social change.

# **THE UNDER GRADUATE DEPARTMENT OF PSYCHOLOGY**

## **KARIM CITY COLLEGE, JAMSHEDPUR**

### **UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

Undergraduate Degree in Psychology typically include:

**Scientific Understanding:** Students develop a scientific understanding of psychology as a discipline, learning to quantify observations and apply this knowledge to various psychological phenomena.

**Research Skills:** They acquire research skills, including statistical methods and data analysis, which are essential for conducting psychological research.



**Biopsychology:** An understanding of the biological basis of behavior and cognition is developed, along with an appreciation for the neurobiological aspects of psychological function and dysfunction<sup>1</sup>.

**Individual Differences:** Students learn about individual differences and the importance of self-reflection and understanding oneself and others<sup>1</sup>.

**Social Psychology:** Training in social psychology prepares students to identify, understand, and change behaviors underlying social problems, with interventions and evaluations as integral parts of the curriculum<sup>1</sup>.

**Applied Psychology:** The course covers applied fields such as abnormal psychology, industrial/organizational psychology, and counseling, equipping students for careers in various sectors<sup>1</sup>.

These outcomes aim to prepare graduates for further studies or careers in academia, research, healthcare, education, social work, or any field where an understanding of human behavior is beneficial.

## **DEPARTMENT OF PSYCHOLOGY** **UG COURSE OUTCOMES(FYUGP)**

### **Semester-1**

#### **Course title: MJ 1 Foundation of Psychology**

After completing this course the student/learner would be able to understand following:

1. The nature and characteristics of Psychology.
2. Will understand the scope and different inter disciplinary fields of psychology.
3. The learner will be able to understand the different schools / approaches of Psychology.
4. The learner will be able to understand the historical development of psychology in West and in India.
5. The learner will be able to understand and apply the different Psychological concepts like Memory (types, characteristics and how to improve it), learning (different theories like: classical conditioning, operant conditioning, observational learning etc.)
6. The students will be able to understand the concept of motivation and its different types with the help of different theories.
7. The learner will be able to understand and apply the concept of emotion in psychology and its characteristics in addition the development process of emotions and determinants of emotions.
8. The students will be able to understand and the concept of intelligence and different theories intelligence. This will make students to identify different individuals and their intelligence level by administrating intelligence tests.
9. The student will able to understand and apply the nature of personality and different types of personalities. The students will be able to assess the personality of an individual.

#### **Course title: MJ 1 Lab Practical**

**After completing this course the students will be able to understand and apply the experiments:**

- I. The learner will able to understand and apply sensory motor learning with the help of mirror drawing apparatus.
- II. The learner will be able to understand the effect of knowledge of result with the help of Mulley Lyer Illusion.

- III. The learner will be able to understand and apply the concept of motivation by applying Zeigarnik effect.
- IV. The learner will be able to understand and apply the concept of sensory threshold with the help of Reiz Limen (RL).

## **Semester-2**

### **Course title: MJ 2 Foundation of Social Psychology**

#### **Credits-3**

#### Course outcome

After completing this paper the students will be able to understand and apply the followings:

- I. The learners will be able to understand the nature and characteristics of social Psychology.
- II. The learner will be able to understand and apply the different quantitative and qualitative methods of social psychology.
- III. The learner will be able to understand and solve the different Social Psychology issues like; environment intergroup conflict, health and gender issues and influence of social issues.
- IV. The learner will be able to understand social cognition and information processing: schemas, stereotypes and cognitive strategies.
- V. The learner will be able to understand the concept of self and impression formation and impression management.
- VI. The learner will be able to understand the concept of attitude and attribution.
- VII. The learner will be able to understand the concept of aggression, social violence and how to overcome it.
- VIII. The learner will be able to understand the nature and characteristics of interpersonal attraction and how to enhance and interpersonal attraction.
- IX. The learner will be able to understand collective behavior of crowd and its formation and effects.
- X. The learner will be able to understand the nature of group and formation of groups.
- XI. The learner will be able to understand the nature of leadership, qualities of a good leader and different theories of leadership.

## **Semester-2**

### **Course title: MJ-3 Statistics in Psychological Research**

#### **Credits-3**

Completing this course learner will be able to understand and apply:

- I. The learner will be able to understand the nature and characteristics of Statistics.
- II. The learner will be able to understand the scope and uses of statistics in Psychological research.
- III. The learner will be able to understand the concept of central tendency and computation of Mean, Median and Mode.
- IV. The learner will be able to understand and use of variability of quartile deviation (QD), Standard deviation (SD).
- V. The learner will be able to understand the concept of correlation, assumptions and its different types.
- VI. The learner will be able to understand the calculation of correlation by Pearson product moment method and Spearman's Rank order correlation

**Semester-2**  
**Course title: MJ-2 Practical**  
**Credits-2**

The completion of this paper will make learner able to:

- I. Measure or assess the self-esteem of the testee.
- II. Measure or assess the self-concept of the testee.
- III. Measure or assess the attitude of testee.
- IV. Measure or assess the aggression of the testee.
- V. Measure or assess the reasoning ability (aptitude) of the testee.
- VI. Measure or assess the intelligence of the testee.

**Semester-3**  
**Course title: Major Course-04 (MJ-4)**  
**Foundations of developmental Psychology**

**After completing this course the students will be able to :**

- I. Understand the key concepts of human development and issues faced in Indian societal context.
- II. Understand the different stages (Infancy, prenatal, adolescence, middle adulthood and late adulthood) and their characteristics of human development
- III. Understand the socio-cultural context of human development.
- IV. Understand the different dimensions of human development (intellectual, language, emotional, moral, social etc.)
- V. Understand how to apply the theoretical knowledge in day to day life.

**Semester-3**  
**Course title: Major Course-05 (MJ-5)**  
**Research Methodology**  
**Completion of this course will leads to following learning outcomes:**

- I. The learner will be able to understand the concept of Research and its characteristics.
- II. The learner will be able to understand the nature of different types of researches in Psychology.
- III. The learner will understand the concept of variables and their characteristics and different types in Psychological research.
- IV. The learner will understand the fundamental key concepts like Hypothesis, sampling, research designs etc.) in Psychological research.
- V. The learner will able to understand different statistical concepts like (normal distribution, central tendency, t test etc.) and their uses in Psychological research.
- VI. The learner will understand the key Properties (reliability, validity, norms etc) and their types of Psychometric tests.
- VII. The learner will understand the different steps of construction a Psychometric test.
- VIII. The learner will able to administer different types of psychometric tests in day to day life.

**Semester-3**

**Course title: Practical MJ-4 and MJ-5**

**Credits-2**

**After completing this course the learner will be able to:**

- I. Administer self report inventory on a subject and interpret the obtained score.
- II. Assess the personality of testee by using personality test.
- III. Assess the intelligence of testee by administering construction test of intelligence.
- IV. Assess the emotional intelligence of testee by administering emotional intelligence scale.
- V. Plan, designed and conduct an experiment to demonstrate any phenomenon.

# **THE DEPARTMENT OF BOTANY**

## **KARIM CITY COLLEGE, JAMSHEDPUR**

### **UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

- Students can choose the field of microbiology and plant pathology which is a branch of Agriculture.
- Uses of chemical fertilizers are harmful for health so after studying bio fertilizer part the students can develop vermicomposting and organic fertilizers.
- They can choose the field of Mushroom cultivation which comes under small scale industry.
- A knowledge about biochemistry may help the students to enter the field as professional.
- The field of Genetics is very useful branches which is a popular branch for forensic science and in hospitals geneticist.
- Specific knowledge about dendrochronology i.e. to know about scientific method of dating tree rings to the exact year they were formed.
- The paper Ethnobotany helps to know the distribution and uses of Medicinal plants of our locality, and in Jharkhand state.
- The students should enter in a course like forestry where they have knowledge about timber plant.
- The branch of environment science helps students to perform in different fields of society specially in industries to control pollution.
- Biochemical helps students to work in pharmaceutical industries.

### **UG COURSE OUTCOMES(FYUGP)**

#### **SEMESTER II – MYCOLOGY AND PHYTOPATHOLOGY**

##### **COURSE OUT COMES-:**

- Identify true fungi and demonstrate the principles and application of plant pathology in the control of plant disease.
- Develop an understanding of microbes, fungi and lichen and appreciate their.
- Identify the common plant disease according to geographical location and devise control measures.
- Understand the economic and pathological importance of fungi, bacteria and viruses.

#### **MAJOR 03 BRYOPHYTA AND PTERIDOPHYTA**

##### **COURSE OUT COMES-:**

- Demonstrate an understanding of Bryophytes and pteridophytes (Archegoniate).
- Develop critical understanding of morphology, anatomy and reproduction of Bryophytes and Pteridophytes.
- Understanding of plant evolution and their transition to land habitat.
- Demonstrate proficiency in the experimental technique and method of appropriate analysis of Bryophytes and pteridophytes.

## SEMESTER III– GYMNOSPERM AND PALAEO BOTANY

### COURSE OUT COMES-:

- Demonstrate an understanding of Gymnosperm and Palaeo botany.
- Develop critical understanding of morphology, anatomy and reproduction of Gymnosperms.
- Understanding the plant evolution and their transition to land habitat.
- Demonstrate proficiency in the experimental technique and methods of appropriate.

### MAJOR 04 PRACTICAL

### COURSE OUT COMES-:

- Training of Palaeobotanical materials of Fossil studies.
- Study of valuable alkaloid present in Gymnosperms.

## MAJOR -05 ANATOMY OF ANGIOSPERMS

### COURSE OUTCOMES-:

- Develop an understanding of concepts and fundamental of plant anatomy.
- Examine the internal anatomy of plant systems and organs.
- Develop critical understanding on the evolution of concept of organization of shoot root apex.
- Analyse the composition of different parts of plant and their relationships.
- Evaluate the adaptive and protective system of plants.

### MAJOR-05 PRACTICAL

- Study of stomata peel method and replica method.
- Training of simple microtomy.
- Staining technique.
- Study of wood ring porous; diffuse porous, tyloses, heart and sapwood.

### SEM IV

### PROGRAMME SPECIFICS OUTCOMES

#### MJ-06 FYUGP-NEP COURSE 2022-2026

### COURSE OUTCOME-:

- Recall the history of reproductive biology of angiosperms and recognize the Important of genetics and molecular aspects of flower development.
- Understand structure and functions and auther wall and pollen wall.
- Evaluate the special structure of ovule.
- Comprehend the causes of polyembryony and apomixes with its classification

### SEM IV

### PROGRAMME SPECIFICS OUTCOMES

#### MJ-07 FYUGP-NEP COURSE 2022-2026

### COURSE OUTCOME -:

**On completion of this course the students will be able to.**

- Develop understanding on chemical bonding among molecules.
- Describe the relationship between the structure and function of biomolecules.
- Classify the enzyme and explain mechanism of action and structure.

### SEM IV

### PROGRAMME SPECIFICS OUTCOMES

#### MJ-08 FYUGP-NEP COURSE 2022-2026

### COURSE OUTCOME-:

- Identify the various types of cell chemical composition, structure of cell Wall and cell membrane.
- To know about the cell organelles of the plant along with function.
- Compare the structure and function of cells and explain the development of cells.
- To know about the Mitosis and Meiosis and role of protein.

# THE POSTGRADUATE DEPARTMENT OF CHEMISTRY

## KARIM CITY COLLEGE, JAMSHEDPUR

### PG PROGRAMME SPECIFIC OUTCOMES

- To encourage students to fix their feet and bright their carrier in the fields of science and technology for sustainable future and solve the emerging opportunities and challenges.
- To encourage our budding scientist in the field of chemical research for human well beings.
- To encourage and motivate the students to understand the chemistry in our daily life.
- To inspire students to follow the principles of green chemistry which provides guideline for the exploration of nature without disturbing equilibrium of the nature.
- We help the students to understand theoretical chemistry by its practical applications in which traditional and modern apparatus are used.
- To create awareness and understanding of various critical perspectives and environmental challenges.
- To encourage students to adopt comparative understanding with mathematical, biological and social sciences.
- To understand the diversity of the subject in the different fields.
- To encourage the student towards creativity and generates scientific attitude.

### Course outcomes for M. Sc Chemistry

Sl. No	Semester	Paper	Expected outcomes
01	1	Analytical Chemistry (CC-1)	<ul style="list-style-type: none"><li>● After completing the course, students will able to analyze the data obtained from different instruments based on different based on various analytical concept</li><li>● Student will learn to quantify analytes with proper data handling and analysis..</li><li>● Students will also improve knowledge over industrial important chromatography and spectroscopy experiments.</li></ul>
		Inorganic Chemistry (CC-2)	<ul style="list-style-type: none"><li>● After completing the course students will gain understanding the physical and chemical properties of transition metal complexes, and metal pi- complexes.</li><li>● Practical component will develop experimental skills of the students and they will learn how to interpret data obtained from a range of physical techniques to characterize inorganic compounds.</li></ul>
		Organic Chemistry (CC-3)	<ul style="list-style-type: none"><li>● At the end of the course, students will gain understanding of Nature of Bonding in organic Molecules and reaction mechanism, Reaction Mechanism- Structure and Reactivity, Aliphatic Nucleophilic Substitution, Aromatic Nucleophilic substitution, Aliphatic and aromatic Electrophilic substitution.</li><li>● Practical component will develop experimental skills of the students and they will learn how to interpret data obtained from a range of physical techniques to characterize inorganic compounds</li></ul>

01	1	Physical Chemistry (CC-4)	<p>1. Quantum Chemistry:</p> <ul style="list-style-type: none"> <li>At the end of the course, the learners should be able to analyze Introduction to Exact Quantum Mechanical Results, Angular Momentum, Electronic Structure of Atoms and Molecular Orbital Theory</li> </ul> <p>2. Thermodynamics:</p> <ul style="list-style-type: none"> <li>After completing the course, the learners should be able to analyze Classical Thermodynamics, Statistics Thermodynamics and Chemical Dynamics.</li> <li>Students will also improve skills to present practical report and awareness of health and safety procedures.</li> </ul>
02	2	Spectroscopy (CC-6)	<p>1. Vibrational Spectroscopy:</p> <ul style="list-style-type: none"> <li>At the end of the course, the students should be able to apply their knowledge of Infrared Spectroscopy, Raman Spectroscopy.</li> </ul> <p>2. Electronic Spectroscopy:</p> <ul style="list-style-type: none"> <li>After completing the course, the learners should be able to analyze of Atomic Spectroscopy, Molecular Spectroscopy, Nuclear Magnetic Resonance Spectroscopy, Electron Spin Resonance Spectroscopy and X – ray Diffractions.</li> <li>Students will be able to interpret the given spectroscopic data of unknown compounds.</li> <li>Practical component will develop experimental skills of the students and they will learn how to interpret data obtained from a range of physical techniques to characterize in organic compounds.</li> </ul>
		Group Theory and Bioinorganic (CC-7)	<ul style="list-style-type: none"> <li>The Students will be able to know about metals ions in biological system ,bioenergetics , transport and storage of dioxygen ,electron transfer and bio-chemistry of non metals .</li> <li>After studying this course students will be able to apply internal direct product theorem in simple cases.decide whether a given group is cyclic and a finite cyclic grup.</li> </ul>
		Organic Chemistry (CC-8)	<ul style="list-style-type: none"> <li>At the end of the course students will gain understanding of stereochemistry, reaction mechanism and kinetics , pericycle reaction .</li> </ul>
02	2	Physical Chemistry (CC-9)	<ul style="list-style-type: none"> <li>The students will be able to demonstrate and understanding of adsorption electrochemistry ,magneto chemistry and its properties .</li> </ul>
		Application of spectroscopy (CC-11)	<ul style="list-style-type: none"> <li>At the end of the course the students should be able to apply their knowledge of different spectroscopic techniques in solving structure of organic molecules and in determination of their stereochemistry.</li> <li>Students will be able to interpret the given spectroscopic data of unknown compounds and in their future research</li> </ul>
		Industrial chemistry (CC -12)	<ul style="list-style-type: none"> <li>After completion of the course students would be able to understand the effect of human activities on the environmental health.</li> <li>Major outcomes could be that the students get involve in altering indusrtial practices so that the end result is a more</li> </ul>



03	3		environment friendly product.
		Organic chemistry special (DSE-1)	<ul style="list-style-type: none"> <li>• After completion of the course the students will be able to plan a synthetic reaction, name the product elucidate the mechanism of a particular reaction.</li> <li>• Students will get a comprehensive account of natural products (alkaloids, terpenoids and carotenoids and steroids).</li> </ul>
		Inorganic chemistry special (DSE-1)	<ul style="list-style-type: none"> <li>• After completion of the course students will be able to understanding of alkyl and aryl of transition elements, compounds of transition metal-carbon multiple bond, metal pi-complex, homogenous catalysis, fluxional organometallic compounds and electronic structure of inorganic clusters.</li> </ul>
04	4	Pharmaceutical and Bio Organic (CC – 13)	<ul style="list-style-type: none"> <li>• After completion of the course students will be able to understanding of Drug, Enzymes and Mechanism of Enzyme Action, Kinds of Reactions Catalysed by Enzymes, Co-Enzyme Chemistry, Biotechnological Applications of Enzymes.</li> </ul>
		Environmental Science and Green Chemistry (CC – 14)	<ul style="list-style-type: none"> <li>• At the end of the course the students should be able to apply their knowledge of Environment, Hydrosphere, Atmosphere, Soil, Green Chemistry Definition and Objective, Real Applications.</li> </ul>
		Inorganic Chemistry Special Paper (DSE – 3)	<ul style="list-style-type: none"> <li>• After completion of the course students will be able to understanding of Metal storage transport and Biomineralization, Calcium in biology, Metalloenzymes, metal-Nucleic Acid Interactions, metal in Medicine, Supramolecular Chemistry.</li> </ul>
		Organic Chemistry Special Paper (DSE – 3)	<ul style="list-style-type: none"> <li>• After completion of the course students will be able to understanding of Six-membered Heterocycles with one heteroatom, Six-membered heterocycles with Two or More Heteroatoms, structure determination and synthesis of Vit, A, B, B<sub>1</sub>, B<sub>2</sub>, B<sub>6</sub>, Vit. C and Vit. D, steric and conformational properties, Nucleophilic and electrophilic reactivity, supermolecular Chemistry, Rearrangement Reactions.</li> </ul>
		Practical & Project Work	<ul style="list-style-type: none"> <li>• At the end of the course the students should be able to apply their knowledge of Project work on different and various Project Topics.</li> </ul>

## Programme Specific Outcome UG Chemistry

- To encourage students to fix their feet and bright their carrier in the fields of science and technology for sustainable future and solve the emerging opportunities and challenges.
- To encourage our budding scientist in the field of chemical research for human well beings.
- To encourage and motivate the students to understand the chemistry in our daily life.
- To inspire students to follow the principles of green chemistry which provides guideline for the exploration of nature without disturbing equilibrium of the nature.
- We help the students to understand theoretical chemistry by its practical applications in which traditional and modern apparatus are used.
- To create awareness and understanding of various critical perspectives and environmental challenges.
- To encourage students to adopt comparative understanding with mathematical, biological and social sciences.
- To understand the diversity of the subject in the different fields.
- To encourage the student towards creativity and generates scientific attitude.

### **Course outcomes for UG (FYUGP) Under (NEP).**

Sl. No	Semester	Paper	Expected outcomes
01	1	Inorganic chemistry-1 (MJ-1)	<ul style="list-style-type: none"><li>● To describe atomic theory and its evaluation.</li><li>● To explain physical and chemical properties of the elements in P.T and Periodicity.</li><li>● To describe bond interaction between atoms and molecules in the aggregation.</li><li>● To describe Hybridisation and shape of atomic orbitals.</li><li>● To explain bond parameter, bond distance and bond energy.</li></ul>

02	2	Organic chemistry-1 (MJ-2)	<ul style="list-style-type: none"> <li>● To understand the basic of organic molecules, structure, bonding, reactivity and reaction mechanism.</li> <li>● To explain the stereochemistry of organic molecules.</li> <li>● To describe aromatic compound and aromaticity, mechanism of aromatic reaction.</li> <li>● To explain the organic reaction mechanism and pathways.</li> </ul>
		Physical chemistry (MJ-3)	<ul style="list-style-type: none"> <li>● To explain the familiarization with various state of matter.</li> <li>● To understanding kinetic model of gas and its properties.</li> <li>● To explain ionic equilibria-electrolyte , ionization and dissociation.</li> </ul>
<b>Sl. No</b>	<b>Semester</b>	<b>Paper</b>	<b>Expected outcomes</b>
03	3	Inorganic chemistry-2 (MJ-4)	<ul style="list-style-type: none"> <li>● To understand oxidation-reduction and their use in metallurgy.</li> <li>● To describe chemistry of s and p block elements.</li> <li>● To explain inorganic polymers and their uses.</li> <li>● To describe chemistry of Nobel gases and their compound.</li> </ul>
		Organic chemistry-2 (MJ-5)	<ul style="list-style-type: none"> <li>● To understand the basic uses of reaction mechanism.</li> <li>● To explain the name reactions uses of various reagent and the mechanism of their action.</li> <li>● To describe organometallic compounds and their uses.</li> <li>● To understand the use of reagent in various organic transformation reactions.</li> </ul>

# **THE POSTGRADUATE DEPARTMENT OF MATHEMATICS**

## **KARIM CITY COLLEGE, JAMSHEDPUR**

### **PG MATHEMATICS PROGRAMME SPECIFIC OUTCOMES**

After completing the course, a student will have in-depth knowledge of branches of mathematics dealt in the class. He will have complete idea of conventions such as notations, terminology. He will get adequate exposure to global and local concerns that explore them many aspects of mathematical sciences. He will be able to apply their skills and knowledge that is translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.

In this program a student will develop a positive attitude towards mathematics as an interesting and valuable subject of study

- He will think in a critical manner as a student of mathematics.
- With suitable tools of mathematical analysis, a student will be able to handle issues and problems in mathematics and related sciences.
- He will acquire good knowledge and understanding to solve specific theoretical and applied problems in advanced areas of mathematics and statistics.
- He will gain sufficient knowledge and skills enabling them to undertake further studies in mathematics and its allied areas on multiple disciplines concerned with mathematics.
- He will develop a range of generic skills helpful in employment, internships and social activities.
- He will be able to undertake research works in the field of mathematics and related field and successfully complete his research.

### **PG COURSE OUTCOMES**

#### **M.Sc. (Mathematics)**

#### **CC-101**

The study of this course aims at instilling in students the knowledge and understanding of the following:

A1: Unit 1- Real Analysis

- definition and the concept of sequence and series of the function
- concept of uniform convergence of sequence and series of real application

- proving the theorems of uniform convergence and its application
- the concept of continuity and term by term integration and differentiation

## A2: Fourier Series

- the fourier series and the convergence of trigonometric fourier series
- Bessel s inequality
- proving the different theorems and its application

### **CC-102: Complex Analysis**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- proving the different theorems of complex analysis and fundamental theorem of Algebra
- broader approach of power series and proving related theorems
- residue and poles and its theorems and problems

### **CC-103: Topology**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- the compactness in Metric Space
- a comprehensive lecture on topological space and its application
- separation of T1-Space, T2-Space
- connectedness and its application

## **Semester- 2**

### **CC-204: Group Theory**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Isomorphism and proving its related theorems
- permutation group and its related topics
- the conjugacy classes of a finite group

### **CC-205: Differential Geometry**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- space curve and proving Serret-Frenet formulas
- curvilinear Co-ordinator
- parametric curve and different theorems and its applications
- Geodesics

### **CC-206: Analytical Dynamics**

After completing Analytical Dynamics, the students know about the motion of a particle analytically.

- motion in two dimensions
- moving axes and velocity and acceleration of a particle in two dimensional motion
- different theorems on equation of motion
- Lagarange s Equation of motion of small oscillation

## **Semester-3**

### **CC-307: Discrete Mathematics**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- partially ordered set and lattices
- logic and its application
- Graph Theory
- pigeon hole principle

### **CC-308: Functional Analysis**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- different inequalities
- continuous linear mappings
- Hahn-Banach Theorem
- Hilbert space and its applications

### **EC- 302A: Computational Technology and Fortran**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- numerical computing and its concept
- flow chart and programming techniques
- the language FORTRAN and its application
- different types of problems based on Matrix

### **CC309: Differential Equation**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Laplace transform and its application
- Fourier Sin and Cosine series and its inverse and its application
- the series solution of general homogenous linear second order equation and its singular points
- linear system and its application

### **EC-303A: Operations Research**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- known demand, probabilistic demand etc.
- project planning and its applications
- concept of Game Theory and its applications
- concept of Branch and Bound techniques

### **EC-303B: Difference Equation**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- dynamics of 1<sup>st</sup> order difference equation and its application
- its equilibrium points
- linear differences Equation of higher order and its application

## **Semester - 4**

### **CC- 409: Ring and Field**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Integral Domain, Ring and Fields and proving relaxed theorems and their applications

### **EC-404A: Integral Transform**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Stieltjes transform
- the Laplace-Stieltjes theorem and proving it
- different theorems and their proves and applications
- the problems of Laplace transform

### **EC- 404B: Boundary Layer Theory**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- derivation of Navier-Stokes equation, Viscosity and its limiting cases
- boundary layer concept and its applications
- the momentum equation and its applications

### **EC- 405A: Partial Differential Equation**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- classification of second order partial differential Equation
- Fourier Sin and Cosine and its Inverse transform
- wave equation and its problems
- integral transforms and Green s function and its application

### **EC-405B: Tensor Calculus**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- different types of tensors
- the differentiation of different tensors

### **CCMATH101: Real Analysis & Matrices**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- The concept of limit of sequence, monotonic sequence and testing for convergence of a sequence.
- Testing convergence of series with the help of different tests.
- Identifying symmetric, Skew Symmetric, Hermitian and skew Hermitian Matrices & explaining the concept of elementary operations on matrices.
- Defining different ranks. Eigenvalues, eigenvectors of a matrix and solving linear equations.

### **CCMATH102: Differential calculus and Analytical Geometry of Two Dimensions**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- $n^{\text{th}}$  derivative, Partial Derivative & expansion of function.
- Equation of Tangent, Normal & Asymptotes by use of Calculus.
- Identifying the conic sections by analysing a given equation.
- Tangent, normal & Director circle of conic section.
- Solving problems on conic section in polar equation.

### **CCMATH203: Integral calculus and Analytical Geometry of Three Dimensions**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Methods of Integration.
- Evaluating double and triple integrals.
- The volume and surface area of solids of revolution.
- Equation of Planes, Straight lines, Spheres, Cone & cylinder.

### **CCMATH204: Trigonometry, Vector Algebra & Vector Differentiation**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Application of De-Moivre's theorem, Hyperbolic Function & to find the logarithm of complex quantity.
- Application of Gregory series & factorisation of trigonometric function.
- Concept of product of two or more vectors.
- Concept of vector functions & its derivatives.

### **UG PROGRAMME SPECIFIC OUTCOMES**

After completing the course, a student will be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology. He will get adequate exposure to global and local concerns that explore them many aspects of mathematical sciences. He will be able to apply their skills and knowledge that is translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.

In this program a student will develop a positive attitude towards mathematics as an interesting and valuable subject of study

- He will think in a critical manner.
- With suitable tools of mathematical analysis, a student will be able to handle issues and problems in mathematics and related sciences.
- He will acquire good knowledge and understanding to solve specific theoretical and applied problems in advanced areas of mathematics and statistics.
- He will gain sufficient knowledge and skills enabling them to undertake further studies in mathematics and its allied areas on multiple disciplines concerned with mathematics.
- He will develop a range of generic skills helpful in employment, internships and social activities.



## **UG COURSE OUTCOMES (CBCS)**

### **CCMATH305: Analysis I & Differential Equation**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- The concept of limit and continuity.
- Derivability, continuity and Mean Value Theorems.
- Riemann Integration.
- Uses of Integrability condition.
- Methods of solving first order higher degree differential equation, linear Equation with constant coefficient & second order linear equations.

### **CCMATH306: Complex Analysis & mechanics**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Concept of limit, continuity & differentiability of function of two variables.
- Analytic function, transformations and conformal mappings in complex analysis.
- Concepts in equilibrium of coplanar forces & laws of friction.
- Concept of radial, transverse, tangential, normal velocities and accelerations.
- Motion of particle in SHM, law of conservation of energy and law of elasticity.

### **CCMATH307: Set theory and Theory of Equation**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Generalised concepts of set algebra, set mapping.
- Concept of denumerable, countable and uncountable sets.
- Concept of partial order relation and lattices.
- Polynomial equation & properties of roots.
- Different methods of solving polynomial equations.

### **CCMATH408: Higher Arithmetic and Group Theory**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Residue class and system and their properties, Fermat's, Euler's and Wilson's theorems.
- Solution of Congruence equations, Chinese remainder theorem.
- Non-Linear algebraic congruency with respect to the modules.
- Definitions of group and subgroups, cyclic group, coset.
- Lagrange's Theorem and its application.
- Homomorphism and Isomorphism & their properties.
- Permutation groups and Cayley's Theorem.

### **CCMATH409: Fluid Mechanics and Special functions**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Concept of fluid pressure, centre pressure, thrust on plane and curved surfaces.
- Analyse fluid flow by Lagrangian and Eulerian methods.
- Euler's equation of motion, Bernoulli's Theorem.
- Series solution of ordinary differential equations.
- Derivation & properties of Bessel's equation.
- Derivation & properties of Legendre equation.
- Different hypergeometric functions and its properties.

### **CCMATH410: Linear Programming and statistics**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Idea of convex sets in  $R^2$ , their properties and how to formulate & solve L.P.P., Transportation and Assignment problems.
- Concept of deterministic replacement models, sequencing problems on two machines and  $n$  jobs.
- The concept of skewness and kurtosis.
- Fitting a curve by method of least square, concept of correlation, regression and their expectations and variance.

### **CCMATH511: Statics & Dynamics**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Concept of wrench, pitch, null lines.
- Use of concept of virtual work in mechanics.
- Common Catenary and its problems.
- Concept of central orbits, Newton's law of gravitation, Kepler's law of planetary motion.
- Projectile & its problems.
- Concept & application of D'Alembert's principle.

### **CCMATH512: Analysis II & Abstract Algebra**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Convergence of improper integral and different test.
- Multiple integrals via Dirichlet's theorem, Liouville's extension.
- Vector integration and Stoke's theorem, Gauss divergence theorem.
- Ring and related theorem and problems.
- Integral Domain, Field, Ideal & their properties.
- Theorems on isomorphism.

### **DSEMATH501A: Discrete Mathematics & Metric Space**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Set propositions & Concept of principle pigeonhole principle.
- Partial Order Relation Lattice.
- Concept of graph, tree, path & circuit.
- About Boolean algebra, Boolean lattices & Boolean functions.
- Concept of Metric Space, Open sets & closed sets in a metric space.
- Convergence of sequence & Completeness of metric space.
- Mapping, Continuity, Uniform Continuity and extensions.

### **DSEMATH501B: Programming in C & Numerical Analysis**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Idea about Programmer's model of a computer.
- Construction of flow chart, Decision statements, operators.
- Knowledge of array, string, pointers & file formatting.
- About numerical methods of solving algebraic & transcendental equations.
- Numerical method of finding derivatives & integration.
- Numerical method of solving ordinary differential equations.

### **DSEMATH502A: Tensor & Fourier Transform**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Concept of Tensor. Kronecker delta, Product of tensors.
- Christoffel's symbol, Transformation of symbol Divergence & Curl.
- Concept of Fourier transform, infinite sine & cosine Fourier transform.
- Concept of finite Fourier transform and integrals.

## **DSEMATH502B: Mathematical Modeling & Topology**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Different types of Mathematical models. Population growth and age structure.
- concept of Higher order linear models.
- Applications of mathematical models
- Concept of algebraic Topology, Open sets & closed sets
- Convergence of sequences, Cauchy sequence in topological spaces.
- Mapping, Uniform continuity & extensions.

## **CCMATH613: Linear Algebra & Linear Difference equations.**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Concept of Vector Space, Linear dependence & independence, basis.
- Inner product, Normed space, & orthogonalisation of vectors.
- Linear transformation, Eigen values & Vectors.
- Concept of difference equation & its solution.
- Different methods of solving difference equation.

## **CCMATH614: Differential Equations**

- Concept of partial differential equations, formation & solution.
- Solution of non-linear equation of first order & homogeneous linear differential equation.
- Method of solving partial differential equations by Charpit & Monge.
- One-dimension wave equation & heat equation.
- Concept Integral Transform. Laplace, Inverse Laplace transform & their application.

## **DSEMATH603A: Number Theory & Probability**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Idea of perfect number, Fermat number, F- Number, Mersenne number etc.
- concept of Higher order linear models.
- Sum & difference of two squares.
- Arithmetic functions.
- Concept of probability, Random variables, Distribution function.
- Discrete & continuous distributions & their properties.

## **DSEMATH603A: Life History & Contributions of Eminent Mathematicians**

The study of this course aims at instilling in students the knowledge and understanding of the following:

- Know about life history & contributions of eminent mathematicians.

## **UG COURSE OUTCOMES(FYUGP)**

### **Semester-1**

Course Code: <b>MJ-1</b>	Course Title: <b>Calculus</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) Apply the rules of differentiation, including the chain rule, to compute derivatives of functions. Also, able to apply different mean value theorems, such as Rolle's theorem and Lagrange's mean value theorem, to establish results about the behavior of differentiable functions.
- b) Approximate functions using Maclaurin's and Taylor's series, analyze the error of these approximations using Taylor's theorem with Lagrange, Cauchy, and Roche-Schlomilch forms of remainder, and use these results to find extrema of functions.
- c) Define and compute the curvature of a curve at a given point, and understand its geometric significance

and identify the different types of asymptotes of general algebraic curves, including parallel asymptotes, asymptotes parallel to axes, and slant asymptotes.

- d) Trace Cartesian, polar, and parametric curves and identify their key features, as well as use calculus techniques to analyze the behavior of curves and solve real-world problems that involve curve tracing.
- e) Derive and apply reduction formulae, parameterize curves, and compute arc length, area of bounded curves, volume, and surface area of surfaces of revolution.

## Semester-2

Course Code: <b>MJ-2</b>	Course Title: <b>Matrices</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) Understand and apply fundamental concepts in number theory, including well ordering property, division algorithm, congruence relations, mathematical Induction, and the fundamental theorem of arithmetic.
- b) Gain a thorough understanding of matrices, including types of matrices, determinants, operations, invertibility, matrix rank, normal forms, and the rank-nullity theorem
- c) Gain a strong grasp of systems of linear equations, including their matrix form, augmented matrices, consistency (both necessary and sufficient conditions), and methods for solving homogeneous and non-homogeneous linear equations.
- d) Find eigenvalues and corresponding eigenvectors for a square matrix.

Course Code: <b>MJ-3</b>	Course Title: <b>Analytic Geometry and Trigonometry</b>
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- a) Develop skills in two-dimensional analytical geometry, including transformations of rectangular axes, reduction of general equations to normal form, analysis of conic systems, and understanding the polar equation of conics.
- b) Gain proficiency in three-dimensional analytical geometry, including the concepts of direction cosines, straight lines, planes, spheres, intersecting spheres, spheres passing through a given circle, cones, and cylinders.
- c) Gain the ability to analyze and classify conicoids, understand their plane sections, determine generating lines, reduce equations to normal form, and classify quadrics.
- d) Develop concepts in trigonometry, including the polar form of complex numbers, DeMoivre's theorem, and its applications in trigonometric function expansions.
- e) Develop proficiency in working with hyperbolic and exponential functions, understanding their properties and applications.

## Semester-3

Course Code: <b>MJ-4</b>	Course Title: <b>Real Analysis</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) Understand many properties of the real line  $\mathbb{R}$  and learn to define sequence in terms of functions from  $\mathbb{R}$  to a subset of  $\mathbb{R}$ .
- b) Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate their limit superior, limit inferior, and the limit of a bounded sequence.
- c) Apply the ratio, root, alternating series and limit comparison tests for convergence and absolute convergence of an infinite series of real numbers.
- d) Learn some of the properties of Riemann integrable functions, and the applications of the fundamental theorems of integration.

Course Code: <b>MJ-5</b>	Course Title: <b>Vectors</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) Understand the concepts of scalar & vector products of three and four vectors.
- b) Understand the concept of vector function of scalar variable  $t$ , Scalar point functions, vector point functions, Grad, Curl and Divergence.
- c) Inter-relationship amongst the line integral, double and triple integral formulations
- d) Realize importance of Green, Gauss and Stokes' theorems in other branches of mathematics.

## Semester-4

Course Code: <b>MJ-6</b>	Course Title: <b>Real Analysis &amp; Set theory</b>
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**Course Learning Outcomes:** This course will enable the students to:

- Understand the concept of limit & continuity of a function.
- Understand the concept of differentiation and expansion of function with remainder.
- Understand the definition and condition for Riemann Integrability.
- Understand the generalized set operations and relation on sets.

Course Code: <b>MJ-7</b>	Course Title: <b>Ordinary Differential Equation</b>
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**Course Learning Outcomes:** This course will enable the students to:

- solve ordinary differential equation of first order and understand its physical significance.
- solve higher order differential equation using concept of complimentary function & particular integral.
- solve ordinary differential equation with variable coefficients.
- solve simultaneous & total differential equation and understand its geometrical significance.

Course Code: <b>MJ-8</b>	Course Title: <b>Group Theory</b>
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**Course Learning Outcomes:** This course will enable the students to:

- Understand concept of groups & their properties.
- Understand the concept of subgroups and cyclic groups.
- Understand the concept of Factor group, centralizer and normalizer of group.
- Understand the concept of Homomorphism in Group & Isomorphism and related properties.

## Semester-5

Course Code: <b>MJ-9</b>	Course Title: <b>Mechanics</b>
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**Course Learning Outcomes:** This course will enable the students to:

- Understand necessary conditions for the equilibrium of particles acted upon by various forces and learn the principle of virtual work for a system of coplanar forces acting on a rigid body.
- Understand the concept of friction and laws of friction. Student will be able to solve problems related to friction.
- Deal with the kinematics of the rectilinear and planar motions of a particle including the constrained oscillatory motions of particles.
- Understand concept work and energy and related laws.

Course Code: <b>MJ-10</b>	Course Title: <b>Theory of Equation &amp; Higher Arithmetic</b>
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**Course Learning Outcomes:** This course will enable the students to:

- solve polynomial equation using relation of roots and coefficients
- solve cubic equation by Cardon's method.
- understand the concept of congruences and their properties.
- solve simultaneous linear congruences.

Course Code: <b>MJ-11</b>	Course Title: <b>Complex Analysis</b>
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**Course Learning Outcomes:** This course will enable the students to:

- apply the concept of continuity & differentiability of function of two variables.
- apply the concept of analytic function & form analytic function.
- understand standard transformations.
- understand the concept of conformal mapping.

## Semester-6

Course Code: <b>MJ-12</b>	Course Title: <b>Dynamics &amp; Statics</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) apply the condition for equilibrium in problems.
- b) solve problems related to common catenary.
- c) solve problems related to gravitation % Newton's laws of motion.
- d) solve problems related to projectile.

Course Code: <b>MJ-13</b>	Course Title: <b>LPP &amp; Statistics</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) solve problems related to linear programming problems.
- b) solve problems related to transportation & assignment problems.
- c) study the nature of curve, fit a suitable curve for bivariate data.
- d) study correlation and do regression analysis.

Course Code: <b>MJ-14</b>	Course Title: <b>Analysis II &amp; Ring</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) test the convergence of improper integral.
- b) solve multiple integrals using theorems like Green's theorem, Stokes theorem.
- c) understand the concept of ring and Ideals.
- d) explain the concept of field & homeomorphism.

Course Code: <b>MJ-15</b>	Course Title: <b>Numerical Analysis &amp; Programming in C</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) find roots of equation and interpolate by numerical methods.
- b) differentiate % integrate by numerical methods.
- c) know about the logics and algorithms needed for computer programming.

## Semester-7

Course Code: <b>MJ-16</b>	Course Title: <b>Fluid Mechanics &amp; Special Function</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) understand the nature of fluid, its pressure and centre of pressure.
- b) explain the fluid motion using equation of continuity and Bernoulli's theorem.
- c) find series solution of differential equations about ordinary and singular points.
- d) understand the properties of Legendre polynomials and properties of Hypergeometric functions.

Course Code: <b>MJ-17</b>	Course Title: <b>Metric space &amp; Discrete Mathematics</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) Develop the concept of metric space and related properties.
- b) Learn the idea of completeness of a space with its properties.
- c) Learn the idea of continuous and uniform continuous functions.
- d) Learn the concept of cardinality & mathematical induction.
- e) understand the concept of graph and lattices.

Course Code: <b>MJ-18</b>	Course Title: <b>Integral Transform</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) learn concept of Laplace and inverse Laplace transform.
- b) solve the differential equation using Laplace transform.
- c) learn the concept and properties of Fourier transform.
- d) learn application of Fourier sine & cosine transform.

Course Code: <b>MJ-19</b>	Course Title: <b>Partial Differentiation</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) apply a range of techniques to solve first & second order partial differential equations.
- b) apply Monge's method to solve non-linear equation of second order.
- c) model physical phenomena using partial differential equations such as the heat and wave equations.

## Semester-8

Course Code: <b>MJ-20</b>	Course Title: <b>Linear Algebra &amp; Linear Difference equation</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) understand concept of basis of vector spaces and construct orthonormal basis.
- b) understand the concept of rank & nullity.
- c) construct difference equations and find its general solutions.
- d) find solution of linear difference equations and homogeneous difference equations.

Course Code: <b>AMJ-1</b>	Course Title: <b>Topology</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) learn about the concept of compactness in metric space.
- b) define topological space its bases and different types spaces.
- c) learn different types of compactness in topological spaces.
- d) learn different types separation axioms in topological spaces and also the connectedness of topological spaces

Course Code: <b>AMJ-2</b>	Course Title: <b>Complex Analysis II</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) apply complex integration in solving problems.
- b) learn about power series expansion and their convergence.
- c) apply method of contour integration.
- d) learn about conformal mapping.

Course Code: <b>AMJ-3</b>	Course Title: <b>Real Analysis &amp; Measure Theory</b>
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**Course Learning Outcomes:** This course will enable the students to:

- a) learn the concept of uniform convergence in sequence & series of functions.
- b) learn about Fourier series and its applications.
- c) learn the concept of measure theory and its properties.
- d) know about the measurable functions & its properties.

**THE DEPARTMENT OF PHYSICS**  
**KARIM CITY COLLEGE, JAMSHEDPUR**  
**UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

**B.Sc. Physics (Hons.)**

A brief description of the learning outcome for B.Sc. Physics (Hons.) programme, that the students can reliably demonstrate on completion of the course, is given below.

1. **Critical Thinking**: The student will be able to:
  - Create a hypothesis and appreciate how it relates to broader theories.
  - Evaluate hypothesis, theories, methods and evidence within their proper contexts.
  - Evaluate hypothesis, theories, methods and evidence within their proper contexts.
  
2. **Problem solving**: The student will be able to:
  - Organize and carry out solutions to long, complex physics problems by critical understanding, analysis and synthesis.
  - Computationally model the behavior of physical systems.
  - Troubleshoot difficulties encountered in experiments or computations.
  - Use advanced mathematical approaches in problem-solving.
  - Use computers for control, data acquisition and data analysis in experimental investigations.
  
3. **Sense Making**: The student will be able to:
  - Translate physical descriptions into mathematical equations, and conversely, explain the physical meaning of mathematical results.
  - Critically interpret data, write reports and apply the basics of rules of evidence.
  - Identify their misconceptions, and ask specific questions in order to resolve them.
  - Provide a systemic understanding of core physical concepts, principles and theories along with their applications.
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4. **Self-directed and Life-long Learning**: The student will be able to:
  - Recognize the need to engage in lifelong learning through continuing education and research.
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5. **Communication and collaboration**: The student will be able to:
  - Communicate effectively by oral, written, computing and graphical means using professional norms.
  - Function on multidisciplinary teams by working cooperatively, creatively and responsibly as a member of a team.
  
6. **Experimental Ability**: The student will be able to:
  - Design an experiment for the measurement of a given physical quantity.



- Estimate source of error and minimize them.
- Interpret the experimental results.

7. **Career Avenues:** The Career opportunities for the students on completion of this course are:

- Teaching in schools & colleges (after M.Sc. and NET qualification) where any of the science subjects is an important discipline.
- Indian Administrative Services and other State and Central Govt. Services where knowledge of science subjects is an advantage.
- Careers in organizations/industries where a high level of competence in Physics is demanded.

## **UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

**The Four-Year Undergraduate Programme (FYUGP) in Science at Karim City College, Jamshedpur** provides students with a robust disciplinary foundation while introducing them to cutting-edge developments in the field. The programme's multidisciplinary structure encourages exploration at the intersections of science and other fields of study.

Following are the learning outcomes for science programs under the **National Education Policy (NEP) 2020** and these outcomes are crucial for shaping the next generation of scientists, researchers, and informed citizens:

### 1. **Critical Thinking and Problem-Solving:**

- Science education goes beyond memorizing facts. It cultivates critical thinking skills—analysing evidence, evaluating hypotheses, and solving complex problems. Students learn to approach challenges systematically, considering multiple perspectives and evidence-based solutions.

### 2. **Interdisciplinary Knowledge:**

- NEP 2020 emphasizes multidisciplinary learning. Science students explore connections between physics, chemistry, biology, mathematics, and other fields. This holistic approach fosters creativity, as students draw insights from diverse domains and apply them to real-world scenarios.

### 3. **Effective Communication:**

- Scientists must communicate their findings clearly. Science programs equip students with written and oral communication skills. Whether presenting research papers, collaborating in teams, or explaining complex concepts, effective communication is essential.

### 4. **Ethical and Social Responsibility:**

- Science isn't just about knowledge; it's about responsibility. Students learn ethical conduct, environmental sustainability, and social impact. They understand the implications of scientific choices on society, culture, and the environment.

### 5. **Research and Inquiry Skills:**

- Science thrives on inquiry. Students gain research skills—designing experiments, collecting data, and drawing meaningful conclusions. They learn to ask questions, explore hypotheses, and contribute to scientific knowledge.

### 6. **Adaptability and Lifelong Learning:**

- Science evolves rapidly. NEP 2020 encourages students to embrace lifelong learning. Graduates must adapt to new discoveries, technologies, and paradigms. Curiosity and a growth mindset are essential.

These learning outcomes empower graduates to contribute meaningfully to scientific advancements, address global challenges, and make informed decisions. By emphasizing critical thinking, interdisciplinary connections, and ethical awareness, NEP 2020 prepares students for a dynamic and ever-changing scientific landscape.

# UG COURSE OUTCOMES (FYUGP)

## Semester-1

### MAJOR -01: MECHANICS

**After completing this course, student will be able to:**

- Understand laws of motion and their application to various dynamical situations, notion of inertial frames and concept of Galilean invariance. He / she will learn the concept of conservation of energy, momentum, angular momentum and apply them to basic problems.
- Understand the principles of elasticity through the study of Young Modulus and modulus of rigidity.
- Understand simple principles of fluid flow and the equations governing fluid dynamics.
- Apply Kepler's law to describe the motion of planets and satellite in circular orbit, through the study of law of Gravitation.
- Explain the phenomena of simple harmonic motion and the properties of systems executing such motions.
- Describe how fictitious forces arise in a non-inertial frame, e.g., why a person sitting in a merry-go-round experiences an outward pull.
- Describe special relativistic effects and their effects on the mass and energy of a moving object.
- Appreciate the nuances of Special Theory of Relativity (STR)
- Perform experiments related to mechanics (compound pendulum), rotational dynamics (Flywheel), elastic properties (Young Modulus and Modulus of Rigidity) and fluid dynamics (verification of Stokes law, Searle method) etc.

**The students are expected to:**

- Develop an understanding of how to formulate a physics problem and solve given mathematical equation risen out of it.
- Learn the concepts of elastic constant of solids and viscosity of fluids.
- Develop skills to understand and solve the equations central force problem.
- Acquire basic knowledge of oscillation.
- About inertial and non-inertial systems and special theory of relativity.

## Semester – 2

### PHYSICS-MAJOR -02-Mathematical Physics

**After completing this course, student will be able to:**

- Use curvilinear coordinates to solve problems with spherical and cylindrical symmetries.
- Understand Dirac Delta function and its properties.
- Understand Fourier analysis of periodic function and their applications in physical problems.
- Understand gamma and beta functions and their applications.

### PHYSICS-MAJOR -03-Electricity and Magnetism-1

**After completing this course, student will be able to:**

- Understand Gauss' law, Coulomb's law for the electric field, and apply them to systems of point charges as well as line, surface, and volume distributions of charges. Also, to use the knowledge to solve some simple problems.
- Express electric current and capacitance in terms of electric field and electric potential.

- Calculate the force experienced by a moving charge in a magnetic field.
- Determine the magnetic force generated by a current carrying conductor.
- Have brief idea of magnetic materials, understand the concept of electromagnetic induction, solve problems using Faraday's and Lenz's laws.

## **Semester - 3**

### **PHYSICS-MAJOR -04-Waves and Optics**

**After completing this course, student will be able to:**

- Recognize and use a mathematical oscillator equation and wave equation, and derive these equations for certain systems.
- Apply basic knowledge of principles and theories about the behaviour of light and the physical environment to conduct experiments.
- Understand the principle of superposition of waves, so thus describe the formation of standing waves.
- Explain several phenomena we can observe in everyday life that can be explained as wave phenomena.
- Use the principles of wave motion and superposition to explain the Physics of polarisation, interference and diffraction.
- Understand the working of selected optical instruments like biprism, interferometer, diffraction grating, and holograms.
- Use various optical instruments and making finer measurements of wavelength of light using Newton Rings experiment, Fresnel Biprism etc.
- Determine Resolving power of optical equipment.
- Understand Lissajous figures and behaviour of transverse, longitudinal waves.

### **PHYSICS-MAJOR -05- Electricity and magnetism**

**After completing this course, student will be able to:**

- Explain and differentiate the vector and scalar formalisms of electrostatics.
- Apply Gauss's law of electrostatics to solve a variety of problems.
- Describe the magnetic field produced by magnetic dipoles and electric currents.
- Explain Faraday-Lenz and Maxwell laws to articulate the relationship between electric and magnetic fields.
- Understand the dielectric properties, magnetic properties of materials and the phenomena of electromagnetic induction.
- Describe production and effects of magnetism.
- Understand Maxwell's equations, role of displacement current, gauge transformations, scalar and vector potentials, Coulomb and Lorentz gauge, boundary conditions at the interface between different media.
- Apply Maxwell's equations to deduce wave equation, electromagnetic field energy, momentum and angular momentum density.
- Analyse the phenomena of wave propagation in the unbounded, bounded, vacuum, dielectric, guided and unguided media.
- Understand the laws of reflection and refraction and to calculate the reflection and transmission coefficients at plane interface in bounded media.
- Understand the principles of electromagnetic radiation, retarded potentials.
- Understand the relativistic formulation of electrodynamic

## **Semester - 4**

## PHYSICS-MAJOR-06-MATHEMATICAL PHYSICS- II

**After completing this course, student will be able to:**

- Understand the special functions, such as the Hermite polynomial, the Legendre polynomial, the Laguerre polynomial and Bessel functions and their differential equations, applications in various physical problems such as in quantum mechanics which they will learn in future courses in detail.
- Understand the beta, gamma and the error functions and their applications in doing integrations.
- Solve partial differential equations and its application in Physics.
- Apply the Scilab software in curve fittings, in solving system of linear equations, generating and plotting special functions such as Legendre polynomial and Bessel functions, solving first and second order ordinary and partial differential equations.
- Understand the Fourier transform, the inverse Fourier transform, the Laplace transform, the inverse Laplace transforms, their properties and their applications in physical problems.
- Apply their C++/Scilab programming language to solve some problems of physics.

## PHYSICS-MAJOR-07-THERMAL AND STATISTICAL PHYSICS.

**After completing this course, student will be able to:**

- Understand concepts of first law of thermodynamics, the second law of thermodynamics, the entropy, the associated theorems, the thermodynamic potentials and their physical interpretations.
- Understand Maxwell's thermodynamic relations.
- Understand kinetic theory of gases, Maxwell-Boltzmann distribution law, equipartition of energies, mean free path of molecular collisions, viscosity, thermal conductivity, diffusion and Brownian motion.
- Understand real gas equations, Van der Waal equation of state, the Joule- Thompson effect.
- Understand the concepts of microstate, macrostate, ensemble, phase space, thermodynamic probability and partition function.
- Understand the combinatoric studies of particles with their distinguishably or indistinguishably nature and conditions which lead to the three different distribution laws
- Apply classical statistical mechanics to derive the law of equipartition of energy and specific heat.
- Understand Gibbs paradox, equipartition of energy & concept of negative temp. in two level system.
- Derive classical black body radiation laws, ultraviolet catastrophe. Saha ionization formula.
- Calculate the macroscopic properties of degenerate photon gas using BE distribution law.
- Understand Bose-Einstein condensation law, liquid Helium and Bose derivation of Plank's law
- Understand the concept of Fermi energy and Fermi level, calculate the macroscopic properties of completely and strongly degenerate Fermi gas, electronic contribution to specific heat of metals.
- Understand the application of F-D statistical distribution law to derive thermodynamic functions of a degenerate Fermi gas, electron gas in metals and their properties.
- Calculate electron degeneracy pressure and ability to understand the Chandrasekhar mass limit, stability of white dwarfs against gravitational collapse.
- Compare the following distributions as a function of temperature for various energies and the parameters of the three distribution functions.
- Apply Statistical mechanics to simple problems in Solid State Physics and Astrophysics

## PHYSICS-MAJOR-08-PRACTICAL MATHEMATICAL THERMAL AND STATISTICAL PHYSICS

**After completing this course, student will be able to:**

- Use C/C++/Scilab/Matlab/other numerical Computer simulations
  - (i) To study: Planck's Black Body Radiation Law.
  - (ii) For solving the problems based on Statistical mechanics and also other problems related to Physics.

**Semester - 5**

## PHYSICS-MAJOR-09-ANALOG AND DIGITAL ELECTRONICS

**After completing this course, student will be able to:**

- Understand the properties and functions of different active and passive components electronic/ electric components and also of integrated circuits.
- Understand analog systems, digital systems, fundamental logic gates, combinational as well as sequential and number systems.
- Know the Synthesis of Boolean functions, simplification and construction of digital circuits by employing Boolean algebra.
- Use Flip-Flop as a building block to construct multivibrators, counters.
- Understand RAM, ROM and also the memory organization.
- Construct both combinational circuits and sequential circuits by employing NAND as building blocks and demonstrate Adders, Subtractors, Shift Registers, and multivibrators using 555 ICs.
- To use  $\mu\text{P}$  8085 to demonstrate the same simple programme using assembly language and execute the programme using a  $\mu\text{P}$  kit.
- Understand N- and P- type semiconductors, mobility, drift velocity, fabrication of P-N junctions; forward and reverse biased junctions, application of PN junction as rectifiers and voltage regulators.
- Understand NPN and PNP transistors, their basic configurations, current gain, voltage gain, biasing, equivalent circuits, coupled amplifiers, feedback in amplifiers and oscillators.
- To characterize various devices and also to construct amplifiers and oscillators using discrete components.
- Demonstrate inverting and noninverting amplifiers using op-amps.

### **PHYSICS-MAJOR-10- ELEMENTS OF MODERN PHYSICS**

**After completing this course, student will be able to:**

- Understand the theory of quantum measurements, wave packets and uncertainty principle.
- Understand quantum mechanical wave functions, momentum and energy operator, the Schrodinger equation, probability density and the normalization techniques, one-dimensional rigid box, tunnelling through potential barrier, step potential, rectangular barrier.
- Understanding the properties of nuclei like density, size, binding energy, nuclear forces and structure of atomic nucleus, liquid drop model and nuclear shell model and mass formula.
- Calculate the decay rates and lifetime of radioactive decays like alpha, beta, gamma decay, neutrinos and its properties and role in theory of beta decay.
- Understand fission, fusion, energy in nuclear reactor and stellar energy in stars.
- Understand various interactions of radiation with matter. Electron positron pair creation.
- Understand the spontaneous and stimulated emission of radiation, optical pumping, population inversion, three level and four level lasers, Ruby and He-Ne laser and Basic lasing.
- Measure Planck's constant by more than one method.
- Verify of the photoelectric effect and determine of the work Function of a metal.
- Determine of the charge of electron and  $e/m$  of electron.
- Determine of the ionization potential of atoms.
- Determine the wavelength of the emission lines in the spectrum of Hydrogen atom.
- Determine the absorption lines in the rotational spectrum of molecules.
- Determine the wavelength of Laser sources by single and Double slit experiments
- Determine the wavelength and angular spread of He-Ne Laser using plane diffraction grating.
- Understand radioactive decay, determination of the mean life time of a Radioactive source, absorption of the electrons from Beta decay, electron spectrum in Radioactive Beta decays.

### **PHYSICS-MAJOR-11- PRACTICALS-IV ELECTRONICS AND MODERN PHYSICS**

**After completing this course, student will be able to:**

- Perform practical from syllabus of modern physics and electronics.

### **Semester - 6**

### **PHYSICS-MAJOR-12- QUANTUM MECHANICS AND APPLICATIONS**

**After completing this course, student will be able to:**

- Understand quantum theory formulation through Schrodinger equation.
- Interpret wave function of quantum particle and understand probabilistic nature of its location.
- To solving non-relativistic hydrogen atom, for its spectrum and eigenfunctions.
- Understand Stark effect and Zeeman Effect.
- To understand quantum many body problems.
- To solve Schrodinger equation for ground state energy and wave functions of quantum mechanical potentials using computational programming.

### **PHYSICS-MAJOR-13- SOLID STATE PHYSICS**

**After completing this course, student will be able to:**

- Understand crystalline and amorphous substances, lattice, unit cell, miller indices, reciprocal lattice, concept of Brillouin zones and diffraction of X-rays by crystalline materials.
- Understand lattice vibrations, phonons, Einstein and Debye theory of specific heat of solids.
- Understand different types of magnetism from diamagnetism to ferromagnetism and hysteresis loops and energy loss.
- Understand the dielectric and ferroelectric properties of materials.
- Understand the band theory of solids and difference between insulators, conductors and semiconductors.
- Understand the basic idea about superconductors and their classifications.
- To carry out experiments based on the theory that they have learned to measure the magnetic susceptibility, dielectric constant, trace hysteresis loop.
- To employ our probe methods to measure electrical conductivity and the hall set up to determine the hall coefficient of a semiconductor.

### **PHYSICS-MAJOR-14- NUCLEAR AND PARTICLE PHYSICS**

**After completing this course, student will be able to:**

- Understand the ground state properties of a nucleus as, constituents, mass number and atomic number, relation between the mass number and the radius, average density, range of force, saturation property, stability curve, packing fraction, binding energy, binding energy per nucleon vs. mass number graph, fusion and fission.
- Know about: (i) the liquid drop model, its justification, the semi-empirical mass formula (ii) the shell model, evidence, magic numbers, ground state spin and parity, theoretical deduction of the shell structure, consistency with the Pauli exclusion principles.
- Understand basic aspects of nuclear reactions, the Q-value of such reaction and its derivation from conservation laws, the reaction cross-sections, the types of nuclear reactions, direct and compound nuclear reactions, Rutherford scattering by Coulomb potential.
- Know interaction of nuclear radiation with matter- photoelectric effect, Compton scattering, pair production, energy loss due to ionization, Cerenkov radiation.
- Know about the principles and basic constructions of particle accelerators.
- Know the fundamental interactions, elementary and composite particles, the classifications of particles: leptons, hadrons, quarks, gauge bosons, the energy, linear momentum, angular momentum, isospin, electric charge, colour charge, strangeness, lepton numbers, baryon number of particles and the conservation laws associated with them.

### **PHYSICS-MAJOR-15-PRACTICALS QUANTUM SOLID STATE PHYSICS**

- After completing this course, student will be able to:  
Perform practical from syllabus of Quantum and solid-state physics.
- Use computer application for the solution of problems related to quantum mechanics.

### **Semester - 7**

### **PHYSICS-MAJOR-16- CLASSICAL DYNAMICS**

**After completing this course, student will be able to:**

- Understand the concept of classical mechanics, Lagrangian, Hamiltonian etc. and their applications.
- Learn to derive Euler-Lagrange equation of motion and Hamilton's equation of motion.
- Understand Lorentz transformations on space-time and other four vectors, four-vector notations, space-time invariant length, length contraction, time dilation, mass-energy relation, Doppler effect, light cone and its significance, problems involving energy- momentum conservations.
- Understand potentials due to a moving charge, Lienard Wiechert potentials, electric and magnetic fields due to a moving charge, power radiated, Larmor's formula and its relativistic generalization

### **PHYSICS-MAJOR-17- ADVANCED MATHEMATICAL METHODS IN PHYSICS**

**After completing this course, student will be able to:**

- Understand the basic mathematical structures are essential in solving problems in various branches of Physics as well as in Engineering.
- Learn Green's function and its application to one, two, and three-dimensional problem.
- Understand Electrodynamics and Relativity and apply them to basic problems.

### **PHYSICS-MAJOR-18- ADVANCED QUANTUM MECHANICS-I AND ADVANCED SOLID STATE PHYSICS**

**After completing this course, student will be able to:**

- To formulate a physics problem and solve given mathematical equation rising out of it.
- Learn the concepts of advanced Quantum Mechanics and Solid-State Physics.
- Develop skills to understand and solve the equations of central advance Quantum Mechanics and Solid-State Physics problem.
- Understand basic knowledge of Advanced Mathematical Physics

### **PHYSICS-MAJOR-19-OPTICS AND LASER**

**After completing this course, student will be able to:**  
**Perform practical from syllabus of Optics and Laser.**

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### **Semester - 8**

### **PHYSICS-MAJOR-20- SPECROSCOPY**

**After completing this course, student will be able to:**

- Understand basics of Spectroscopy
- To solve various spectra problems.
- Understand the concepts of Spectroscopy including the concept of molecular spectra, resonance spectroscopy.
- To understand and solve the equations of Lasers and Holography.

### **PHYSICS-MAJOR- Dissertation Research Project**

**After completing this Project, student will be able to:**

- Do researches in their field.

### **PHYSICS -AMJ-1 ADVANCED QUANTUM MECHANICS II**

**After completing this course, student will be able to:**

- Learn the concepts of advance Quantum Mechanics-II.
- Develop skills to understand and solve the equations of central advance Quantum Mechanics-II.

## **PHYSICS -AMJ-2 ADVANCED NUCLEAR PHYSICS**

**After completing this course, student will be able to:**

- learn the concepts of advanced nuclear physics and will be prepared to solve various nuclear reactor and detectors problems.

## **PHYSICS -AMJ-3 PRACTICALS-GENERAL ELECTRONICS, ATOMIC AND NUCLEAR PHYSICS**

**After completing this course, student will be able to:**

- Learn to perform practical of electronics, atomic and nuclear physics.

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**THE DEPARTMENT OF ZOOLOGY**  
**KARIM CITY COLLEGE, JAMSHEDPUR**  
**UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

**After successfully completing this course, students will:**

- Develop an understanding about the chordates and non-chordates
- Improved the knowledge about animals' special adaptations and evolutionary relationship.
- Improved information about external morphology and anatomy of animals including human being.
- Take appropriate steps towards conservation of endemic and endangered animal species.
- Develop ability in application of the acquired knowledge to improve applied zoology to make the Nation self-reliant and sufficient.
- Aware about natural resources and their importance in sustainable development.
- Have ability to engage in independent and life-long learning in the broadest context of technological change.
- Able to identify and critically evaluate their own beliefs, values and actions in relation to professional and societal standards of ethics and its impact on ecosystem and biosphere.
- To develop a thorough knowledge of origin and development of animals,
- Their interaction with another animals & environment.
- Study of applications of zoological knowledge for the benefit of mankind by developing an understanding of economic zoology.
- To understand body's immune system, it's response to a disease,
- Prevention, casual factors leading to disease, in order to improve the health and safety of entire population.
- Environmentally, Population Studies help us to understand human effects on natural resources, the environment, and human health. Understanding these effects can lead to programs and policies that help mitigate the negative impacts people have on the environment. – The primary focus of community ecology is on the interactions between populations as determined by specific genotypic and phenotypic characteristics. It is important to understand the origin, maintenance, and consequences of species diversity when evaluating community ecology
- To encourage the students towards creativity and generate scientific attitude towards ecosystem by developing a thorough knowledge of biodiversity, the interactions of various organisms, their evolutionary, ecological and cultural processes.
- To educate and develop appreciation in students about the need to protect and preserve the eco system as a long-range goal for the welfare of future generations by conserving our inherited biodiversity in order to maintain the ecological balance.

- Students will understand the structures and purposes of basic components of prokaryotic and eukaryotic cells and understand how these cellular components are used to generate and utilize energy in cells
- Understand about the structure and function of different cell organelles present in the cell.
- Develop an understanding about the cytoskeleton organizes other constituents of the cell, maintains the cell's shape, and is responsible for the locomotion of the cell itself and the movement of the various within it.
- Study the nucleus and understand the cell's control center and how it coordinates cell activities
- Understand cell division which is an essential process for the growth, repair and reproduction of living organisms.
- Understand the functions of Cell signalling

## **UG COURSE OUTCOMES (FYUGP)**

### **Semester-I**

#### **MAJOR PAPER 1 (MJ 1): DIVERSITY OF LIFE – PROTISTS TO ECHINODERMS**

After successfully completing this course, students will be able to:

- Classify invertebrates and to be able to understand the possible group of the invertebrate observed in nature.
- To understand the evolutionary significance of Onychophora and Ctenophora
- Understand the locomotor organelles and locomotion in protozoa.
- Describe polymorphism in hydrozoa and alternation of generation in sponges.
- Explain conservation and sustainable use of non-chordate animals

#### **PRACTICALS – B. Sc. - SEMESTER I**

- Recognize the live forms of invertebrate animals.
- Dissection of invertebrates
- Preparation temporary slides
- Study of museum specimens

### **B.Sc. Part I - Semester- II**

#### **MAJOR PAPER 2 (MJ 2) : DIVERSITY OF CHORDATES**

After successfully completing this course, students will have:

- Knowledge of classification of protochordates and chordates along with studies on various physiological functions and interactions of chordate organisms with examples
- Conceptual knowledge of vertebrate adaptations in relation to their environment
- Understand general taxonomic rules on animal classification.
- Origin of chordates
- Distribution of vertebrates in different realms, & their migration

#### **MAJOR PAPER 3 (MJ 3) : COMPARATIVE ANATOMY OF VERTEBRATES**

After successfully completing this course, students will have:

- Knowledge of Comparative anatomy related to derivatives of integuments, aortic arches and hearts

- Knowledge of skeletal system, digestive system nervous system and sense organs

### **PRACTICALS - B. Sc. - SEMESTER II**

- Identify specimens and classify animals from hemichordate to class mamilla.
- Dissection of vertebrates and preparation of blood film slides
- Preparation temporary slides of scales of fishes
- Types of beaks and claws
- Comparative osteology
- Identification of poisonous and non-poisonous snakes
- Explain and demonstrate stages of mitosis and meiosis in Cell division

### **B.Sc. Part II - Semester-III**

#### **MAJOR PAPER 4 (MJ 4) : PRINCIPLES OF ECOLOGY**

After successfully completing this course, students will be able to:

- Basic understanding of ecology and interaction of organisms
- Learning of population, community ecology and dynamics
- Demonstrating ecosystem ecology, processes and biogeochemical cycle

#### **MAJOR PAPER 5 (MJ 5) : CELL BIOLOGY AND HISTOLOGY**

After successfully completing this course, students will be able to:

- Understand and defines the terms in cell biology.
- Understand and compares between the prokaryotic and eukaryotic cells and extrapolates the life to the aspect of development.
- Describe the composition, structure and functions of the plasma membrane.
- Explain cellular mechanisms and its functioning depends on cell organelles and structures.
- Describe the electron transport mechanism and oxidative phosphorylation in mitochondria along with its structure.

### **PRACTICALS - B.Sc. - SEMESTER III**

- Determination of population density in a natural/hypothetical community pf quadrature method and calculation of Shannon-Weiner diversity index for the same community
- Study of various stages of meiosis
- Study of tissues through permanent slides
- Group discussion or seminar presentation

# THE POSTGRADUATE DEPARTMENT OF COMMERCE

## KARIM CITY COLLEGE, JAMSHEDPUR

### PG PROGRAMME SPECIFIC OUTCOMES

Program-Specific Outcomes (PSOs) depends on the chosen specialization and students will able to

- M.Com **with specialization in Finance:** Acquire in-depth knowledge of financial markets, investment analysis, risk management, and financial modeling. Develop skills for portfolio management, financial planning, and corporate finance functions.
- M.Com **with specialization in Marketing:** Gain expertise in advanced marketing strategies, consumer behavior analysis, and digital marketing techniques. Develop skills for market research, brand management, and creating effective marketing campaigns.
- Career Opportunities: Equips students for careers in commerce, finance, marketing management, and other related fields. These sectors are crucial to the Indian economy, offering promising job prospects.

### M.Com Program-outcomes

**After completing M.Com, students are able to:**

- **Advanced understanding of Business and Commerce:** The program provides in-depth knowledge of various commerce subjects like accounting, finance, Taxation marketing, and management.
- **Analytical and Conceptual Skills:** The curriculum is designed to develop strong analytical and critical thinking abilities to solve complex business problems.
- Professional Training: Practical knowledge and professional training in various commerce disciplines, preparing students for the job market.
- **Teaching and Research Careers:** The program equips students with the skills and foundation for pursuing teaching or research careers in commerce and allied disciplines.
- **Competitive Exam Preparation:** The curriculum can also help students prepare for competitive exams like UPSC, State Service Commission, M.Phil, JRF.NET and others, furthering students academic pursuits.
- **Entrepreneurial Skills:** The program can foster Students entrepreneurial abilities by providing insights into current business trends, regulations, and marketing strategies

# PG COURSE OUTCOMES

## M.Com SEMESTER -I

### PAPER: CC 101- COMPUTER APPLICATION IN BUSINESS

#### Objective

The purpose of this course is to equip the students with fundamental aspects of computers and communication and their application in Commerce.

#### Course Outcomes

The students will be able to learn the following Course Outcomes (COs) that are aligned with the provided objective and syllabus:

- Demonstrate a fundamental understanding of computer hardware components, their functions, and configuration in a computer system. (Units I & II)
- Apply basic computer skills using a Personal Computer (PC) as a virtual office tool. (Unit II)
- Explain the concepts of Local Area Networks (LANs), Wide Area Networks (WANs), Internet technologies, and the World Wide Web. (Unit III)
- Identify the roles of operating systems like DOS and Windows and utilize basic functionalities. (Unit IV)
- Describe the concept of Database Management Systems (DBMS) and its components like tables, forms, queries, and reports. (Unit V)
- Apply basic accounting principles using accounting software like Tally. (Unit VI)

By aligning the Course Outcomes with the course content, assessments and learning activities effectively measure student achievement of the intended learning goals. 6

## M.Com SEMESTER I

### PAPER: CC-102- MANAGEMENT CONCEPTS AND ORGANISATIONAL OBJECTIVE

The objective of this course is to help the student understand the conceptual framework of management and organizational behaviour.

#### Course Outcomes

**After completion of the course, students will be able to:**

#### Foundational Knowledge:

- Explain the core concepts and principles of various management schools of thought (e.g., Decision theory, Quantitative and System, Contingency). (Unit I)
- Analyse the key managerial functions – planning, organizing, staffing, directing, coordinating, and controlling – and their application in organizations. (Unit II)
- Define organizational behaviour and its significance within the management context. (Unit III)

#### Understanding Individuals and Groups:

- Explain the concepts of perception, personality, and transactional analysis, and their role in organizational behaviour. (Unit III)
- Analyse various theories of motivation (e.g., Need hierarchy, X & Y Theory, Two-factor theory) and their impact on employee behaviour. (Unit IV)

#### Leadership and Conflict Management:

- Define leadership, identify different leadership styles, and evaluate relevant leadership theories (e.g., Trait, Behavioural, Managerial Grid, Likert's Systems). (Unit V)

Analyse the dynamics of organizational conflict, including sources, patterns, types, and approaches to conflict management (traditional & modern). (Unit **Communication and Change Management**):

Explain the concept of two-way communication, the communication process, and barriers to effective communication within organizations. (Unit VII)

Identify different types of organizational communication and strategies for improvement. (Unit VII)

By aligning the Course Outcomes with the course content, assessments and learning activities effectively measure student achievement of the intended learning goals in Management Concepts and Organisational Behaviour.

## **M.Com SEMESTER - I**

### **PAPER: CC-103- FINANCIAL MANAGEMENT**

#### **Objective**

The objective of this course is to help students understand the conceptual framework of financial management and its applications under various environmental constraints.

#### **Course Outcomes**

Based on the course information of CC-103 provided here, after the completion of the Course, the students will be able to:

#### **Conceptual Understanding:**

Explain the fundamental concepts of financial management, its nature, scope, and the distinction between profit and wealth maximization. (Unit I)

Describe the key financial functions of investment, financing, and dividend decisions. (Unit I)

#### **Investment Appraisal:**

Analyse the nature of investment decisions and various capital budgeting techniques (e.g., Net Present Value, Internal Rate of Return, Payback Period) for project evaluation. (Unit II)

Compare and contrast Net Present Value (NPV) and Internal Rate of Return (IRR) methods and apply risk analysis in capital budgeting decisions. (Unit II)

#### **Cost of Capital and Capital Structure:**

Define and explain the significance of the cost of capital in financial decisions. (Unit III)

Calculate the cost of debt, preference capital, and equity capital, and determine the weighted average cost of capital (WACC). (Unit III)

Explain the Capital Asset Pricing Model (CAPM) and its role in determining the cost of equity. (Unit III)

Analyse various capital structure theories and their practical applications in determining a firm's capital mix. (Unit IV)

#### **Dividend Policy and Working Capital Management:**

Evaluate the key factors influencing dividend policy decisions and different forms of dividend behaviour. (Unit V)

Define working capital, its significance, and various types. (Unit VI)

Calculate the operating cycle and estimate working capital requirements. (Unit VI)

Analyse different sources of working capital financing and bank norms. (Unit VI)

By aligning the Course Outcomes with the course content, assessments and learning activities effectively measure student achievement of the intended learning goals in Financial Management. 9

**M.Com SEMESTER - I**  
**PAPER: CC-104 -STATISTICAL ANALYSIS**

**Objective:**

The objective of this course is to make the students learn the application of statistical tools and techniques for decision-making.

**Course Outcomes**

**After completion of the course, (CC-104) students will be able to:**

**Foundational Knowledge of Probability:**

- Define and differentiate between classical, relative, and subjective probability concepts. (Unit I)
- Apply addition and multiplication rules of probability to solve problems. (Unit I)
- Explain conditional probability and apply Bayes' theorem for decision-making under uncertainty. (Unit I)

**Understanding Probability Distributions:**

- Identify the characteristics and applications of common probability distributions like Binomial, Poisson, and Normal distributions. (Unit II)

**Data Collection, Sampling, and Hypothesis Testing:**

- Distinguish between probability and non-probability sampling methods. (Unit III)
- Evaluate the impact of sampling and non-sampling errors on data analysis. (Unit III)
- Explain the Law of Large Numbers and Central Limit Theorem and their significance in statistics. (Unit III)
- Apply hypothesis testing procedures like ANOVA, T-Test, and Chi-Square Test for statistical inference. (Unit III)

**Data Management and Analysis:**

- Differentiate between primary and secondary data sources for statistical analysis. (Unit IV)
- Describe primary data collection techniques like schedules, questionnaires, and interviews. (Unit IV)
  
- Calculate and interpret correlation coefficients (Karl Pearson and Spearman's Rank) to measure the strength and direction of linear relationships between variables. (Unit V)
- Apply linear regression analysis to model the relationship between a dependent and one or more independent variables. (Unit VI)

By aligning the Course Outcomes with the course content, assessments and learning activities effectively measure student achievement of the intended learning goals in Statistical Analysis.

**M.Com SEMESTER - I**  
**PAPER: CC-105- BUSINESS ENVIRONMENT**

**Objective**

The basic objective of this course is to gain the ability to understand Business Environment.

**Course Outcomes**

**After completion of the course, (CC-104) students will be able to:**

**Understanding the Business Landscape:**

- Explain the concept, significance, and key components of the business environment. (Unit I)

**Impact of External Factors:**

- Analyse the influence of economic, political, legal, and cultural environments on business operations. (Unit II)

- Evaluate the impact of globalization on business, including institutions like GATT, WTO, FDI (Foreign Direct Investment), Balance of Payments, Banking, and Financial Services. (Unit III)

#### **Governmental Policies and Regulations:**

- Explain the role of fiscal policy and monetary policy in shaping the business environment. (Unit IV)
- Analyse the Foreign Exchange Management Act (FEMA) and Consumer Protection Act, and their implications for businesses. (Unit V)

#### **The Indian Context:**

- Evaluate the impact of economic reforms in India, including Liberalization, Privatization, and Globalization (LPG) on the business landscape. (Unit VI).

By aligning the Course Outcomes with the course content, assessments and learning activities effectively measure student achievement of the intended learning goals in the Business Environment.

## **M.Com SEMESTER -II** **PAPER: CC-201-BUSINESS RESEARCH**

### **Objective**

The object of this subject is to acquaint and enhance the knowledge of Business Research and to provide insight as to how business research is conducted.

### **Course Outcomes**

**After completion of the course, (CC-201) students will be able to:**

#### **Understanding Business Research:**

- Explain the purpose, role, and various philosophies of business research. (Unit I)
- Define key business research terminology and discuss the process of organizing research, including outsourcing options. (Unit I)
- Explain the ethical considerations involved in conducting business research. (Unit I)

#### **Research Problem Definition and Design:**

- Identify and articulate well-defined business research problems. (Unit II)
- Develop a comprehensive research proposal, including research objectives, hypotheses, and information needs. (Unit II)
- Differentiate between various research designs (exploratory, descriptive, causal) and select the most appropriate design for a given research problem. (Unit II)
- Evaluate major experimental designs and assess their reliability and validity. (Unit II)
- Compare and contrast quantitative and qualitative research approaches. (Unit II)

#### **Data Collection and Management:**

- Identify and utilize various secondary data sources for business research. (Unit III)
- Apply primary data collection methods (observation, questioning) and design effective questionnaires. (Unit III)
- Explain scaling techniques used in research and assess the reliability and validity of data. (Unit III)
- Understand the concept of panel data and its application in research. (Unit III)

#### **Survey Design and Implementation:**

- Differentiate between census and survey methods for data collection. (Unit IV)



- Design a sample survey by defining the universe, sampling frame, sampling unit, and appropriate sampling method (for cross-sectional and longitudinal data). (Unit IV)
- Explain the process of organizing fieldwork, including selection, training, supervision, and evaluation of fieldworkers. (Unit IV)
- Distinguish between sampling errors and non-sampling errors and identify strategies for managing non-sampling errors. (Unit IV)

**Data Analysis, Interpretation, and Reporting:**

- Perform data editing, coding, and cleaning procedures for survey and panel data. (Unit V)
- Apply uni variate and bi-variate analysis techniques to understand data distribution and relationships between variables. (Unit V)
- Explain the basic concepts and applications of major multivariate data analysis techniques for analysing interdependence and dependence between variables. (Unit V)
- Prepare a comprehensive and well-structured business research report. (Unit V)

By aligning the Course Outcomes with the course content, it can be ensured that assessments and learning activities effectively measure student achievement of the intended learning goals in Business Research.

**M.Com SEMESTER- II**

**PAPER: CC-202- CORPORATE FINANCIAL ACCOUNTING**

**Objective:**

The objective of this course is to expose students to advanced accounting issues and practices such as maintenance of company accounts, valuation of goodwill and shares, and handling accounting adjustments.

**Course Outcomes**

**After completion of the course, "Corporate Financial Accounting", students will be able to:**

**Conceptual Foundations and Standards:**

- Apply fundamental accounting concepts, principles, and conventions in corporate accounting practices. (Unit I)
- Demonstrate an understanding of the role and application of Accounting Standards in corporate financial reporting. (Unit I)

**Advanced Accounting Practices:**

- Account for the redemption of shares and debentures using appropriate accounting methods. (Unit II)
- Apply various techniques for valuing goodwill and shares in a corporate setting. (Unit III)
- Prepare and interpret accounts related to mergers and acquisitions, considering Accounting Standard 14 (AS 14) and company reconstructions. (Unit IV)
- Consolidate the financial statements of holding and subsidiary companies using appropriate accounting procedures. (Unit V)
- Account for the liquidation process of companies, following relevant accounting standards. (Unit VI)

**Specialized Accounting Areas:**

Apply accounting principles to specific industries or activities, such as voyage accounting or investment accounting, if covered in Unit VII.

By aligning the Course Outcomes with the course content, it can be ensured that assessments and learning activities effectively measure student achievement of the intended learning goals in Corporate Financial Accounting.

## M.Com SEMESTER -II

### PAPER: CC-203- ACCOUNTING FOR MANAGERIAL DECISIONS

#### Objective

The objective of this course is to acquaint students with accounting concepts, tools, and techniques for Managerial decisions.

#### Course Outcomes

**After completion of the course, (CC-203) students will be able to:**

#### Understanding Management Accounting:

- Distinguish between financial accounting, cost accounting, and management accounting, and explain the role of management accounting in managerial decision-making. (Unit I)
- Explain the objectives, nature, and scope of management accounting within an organization. (Unit I)
- Describe the position, role, and responsibilities of a management accountant. (Unit I)

#### Budgeting and Cost Control:

- Define budgeting and its essential elements. (Unit II)
- Identify and differentiate between different types of functional budgets (e.g., production, marketing, sales). (Unit II)
- Distinguish between fixed and flexible budgets and explain their applications. (Unit II)
- Explain the concept of standard costing as a management control technique and the process of setting and revising standards. (Unit III)
- Define variance analysis, its importance, and different types of variances (material, labor, overhead). (Unit III)
- Interpret the meaning and purpose of variances in cost control processes. (Unit III)

#### Cost Analysis and Decision Making:

- Define marginal cost and explain its role in managerial decisions. (Unit IV)
- Differentiate between marginal costing and absorption costing and analyze their advantages and disadvantages. (Unit IV)
- Apply cost-volume-profit (CVP) analysis to understand the relationship between costs, volume, and profit. (Unit IV)
- Utilize CVP analysis to support decision-making on issues such as sales mix, make-or-buy decisions, and product line discontinuation. (Unit IV)

#### Management Reporting:

- Explain the objectives of management reporting and how reporting needs differ across managerial levels. (Unit V)
- Identify and differentiate between different types of management reports. (Unit V)
- Describe various methods for reporting information to management at different organizational levels. (Unit V)

By aligning the Course Outcomes with the course content, it can be ensured that assessments and learning activities effectively measure student achievement of the intended learning goals in Accounting for Managerial Decisions.

**M.Com SEMESTER - II**  
**PAPER: CC-204- MANEGERIAL ECONOMICS**

**OBJECTIVE**

The Course develops a managerial perspective to economic fundamentals as aids to decision-making under given environmental constraints.

**Course Outcomes**

After completion of the course, **Managerial Economics, students will be able to:**

**Managerial Perspective on Economic Concepts:**

- Apply economic theory to understand the objectives of a firm and the role of managerial economics in decision-making. (Unit I)
- Explain fundamental economic concepts like incremental principle, opportunity cost, discounting principle, and equimarginal principle, and their relevance in managerial decisions. (Unit I)

**Demand Analysis and Applications:**

- Differentiate between individual and market demand functions. (Unit II)
- Explain the law of demand, its determinants, and various types of elasticities (price, income, cross). (Unit II)
- Calculate and interpret elasticity measures to inform managerial decisions. (Unit II)

**Production and Cost Analysis:**

- Explain the concept of production functions, including production with one and two variable inputs, and stages of production. (Unit III)
- Analyse the concept of economies of scale and estimate production functions. (Unit III)
- Define and differentiate between short-run and long-run cost functions, their nature, shape, and interrelationships. (Unit III)
  
- Apply value analysis to cost management and explain the laws of variable proportions and returns to scale. (Unit III)

**Market Structures and Pricing:**

- Identify and characterize different market structures (perfect competition, monopolistic competition, oligopoly, and monopoly). (Unit IV)
- Analyse price determination and firm equilibrium under various market conditions in the short run and long run. (Unit IV)

**Pricing Strategies and Practices:**

- Evaluate various methods used for price determination in real-world business scenarios. (Unit V)
- Develop pricing strategies for single and multiple products, considering market dynamics and objectives. (Unit V).

By aligning the Course Outcomes with the course content, it can ensured that assessments and learning activities effectively measure student achievement of the intended learning goals in Managerial Economics.

**M.Com SEMESTER- II**  
**PAPER: CC-205- INTERNATIONAL BUSINESS**

**Objective**

The objective of this course is to acquaint the students with the nature and scope of international business operations and familiarize them with trends and developments in an international business environment. It also intends to make them understand the theoretical foundations of international trade and investment along with the realities and rationale of trade and investment policies.

**Course Outcomes**

The following Course Outcomes (COs) aligned with the provided objective and syllabus for "International Business" will be able to upgrade the knowledge of the students:

**Understanding the Global Business Landscape:**

- Explain the nature, scope, and importance of international business operations in today's globalized world. (Unit I)
- Analyse the key drivers and consequences of globalization for international businesses. (Unit I)
- Make informed decisions about market entry strategies and modes of entry for international business ventures. (Unit I)

**Theories and Practices of International Trade:**

- Identify the reasons for international trade and explain its benefits. (Unit II)
- Evaluate major theories of international trade, including mercantilism, absolute advantage, comparative advantage, factor proportions theory, product life cycle theory, new trade theory, and national competitive advantage. (Unit II)
- Analyse the patterns and structure of international trade in goods and services. (Unit II)
- Explain how governments intervene in international trade and the effects of various trade intervention instruments (tariffs, quotas, etc.). (Unit II)

**International Business Environment:**

- Describe the key aspects of political, legal, economic, and cultural environments relevant to international business operations, including associated risks. (Unit III)
- Apply a framework to analyse and compare political, legal, economic, and cultural environments across different countries. (Unit III)

**Regulation and Institutions:**

- Explain the relationship between world trade and protectionism. (Unit IV)
- Analyse the importance of GATT, WTO, and its trading principles and structure. (Unit IV)
- Evaluate the significance of key WTO agreements, particularly for developing countries like India. (Unit IV)

**Financial Management in International Business:**

- Explain the components of the Balance of Payments (BOP) account, including the current account, capital account, and official reserve account. (Unit V)
- Analyse the causes and consequences of BOP disequilibrium and identify methods for its correction. (Unit V)
- Describe the evolution of the international monetary system and different exchange rate regimes. (Unit V)
- Explain the role of international economic institutions like IMF, World Bank, and UNCTAD, and the functions of international money and capital markets. (Unit V)

.Aligning Course Outcomes with course content ensures that assessments and learning activities effectively measure student achievement of the intended learning goals, promoting a strong foundation in International Business."

**M.Com SEMESTER - III**  
**PAPER: CC-301- CORPORATE LEGAL FRAMEWORK**

**Objective:**

**The objective of this course is to provide knowledge of relevant provisions of various laws influencing business operation.**

**Course Outcomes**

Based on the course information of CC-301 provided here, after the completion of the Course, the students will be able to:

**Knowledge:**

- Understand the key provisions of various laws impacting business operations in India, including:
  - o The Companies Act, 2013
  - o SEBI Act, 1992
  - o Consumer Protection Act, 1986
  - o FEMA Act, 1999
  - o WTO framework
- Grasp the different types of companies and their formation processes
- Identify the roles and responsibilities of various stakeholders in a company (directors, shareholders, etc.)
- Understand the regulatory framework for securities markets and consumer protection
- Gain knowledge of international business regulations, including foreign exchange management and World Trade Organization (WTO) principles

**Skills:**

- Apply legal knowledge to analyze and solve business-related problems
- Interpret relevant legal provisions to ensure business compliance
- Identify potential legal risks associated with business activities
- Develop critical thinking skills to evaluate legal issues and make informed decisions

**Values:**

- Appreciate the importance of ethical business practices and fair competition
- Recognize the rights of consumers and the need for their protection
- Understand the role of regulations in fostering a stable and prosperous business environment

**Additional Considerations:**

- Students should be able to effectively communicate their legal understanding both verbally and in writing.
- The course should encourage critical thinking and problem-solving skills applicable to real-world business scenarios.
- Students should develop an awareness of how legal frameworks evolve and adapt to changing business landscapes.

## M.Com SEMESTER- III

### Paper CC-302 Quantitative Techniques for Business Decisions:

#### Objective:

The objective of the course is to acquaint the students with the use of quantitative models in decision making.

#### Course Outcomes

Upon successful completion of this course, students will be able to:

- Apply quantitative techniques to solve business decision problems.
- Analyze and interpret data to make informed decisions.
- Develop and utilize mathematical models for business applications.

The provided course outline for CC-302 focuses on equipping students with the ability to leverage quantitative models for effective business decision-making.

#### 1. Apply quantitative techniques to solve business decision problems:

- Students will gain proficiency in using various quantitative tools like:
  - o Inventory Control models (EOQ models) to optimize stock levels and ordering decisions.
  - o PERT/CPM techniques for project scheduling and resource allocation.
  - o Replacement analysis models to determine the optimal time to replace aging equipment.
  - o Queuing theory concepts to analyze waiting lines and improve service efficiency.
  - o Assignment models for resource allocation problems, considering factors like unbalanced assignments and multiple optimal solutions.
- They will be able to identify the appropriate quantitative technique for a given business problem.
- They will develop the ability to translate real-world business scenarios into mathematical models.
- Students will practice applying these techniques to solve practical business cases through assignments and exams.

#### 2. Analyze and interpret data to make informed decisions:

- The course will equip students with skills to analyze various types of business data relevant to decision-making.
- This may involve calculating measures of central tendency (mean, median, mode) and dispersion (variance, standard deviation).
- Students will learn to interpret statistical results and identify trends and patterns within data sets.
- By analyzing data, students will be able to evaluate the effectiveness of different quantitative models applied to business problems.

#### 3. Develop and utilize mathematical models for business applications:

- Students will gain a foundational understanding of mathematical concepts used in quantitative models for business.
- This may involve basic algebra, probability theory, and linear programming techniques.
- The course will focus on developing the ability to translate business problems into
- Students will practice building and manipulating these models to arrive at solutions and recommendations for business decisions.

By achieving these course outcomes, students will be well-equipped to approach business decisions with a quantitative and data-driven perspective. They will be able to analyze problems, develop solutions using quantitative techniques, and make informed recommendations based on their analysis.

# **M.Com SEMESTER-III**

## **Elective: Finance**

### **PAPER: DSE-1- SECURITY ANALYSIS & PORTFOLIO ANALYSIS**

#### **Objective**

The basic objective of this course is to provide develop skill to analyse various type of securities.

#### **Course Outcomes**

The course, DSE-1: Security Analysis & Portfolio Analysis, aims to equip students with the skills required to analyze various securities and construct effective investment portfolios. Here's an elaboration of the course outcomes, detailing the specific capabilities students will develop:

#### **1. Analyze different types of securities:**

- Students will gain a comprehensive understanding of various investment avenues, including financial assets (stocks, bonds) and real assets (property, commodities).
- They will be able to identify and distinguish between different types of securities like bonds, preference shares, options, futures, and warrants.
- The course will equip students with the tools to assess the unique characteristics and risk-return profiles of each security type.
- Through security analysis, students will be able to evaluate the potential benefits and risks associated with investing in different securities.

#### **2. Evaluate security risk and return:**

- A core focus of the course will be understanding the concepts of systematic risk (market risk) and unsystematic risk (company-specific risk) and their impact on investment decisions.
- Students will learn various methods to measure risk and return associated with securities.
- They will be able to assess the sources of risk and apply risk mitigation strategies like diversification.
- By analyzing risk and return, students will develop the ability to make informed investment choices that align with their risk tolerance and financial goals.

#### **3. Construct and manage investment portfolios:**

- The course will introduce students to the concept of portfolio management, its objectives, and the portfolio management process.

- Students will gain insights into security selection techniques and portfolio diversification strategies.
- They will learn to consider factors like investment goals, risk tolerance, and investment horizon when building a portfolio.
- Through portfolio analysis, students will be able to evaluate the overall risk-return characteristics of a portfolio and make adjustments to optimize performance.

#### **4. Utilize investment information sources:**

- Students will develop the ability to identify and utilize credible sources of investment information.
- This may involve financial publications, company reports, market data, and investment research tools.
- By effectively using information sources, students will be able to stay informed about market trends, company performance, and new investment opportunities.



**Overall**, this course aims to develop critical skills for making sound investment decisions. Students will be equipped to analyze securities, evaluate risk and return, construct portfolios, and utilize investment information sources effectively.

## **M.Com SEMESTER -III**

### **Elective: Marketing**

#### **PAPER:DSE-1- PRINCIPLES OF MARKETING MANAGEMENT**

##### **Objective**

The objective of this course is to develop a basic understanding about the management concepts as well as of human in various managerial processes in organization.

##### **Course Outcomes**

Upon successful completion of this course, students will be able to:

##### **1. Grasp Core Marketing Concepts:**

- Students will be able to define marketing, explain its nature, scope, and significance in today's business environment.
- They will understand the evolution of the marketing concept and its role in creating value for customers.
- The course will equip students with knowledge of the marketing mix (product, price, place, promotion) and its role in developing marketing strategies.
- Students will gain insights into strategic marketing planning and its various components.

##### **2. Analyze Market Dynamics and Consumer Behavior:**

- This course will introduce students to the marketing environment, both macro (economic, social, political, technological) and micro (competitors, suppliers, intermediaries, customers).
- Students will learn to identify the impact of these environmental factors on marketing decisions.
- The course covers market segmentation and positioning strategies, enabling students to understand how businesses target specific customer groups.
- Students will gain knowledge of buyer behavior, including the decision-making process of both consumers and organizational buyers.

##### **3. Make Informed Product and Pricing Decisions:**

- Students will develop a comprehensive understanding of the concept of a product, its various classifications, and key product decisions.
- They will be able to analyze product lines and product mixes, and their strategic implications.
- The course will equip students with the knowledge of branding, packaging, and labeling strategies.
- Students will learn about the product life cycle and its impact on marketing strategies.
- They will gain insights into new product development processes and consumer adoption patterns.
- Through the study of pricing decisions, students will understand the factors affecting price determination and various pricing policies and strategies.
- They will be able to analyze the role of discounts and rebates in marketing strategies.

##### **4. Apply Marketing Research and Develop Effective Marketing Organizations:**

- Students will gain an understanding of marketing research, its purpose, and its role in informing marketing decisions.
- The course will introduce them to the marketing research process, enabling them to understand how marketing research is conducted.
- Students will learn about marketing organization structures and how marketing operations are controlled and monitored for effectiveness.



## **5. Understand Contemporary Marketing Issues and Developments:**

- This course will expose students to social, ethical, and legal considerations in marketing practices.
- They will gain insights into the specific marketing strategies required for services and international markets.
- The course will introduce students to emerging marketing trends like green marketing, cyber marketing, and relationship marketing.
- By understanding these developments, students will be prepared to adapt to the ever-changing marketing landscape.

By achieving these course outcomes, students will develop a solid foundation in marketing principles and practices. They will gain the ability to analyze markets, understand consumer behavior, and make informed marketing decisions across various product, pricing, and promotional strategies.

## **M.Com SEMESTER - III**

### **Elective: Finance**

### **PAPER: DSE-2- INDIAN FINANCIAL SYSTEM**

#### **Objective:**

The Course aims at providing the students with knowledge about the prevailing financial system in India delineating the role of intermediaries and regulatory bodies in the Indian financial system.

#### **Course Outcomes**

Upon successful completion of this course, students will be able to:

#### **1. Understand the Structure and Components of the Indian Financial System:**

- Students will be able to define the financial system and identify its key components: institutions, instruments, markets, and services.
- They will explain the functions and roles of the Indian financial system in facilitating economic development.
- Students will gain knowledge of the critical role played by regulatory bodies like RBI, SEBI, and IRDA in maintaining the stability and efficiency of the financial system.

#### **2. Analyze Banking and Non-Banking Institutions:**

- Students will be able to differentiate between commercial banks and development banks, understanding their unique functions in the Indian financial system.
- The course will equip them to analyze the recent developments in the commercial banking sector, particularly post-1991 reforms.
- Students will gain insights into the management of non-performing assets (NPAs) and the importance of capital adequacy norms for banks.
- They will be able to identify and understand the roles of various non-banking financial intermediaries like insurance companies, post offices, and mutual funds.

#### **3. Evaluate Money Market Instruments and Operations:**

- Students will acquire a solid understanding of the money market concept and its structure within the Indian financial system.
- The course will equip them to identify and analyze the key money market instruments like treasury bills, commercial bills, certificates of deposit, and call money.
- Students will be able to explain the role of money market benchmarks like repo rate, reverse repo rate, CRR (cash reserve ratio), and SLR (statutory liquidity ratio) in monetary policy.

#### **4. Analyze Capital Market Structure and Functions:**

- Students will be able to explain the structure and functions of the capital market in India, differentiating between primary and secondary markets.
- The course will equip them with knowledge of primary market activities like new issue markets, book building processes, private placements, and rights issues.
- Students will gain insights into the secondary market and its key institutions and intermediaries, including stock exchanges, commodity exchanges, depositories, and clearing houses.
- They will be able to understand the basic operations of the stock market.

### **5. Explain Financial Services and Risk Management Tools:**

- Students will gain knowledge of private equity, its types (venture capital, leveraged buyouts), and the associated costs and exit routes for investors.
- The course will introduce them to the concept of credit rating and its importance in the financial system. Students will be able to identify the objectives and types of credit rating and understand the credit rating process.
- They will learn about the uses of credit rating and the role of major credit rating agencies in India like CRISIL, ICRA, and CARE.

By achieving these course outcomes, students will develop a comprehensive understanding of the Indian financial system, its key institutions, instruments, and markets. They will gain the ability to analyze financial activities, understand risk management tools, and appreciate the role of the financial system in economic development.

## **M.Com SEMESTER - III**

### **Elective: Marketing**

#### **PAPER: DSE-2- ADVERTISING & SALES MANAGEMENT**

#### **Objective**

To develop an in-depth understanding of the modern concepts and latest techniques of advertising, personal selling and sales force management which is an integral area of marketing.

#### **Course outcomes**

Based on the course information of **PAPER: DSE-2- ADVERTISING & SALES MANAGEMENT** provided here, after the completion of the Course, the students will be able to:

#### **1. Understand the Role of Communication in Marketing:**

- Students will be able to explain the relationship between communication and marketing, and its importance in achieving marketing goals.
- They will gain a thorough understanding of the communication process and the models that explain how audiences respond to communication.
- The course will equip students with knowledge of the marketing communication mix and the concept of integrated marketing communication (IMC).
- Students will be able to differentiate between advertising and publicity and understand their roles within the IMC framework.

#### **2. Develop Effective Advertising Strategies:**

- Students will acquire a solid understanding of advertising management processes and the importance of setting clear advertising objectives.
- The course will introduce them to the DAGMAR approach (Defining Advertising Goals for Measured Advertising Results) for developing effective advertising campaigns.
- Students will gain insights into target audience identification, positioning strategies, and factors influencing advertising budget decisions.

#### **3. Create Compelling Advertising Messages and Select Media Channels:**

- Students will develop an appreciation for the role of creativity in advertising and the various stages of the creative process.
- The course will equip them with knowledge of creative strategies, advertising appeals, and execution styles for crafting impact messages.
- Students will be able to differentiate between various media types and understand the specific strengths of advertising through online and interactive media.
- They will gain skills in media planning, selection, and scheduling to effectively reach target audiences.

#### **4. Analyze the Ethical and Social Impact of Advertising:**

- Students will develop critical thinking skills to analyze the ethical and social implications of advertising practices.
- The course will expose them to advertising regulations in India and how they impact advertising campaigns.
- Students will gain insights into recent developments and emerging issues in the advertising landscape.

#### **5. Manage the Sales Process and Sales Force:**

- Students will comprehend the nature and importance of selling in marketing activities and differentiate between various selling styles.
- The course will equip them with knowledge of the sales management process and the environmental factors that influence personal selling.
- Students will gain insights into ethical considerations within the sales environment and the role of personal selling in customer relationship management.

#### **6. Develop Sales Strategies and Manage Sales Teams:**

- Students will be able to apply their understanding of market analysis and sales forecasting to set personal selling objectives.
- The course will equip them with skills to develop sales budgets, establish sales territories, and set sales quotas.
- Students will understand the role of information technology in sales planning and learn about effective sales organization structures.
- They will gain insights into sales force management practices including recruitment, selection, training, development, compensation & rewards programs.

By achieving these course outcomes, students will develop a comprehensive understanding of advertising and sales management principles. They will be equipped with the knowledge and skills to create effective advertising campaigns, manage the sales process, and lead successful sales teams.

## **M.Com SEMESTER- III**

### **PROJECT (PR-1)**

**Marks: 100**

#### **Objective:**

Project exercise helps students to understand the methodology of action research. Students will get research exposure through the process.

Project topics will be given by the Department.

#### **Course Outcomes for PR-1 Project (Action Research)**

While specific project topics will be provided by the department, the PR-1 project aims to develop the following general course outcomes through an action research methodology:

#### **1. Understand Action Research Methodology:**

- Students will gain a foundational understanding of action research as a research methodology.

They will be able to identify the key characteristics of action research, including its cyclical nature and emphasis on collaboration and reflection.

## **2. Develop Research Skills:**

Through the project process, students will gain practical experience in conducting research.  
 This may involve skills like data collection techniques (surveys, interviews, observations), data analysis, and critical thinking.

## **3. Apply Research to Solve Practical Problems:**

The project will provide opportunities for students to apply research methods to address real-world public relations (PR) problems or challenges.  
 They will learn to formulate research questions, design research plans, and interpret their findings.

## **4. Develop Communication and Collaboration Skills:**

Students may be required to work in teams on their PR-1 projects, fostering collaboration and communication skills.  
 The project may involve presentations, reports, or other forms of communication, allowing students to effectively present their research findings.

## **5. Enhance Critical Thinking and Problem-Solving Skills:**

Through action research, students will develop critical thinking skills by analyzing data, evaluating research outcomes, and reflecting on their project experiences.  
 They will learn to approach PR challenges with a problem-solving mindset, identifying solutions based on their research findings.

## **6. Gain Practical Experience in Public Relations:**

Depending on the project topic, students may gain exposure to various aspects of public relations practice.  
 This may involve activities like developing communication strategies, managing public image, or creating promotional materials.

**Overall**, the PR-1 project aims to equip students with valuable research skills, problem-solving abilities, and an understanding of action research methodology. By applying these skills to practical PR problems, students gain valuable experience that can benefit their future careers in the field of public relations.

# **M.Com SEMESTER-IV PAPER: CC-401- STRATEGIC MANAGEMENT**

## **Objective**

The objective of this course is to enhance decision making abilities of students in situations of uncertainty in a dynamic business environment.

## **Course Outcomes**

Upon successful completion of this course, students will be able to:

- Analyze the internal and external environment of an organization to identify strategic opportunities and threats. (Unit II)
- Formulate effective corporate, business-level, and functional strategies considering industry dynamics and competitive forces. (Unit III & IV)
- Evaluate strategic alternatives using relevant frameworks and tools like SWOT analysis, value chain analysis, and bench marking. (Unit III)

- Recommend appropriate dividend policies considering financial health and growth objectives. (Unit V)
- Design and implement strategic control systems to monitor and evaluate the effectiveness of strategic decisions. (Unit VI)
- Apply strategic decision-making frameworks to address uncertainty and complexity in a dynamic business environment. (Overall Objective)
- Critically evaluate strategic concepts and theories in the context of real-world business scenarios.
- Effectively communicate strategic recommendations and justifications in written and oral formats.

These course outcomes provide a clear picture of what students are expected to know and be able to do by the end of the CC-401 Strategic Management course.

## **M.Com Semester- IV**

### **PAPER: CC-402- Corporate Tax Planning and Management**

#### **Objective**

The basic objective of this course is to provide an in depth insight into the concept of corporate tax planning and to equip the students with a reasonable knowledge of tax planning devices.

#### **Course Outcomes**

Based on the course information of **PAPER: CC-402 - Corporate Tax Planning and Management** provided here, after the completion of the Course, the students will be able to:

- Demonstrate a comprehensive understanding of the concept of corporate tax planning, including its definitions, objectives, and the legal framework. (Unit I)
- Analyze the specific tax treatment of companies, including computation of taxable income, deductions, and special provisions related to mergers, incentives, and profit distribution. (Unit II)
- Apply tax planning strategies to various business decisions, such as location, activity type, ownership structure, dividend policy, and inter-company transactions. Additionally, analyze tax implications of mergers, acquisitions, and specific managerial decisions like sourcing, ownership models, market focus, and foreign collaborations. (Unit III)
- Effectively manage corporate tax obligations, including filing returns, navigating assessments, understanding penalties and appeals processes, and utilizing advance tax payments, TDS mechanisms, and advance rulings. (Unit IV)
- Evaluate the benefits of Double Taxation Agreements (DTAs) in minimizing international tax burdens. (Unit IV)

These Course Outcomes align with the course content and objectives, focusing on students' ability to:

- Understand the theory and practice of corporate tax planning.
- Analyze tax implications of business decisions.
- Implement effective tax management strategies.
- Leverage tax benefits and minimize tax liabilities within legal boundaries.

## **M.Com SEMESTER -IV**

### **Elective: Finance**

#### **PAPER: DSE-3- Banking, Financial Institutions & Markets**

#### **Objective:**

The purpose of the course is to provide a sound information and knowledge of broad framework of Financial System and its constituents. The course will provide the students an understanding of the inter-linkages and regulatory frame-work within which the system operates in India.

#### **Course Outcomes**

Upon successful completion of this course, students will be able to:

- Explain the role and functions of various types of banks and financial institutions within the Indian financial system, including the Reserve Bank of India (RBI), NABARD, and development financial institutions (DFIs). (Unit I, II)
- Analyze the importance of banking to businesses, the concept of financial inter mediation, and the impact of banking sector reforms in India, including Non-Performing Assets (NPAs) and Capital Adequacy Norms (CAR). (Unit I)
- Evaluate the credit management process in Indian banks, encompassing working capital management, term lending, and credit information systems. (Unit II)
- Critically assess the regulatory framework governing banking operations and development banking institutions in India. (Unit II)
- Compare and contrast depository and non-depository institutions like mutual funds and chit funds, understanding their organization, function, and regulatory aspects. (Unit III)
- Differentiate between public and private insurance companies (Life and Non-Life) in India, analyzing their operational structure and regulatory framework. (Unit IV)
- Explain the role of pension funds in the financial system, describing their organization and operation. (Unit IV)
- Evaluate various financial instruments, including equity shares, preference shares, debentures, and other fixed-income securities. Analyze the primary and secondary markets for equity, including their allocation and operational efficiency. (Unit V)
- Discuss the concept of engineered financial and monetary instruments. (Unit V)

**These Course Outcomes emphasize students' ability to:**

- Gain comprehensive knowledge of the Indian financial system and its key players.
- Analyze the role and impact of banking and financial institutions on businesses and the economy.
- Critically evaluate regulatory frameworks governing different financial sectors.
- Understand and compare various financial instruments and markets.

**These outcomes can be further strengthened by incorporating specific skills, such as:**

- Financial Literacy:** Interpreting financial statements and making informed investment decisions.
- Critical Thinking:** Evaluating the strengths and weaknesses of different financial institutions and products.
- Research & Analysis:** Staying updated on current trends and developments in the financial sector.

## **M.Com SEMESTER- IV**

### **Elective: Marketing**

#### **PAPER: DSE-3- MARKETING RESEARCH**

##### **Objective**

The objective of the course is to develop and understand the research techniques prevailing in the markets.

##### **Course Outcomes**

Based on the course information of PAPER: DSE-3- MARKETING RESEARCH provided here, after the completion of the Course, the students will be able to:

- Explain the nature, scope, and structure of marketing research, outlining the key stages of the marketing research process. (Unit I)
- Differentiate and apply various research designs in marketing research, including exploratory, descriptive, and experimental designs. (Unit II)
- Evaluate different sources of marketing information and select appropriate methods for data collection, including observation, questionnaire design, attitude measurement techniques, and motivational research techniques. (Unit II)



- Design and implement effective market surveys, utilizing appropriate sampling procedures and determining optimal sample size. (Unit III)
- Analyze and interpret marketing research data using basic statistical techniques, understanding their limitations. (Unit IV)
- Apply advanced data analysis techniques like discriminant analysis, clustering methods, multi-dimensional scaling, and conjoint analysis to extract deeper insights from marketing research data. (Unit IV)
- Demonstrate the applications of marketing research in various areas, such as sales forecasting, brand positioning, market segmentation, and evaluating new marketing strategies. (Unit V)
- Identify and address ethical considerations in marketing research practices. (Unit V)

**These Course Outcomes highlight students' ability to:**

- Grasp the fundamentals of marketing research methodology.
- Design and execute effective marketing research projects.
- Analyze and interpret marketing research data using various techniques.
- Apply marketing research findings to solve real-world business problems.
- Maintain ethical standards throughout the marketing research process.

**These outcomes can be further strengthened by incorporating specific skills, such as:**

- Critical Thinking:** Evaluating the strengths and weaknesses of different research designs and data collection methods.
- Problem-Solving:** Identifying marketing research problems and designing appropriate research strategies to address them.
- Communication:** Clearly presenting marketing research findings and recommendations.
- Data Analysis:** Using statistical software for data analysis and interpretation.

**M.Com SEMESTER - IV**  
**PROJECT (PR-2)**  
**Marks:100**

**Objective**

Project exercise helps students to understand the methodology of action research. Students will get research exposure through the process.

Project topics will be given by the department.

**Course Outcomes**

While specific project topics will be provided by the department, the PR-2 project aims to develop the following general course outcomes through an action research methodology:

- Explain the principles and phases of action research, including problem identification, action planning, intervention, evaluation, and reflection.
- Apply action research methodology to a specific business or organizational problem.
- Develop a comprehensive research plan outlining research objectives, data collection methods, and data analysis techniques.
- Implement the research plan effectively, collecting and analyzing relevant data.
- Evaluate the effectiveness of the chosen intervention based on research findings.
- Reflect on the research process, identifying learning points, limitations, and potential for further improvement.
- Communicate research findings and recommendations clearly and concisely, both orally and in writing.
- Demonstrate critical thinking and problem-solving skills throughout the research project.
- Adhere to ethical research practices while conducting the project.

**These Course Outcomes emphasize students' ability to:**

- Understand and apply action research methodology.
- Develop and implement a research plan for addressing a real-world problem.
- Collect, analyze, and interpret data effectively.
- Evaluate research findings and draw insightful conclusions.
- Communicate research outcomes persuasively.
- Develop critical thinking, problem-solving, and research skills.

## **B.Com Program-outcomes**

**After completing B. Com., students are able to:**

- Financial Expertise:** Develop strong skills in financial accounting, cost accounting, and financial analysis to interpret financial data and make informed business decisions.
- Business Acumen:** Gain a comprehensive understanding of business concepts, principles, and practices across various areas like marketing, management, and human resources.
- Communication and IT Proficiency:** Become adept at business communication, written and oral, and leverage information technology tools for effective business operations.
- Analytical and Problem-Solving Skills:** Develop critical thinking, analytical, and problem-solving abilities to address complex business challenges.
- Ethical and Social Responsibility:** Demonstrate ethical conduct and social responsibility in business practices.
- Foundational Knowledge:** Gain a thorough understanding of core commerce subjects like accounting, finance, economics, business law, and taxation.
- Business Operations:** Develop a strong understanding of business processes, practices, and various functional areas like marketing, management, and human resources.
- Analytical & Decision-Making Skills:** Enhance critical thinking, problem-solving, and decision-making abilities to analyse business situations and make sound choices.
- Communication & Interpersonal Skills:** Become proficient in written and oral communication, effectively conveying ideas, and collaborating with others in a professional setting.
- Ethical & Social Responsibility:** Demonstrate ethical conduct and social responsibility in business practices, understanding the broader impact of business decisions.

## **B.Com PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

The Program Specific Outcomes (PSOs) vary depending on the student's chosen specialization.

**Specialization-Specific (PSOs)**

**Accounts & Finance :**

- o Prepare financial statements adhering to accounting standards.
- o Develop the ability to conduct audits, identify financial risks, and ensure adherence to accounting standards.



- Acquire expertise in financial markets, investment analysis, and portfolio management.
- Perform financial analysis and interpretation for informed decision-making.

- **Taxation:**

- Develop expertise in taxation, including income tax and GST.
- Gain in-depth knowledge of income tax regulations, Goods and Services Tax (GST), and other relevant tax laws for effective tax planning and compliance.

- **Marketing:**

- Design and implement effective marketing strategies for various products and services.
- Analyse consumer behaviour and market trends for strategic decision-making.
- Develop strong communication and interpersonal skills for successful marketing campaigns.

- **Management:**

- Apply management principles for effective planning, organizing, leading, and controlling business operations.
- Develop strong leadership and teamwork skills for a collaborative work environment.
- Analyse business challenges and implement solutions for improved performance.

# THE VOCATIONAL DEPARTMENT OF COMPUTER APPLICATION

## KARIM CITY COLLEGE, JAMSHEDPUR

### UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)

#### Programme Outcomes:

**PO 1:** Can Recognize the need for and ability to engage in continuing professional development.

**PO 2:** Will be able to make a decision on selection of appropriate techniques, skills, and tools necessary for Designing of correct models in the construction of software systems of varying complexity.

**PO 3:** Will be able to work in team and build leadership qualities.

**PO 4:** Can Apply mathematics and computing fundamental and domain concepts to find out the solution of defined problems and requirements. (Computational Knowledge).

**PO 5:** Will be able to design, analyse and develop solutions and evaluate system components or processes to meet specific need for local, regional and global public health, societal, cultural, and environmental systems. (Design/Development of Solutions)

**PO 6:** Can Work in the IT sector as system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.

**PO 7:** Enlighten knowledge to enhance understanding and building research, strategies in independent learning for continual development as computer applications professional. (Lifelong Learning)

**PO 8:** Establishing strategies in developing and implementing ideas in multi- disciplinary environments using computing and management skills as a member or leader in a team. (Project Management and Finance)

**PO 9:** Contribute to progressive community and society in comprehending computing activities by writing effective reports, designing documentation, making effective presentation, and understand instructions. (Communication Efficacy)

**PO 10:** Gain confidence for self and continuous learning to improve knowledge and competence as a member or leader of a team. (Individual and Teamwork)

**PO 11:** Gain confidence for self and continuous learning to improve knowledge and competence as a member or leader of a team. (Individual and Teamwork)

## **UG COURSE OUTCOMES (FYUGP)**

### **MJ-1 (Th): C Programming Language**

#### **Learning Outcomes:**

After completion of this course, a student will be able to–

- Understand and use the process of abstraction using a programming language such as ‘C’.
- Analyze step by step and develop a program to solve real world problems.

### **MJ-1 (Pr): C Programming Language Lab**

#### **Objectives:**

This course helps the students in understanding a powerful, portable and flexible structured programming language which is suitable for both systems and applications programming. It is a robust language which contains a rich set of built-in functions and operators to write any complex program.

#### **Learning Outcomes:**

After completion of this course, a student will be able to–

- Develop modular, efficient and readable C programs by hands-on experience.
- Interpret good profound knowledge in C programming language and enable them to build programs using Control Structures, Arrays, Strings, Pointers, Functions, Structures, and File Handling to solve the real world problems.
- Illustrate memory allocation to variables dynamically and perform operations on text files.

### **MJ-2 (Theory): Object Oriented Programming with C++**

#### **Objectives:**

The main objectives of the course are as follows–

- To get a clear understanding of object-oriented concepts.
- To understand the difference between object oriented and procedure oriented programming.
- To understand object-oriented programming through C++.
- To develop real life applications using Object Oriented Programming (OOP) concepts.

#### **Learning Outcomes:**

After completion of this course, a student will be able to–

- An understanding of the principles behind the object-oriented development process.
- Competence in the use of object-oriented programming language in the development of small to medium sized application programs.

## **MJ-3 (Theory): Data Structure using C++**

### **Objectives:**

Data Structure is considered as one of the fundamental papers towards a more comprehensive understanding of programming and application development. Students are expected to work towards a sound theoretical understanding of Data Structures and also compliment the same with hands on experience with implementation.

The main objectives of the course are as follows–

- To understand the basic concepts of data structures and algorithms.
- To be able to practically implement the data structures like stack, queue, array, lists, tree etc.
- To understand and implement different searching and sorting techniques.

### **Learning Outcomes:**

At the end of the course, students will be able to–

- Understand the need for Data Structures when building application.
- Able to walk through insert and delete for different data structures.
- Ability to calculate and measure efficiency of code.

## **MJ (Practical-2): Data Structure and C++ Lab**

### **Objectives:**

The main objectives of the course are as follows–

- To get a clear understanding of object-oriented concepts.
- To understand the difference between object oriented and procedure-oriented programming.
- To understand object-oriented programming through C++.
- To develop real life applications using Object Oriented Programming (OOP) concepts.
- To be able to practically implement the data structures like stack, queue, linked-list etc.
- To implement linear and non-linear data structures.
- To understand the different operations of binary search trees.
- To get familiarized to sorting and searching algorithms.

### **Learning Outcomes:**

After completion of this course, a student will be able to–

- Write basic C++ program using control structures, arrays strings etc.
- Demonstrate the concepts of reusability through the use of functions.
- Write object-oriented application using OOP concepts such as encapsulation, abstraction, polymorphism, inheritance etc.
- Use stream classes to manipulate data files.

- Understand the need for Data Structures when building application.
- Write functions to implement linear and non-linear data structure operations.
- Suggest appropriate linear and non-linear data structure operations for solving a given problem.
- Analyze various sorting methods.

### **MJ-4 (Theory): Relational Database Management System**

#### **Objectives:**

The objective of the course is to provide an introduction to database management systems, with an emphasis on how to organize, maintain and retrieve efficiently, and effectively information from a DBMS. It also exposes the students to advanced database concepts.

The main objectives of the course are as follows:

- Provide an introduction to the management of database systems.
- Understand the fundamentals of relational systems including data models, database architectures, and database manipulations.
- To know about the database requirements and determine the entities involved in the system and their relationship to one another.
- To know about manipulation of a database using SQL
- Understand Normalization techniques.

#### **Learning Outcomes:**

At the end of the course, students will be able to:

- Describe the fundamental elements of Relational Database Management Systems
- Explain the basic concepts of relational data model, entity-relationship model, relational database design, relational algebra, and SQL.
- Design ER-models to represent simple database application scenarios.
- Convert the ER-model to relational tables, populate relational database and formulate SQL queries on data.
- Improve the database design by normalization.

### **MJ-5 (Theory): Java Programming Language-I**

#### **Objectives:**

The Java Programming Language course is designed to provide students with a comprehensive understanding of the Java programming language and its application in software development. The course aims to equip students with the necessary skills to design, implement, and debug Java programs. Students will learn the fundamental concepts of object-oriented programming and gain hands-on experience in developing Java applications. The main objectives of the course are as follows—

- Understand the basic concepts of Java programming language.
- Design and implement Java programs using object-oriented principles.
- Apply control structures, data types, and operators in Java programming.
- Use Arrays for data storage and manipulation.
- Apply packages to organize the group of classes, interfaces etc.

### **Learning Outcomes:**

By the end of the course, students will be able to:

- Design and implement Java programs that demonstrate a clear understanding of object-oriented programming principles.
- Apply control structures, data types, and operators effectively in Java programming to solve problems.
- Utilize arrays for efficient data storage, retrieval, and manipulation.
- Implement packages to organize classes and interfaces into a single unit.

## **MJ (Practical-3): RDBMS (SQL) and Java Programming-I Lab**

### **Objectives:**

The main objectives of the course are as follows–

- To know about the database requirements and determine the entities involved in the system and their relationship to one another.
- To know about the manipulation of database using SQL commands.
- To teach the students basics of JAVA programs and its execution.
- Use Arrays for data storage and manipulation.
- To organize classes and interfaces in to a single unit using packages.
- To make the students learn concepts Object Oriented Programming.

### **Learning Outcomes:**

After completion of this course, a student will be able to–

- Gain knowledge on how to use SQL for Creating, Modifying and Accessing tables in Database.
- Implement Order by and Group by clauses.
- Use Java compiler and other platform to write and execute java program.
- Utilize arrays for efficient data storage, retrieval, and manipulation.
- Understand and Apply Object oriented features and Java concepts.

## **MJ–6 (Theory): Java Programming Language-II**

## **Objectives:**

The Java Programming Language course is designed to provide students with a comprehensive understanding of the Java programming language and its application in software development. The course aims to equip students with the necessary skills to design, implement, and debug Java programs. The main objectives of the course are as follows–

- Understand the concept of multithreading and its advantages and learn how to create and manage threads in Java.
- Explore different file handling techniques, such as byte and character streams.
- Explore the Java Collection Framework and its key interfaces and classes.
- Explore Java's Swing and JavaFX libraries for GUI development.
- Learn how to establish database connections and manage connections.

## **Learning Outcomes:**

By the end of the course, students will be able to:

- Create and manage concurrent threads in Java applications.
- Perform read and write operations on text and binary files.
- Apply collection framework concepts to solve real-world problems.
- Develop interactive applications with responsive user interfaces.
- Develop robust database-driven Java applications.

## **MJ–7 (Theory): Operating System – I**

### **Objectives:**

The objective of this course is to introduce the students to a layer of software called the Operating Systems, whose job is to manage all the devices of a computer system and provide user programs with a simple interface to the hardware. This paper will familiarize the students with the concepts of process management, process synchronization, and the potential problem of deadlocks.

### **Learning Outcomes:**

- After completion of this course, a student will be able to–
- Understand the basic working process of an operating system.
- Understand the importance of process and scheduling.
- Understand the issues in deadlock.

## **MJ–8: Software Engineering**

### **Objectives:**

This course helps students to understand the software development process and design. It also helps the students to understand about the different stages of software development, various process models and software engineering principles.

- The main objectives of the course are as follows–
- To provide students an in depth understanding of software engineering principles.
- To prepare the students to develop the skills necessary to handle software projects.
- To make the students aware of the importance of software engineering principles in designing software projects.

- To make students familiar with cost estimation and testing measurement in software development process.

### **Course Outcomes:**

- At the end of the course, students will be able to–
- Understand the importance of the stages in the software lifecycle.
- Understand the various process models.
- To design software by applying the software engineering principles.

## **MJ (Practical-4): Java Programming – II and Operating System – I Lab**

### **Objectives:**

The main objectives of the course are as follows–

- Understand the concept of multithreading and its advantages and learn how to create and manage threads in Java.
- Explore different file handling techniques, such as byte and character streams.
- Explore the Java Collection Framework and its key interfaces and classes.
- Explore Java's Swing and JavaFX libraries for GUI development.
- Learn how to establish database connections and manage connections.
- To make students familiar with the Microsoft Windows and Linux command–line environment. This course serves as a platform for the subsequent labs related to Process Management, Process Scheduling, etc.

### **Learning Outcomes:**

After completion of this course, a student will be able to–

- Create and manage concurrent threads in Java applications.
- Perform read and write operations on text and binary files.
- Apply collection framework concepts to solve real-world problems.
- Develop interactive applications with responsive user interfaces.
- Develop robust database-driven Java applications.
- Apply Microsoft Windows and Unix/Linux operating system basic commands.
- Understand different Commands for process management in Microsoft Windows and Linux Operating System.



**U.G. VOCATIONAL PROGRAMME OF INFORMATION TECHNOLOGY  
KARIM CITY COLLEGE, JAMSHEDPUR**

**Program Specific Outcomes**

- 1) Students will be able to enhance the application of knowledge of theory subjects in diverse fields.
- 2) students can Develop language proficiency to handle corporate communication demands.
- 3) Students will able to understand, analyse and develop computer programs in the areas related to algorithm, web design and networking for efficient design of computer-based system.
- 4) students will be able to apply standard software engineering practices and strategies in software project development using open-source programming environment to deliver a quality of product for business success.
- 5) Student will able to know a variety of issues, latest trends in technology development and thereby launch new thoughts and solutions to existing problems.

**UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

**PO1:** Utilize mathematical, scientific, and computer principles to address intricate challenges. Recognize and evaluate issues within software applications across various domains such as coding, testing, and integration into industrial settings.

**PO2:** Effectively communicate through verbal and written means, both in face-to-face interactions and electronically, using language and literature to facilitate learning and enable accurate English usage within specific fields.

**PO3:** Choose and employ suitable methods, tools, and contemporary technologies, including predictive modeling, to address complex tasks while acknowledging their constraints.

**PO4:** Show compassionate social awareness and a commitment to equitable national progress, along with the capability to engage in civic activities, including volunteer work, with a well-informed understanding of pertinent issues.

**PO5:** Acknowledge diverse value systems, including your own, grasp the moral aspects of your choices, and take accountability for them.

**PO6:** Comprehend the challenges related to environmental context and sustainable development and illustrate their significance.

**PO7:** Recognize, define, assess research literature, and examine intricate issues, drawing well-founded conclusions by applying fundamental principles from mathematics, natural sciences, and computer sciences.

**PO8:** Show proficiency in software design and management principles and apply them to personal tasks, whether working independently, as part of a team, or leading a team. Utilize these principles in project management and within diverse collaborative settings.

**PO9:** Capacity to effectively collaborate within diverse teams, whether in a leadership role or as a contributing member, across various disciplines within a multidisciplinary environment.

**PO10:** Acknowledge the necessity for ongoing learning and possess the readiness and capability to pursue independent and lifelong education within the ever-evolving landscape of technological advancements, encompassing a wide array of contexts.

## PROGRAM SPECIFIC OUTCOMES

**PSO1:** Create, engineer, and verify software systems for a global network of computers to address real-world challenges.

**PSO2:** Undergraduate students will enhance national and societal development by applying their acquired expertise in technical, computing, and managerial abilities.

**PSO3:** Understanding data management systems such as data acquisition and big data, empowering students to tackle problems through data analytics methods like pattern recognition and knowledge discovery.

**PSO4:** Fundamental understanding of hardware and software techniques and tools to address real-world challenges and research and development issues, with a commitment to continuous learning throughout one's life.

## UG COURSE OUTCOMES (FYUGP)

### FIRST SEMESTER

<b>Course Title</b>	Problem Solving and Programming with C
<b>Course Code</b>	MJ-1
<b>Credits</b>	3
<b>Course Outcome</b>	<ul style="list-style-type: none"><li>➤ Choose the loops and decision-making statements to solve the problem.</li><li>➤ Implement different Operations on arrays.</li><li>➤ Use functions to solve the given problem.</li><li>➤ Understand pointers, structures and unions.</li><li>➤ Implement file Operations in C programming for a given application.</li></ul>

### SECOND SEMESTER

<b>Course Title</b>	Data Structures using C
<b>Course Code</b>	MJ-2
<b>Credits</b>	3
<b>Course Outcome</b>	<ul style="list-style-type: none"><li>➤ Understand the properties of various data structures.</li><li>➤ Identify the strength and weaknesses of different data structures.</li><li>➤ Design and employ appropriate data structures for solving computing Problems.</li><li>➤ Analyze and compare the efficiency of algorithms.</li></ul>

<b>Course Title</b>	Digital Electronics
<b>Course Code</b>	MJ-3
<b>Credits</b>	3
<b>Course Outcome</b>	<ul style="list-style-type: none"> <li>➤ Minimize the circuit diagrams by use of K-Map concepts and Boolean Algebra.</li> <li>➤ Analyse the outcome of the circuit designed.</li> <li>➤ Comprehend the digital design logic</li> <li>➤ Design and Analysis of a given digital circuit – combinational and sequential</li> <li>➤ Use Boolean simplification techniques to design a combinational hardware circuit</li> </ul>

### **THIRD SEMESTER**

<b>Course Title</b>	Data Base Management System
<b>Course Code</b>	MJ-4
<b>Credits</b>	3
<b>Course Outcome</b>	<ul style="list-style-type: none"> <li>➤ Design a database for a given set of requirements.</li> <li>➤ Use SQL.</li> <li>➤ Apply normalization techniques on given database. Improve the database design by normalization.</li> </ul>

<b>Course Title</b>	Object Oriented Programming through C++
<b>Course Code</b>	MJ-5
<b>Credits</b>	3
<b>Course Outcome</b>	<ul style="list-style-type: none"> <li>➤ Understand properties of OOPS.</li> <li>➤ Learn the use of constructor and destructor.</li> <li>➤ Understand file management</li> </ul>

**THE VOCATIONAL UNDER GRADUATE DEPARTMENT  
OF MASS COMMUNICATION  
KARIM CITY COLLEGE, JAMSHEDPUR**

**Programme Outcome of M.A. in Mass communication**

Upon completion of the course the students should be able to establish themselves as industry savvy professionals in the field of media, communication, social work as well as academics.

**Programme Goals**

To provide the students with in-depth knowledge and broad practical training in various fields of media and communication so that they can establish themselves as successful media professionals, researchers, teachers and start ups in the field of communication

**Programme Objectives**

- To provide the students with a complete , systematic and deep knowledge of the theories of communication
- To give them a sound practical knowledge of the technologies involved in the field and also the techniques of good results
- To take care of their all-round development through on job trainings, workshops and various academic and field activities
  - To make them aware of the job prospects and also the scenario in industry

**PROGRAMME SPECIFIC OUTCOME OF B.A. IN MASS COMMUNICATION  
(FYUGP)**

To provide the students with in-depth knowledge and broad practical training in various fields of media and communication so that they can establish themselves as successful media professionals. Also to instill in them a sense of social responsibility as they are responsible to the masses.

**Programme Objectives**

- To give them a sound practical knowledge of the technologies involved in the field and also the techniques of good results
- To take care of their all-round development through on job trainings, workshops and various academic and field activities
- To make them aware of the job prospects and also the scenario in industry

**Programme Outcome**

After completion of the course the students should be able to:

- Establish themselves as industry savvy professionals in the field of media, communication, social work
- Students willing to pursue higher studies are trained to apply in good reputed media institutes

<b>Course Outcome Semester</b>	<b>Course Name</b>	<b>Course Objectives</b>	<b>Course Outcomes</b>
<b>Semester - I</b>	MJ 1 -Communication and Media	The objective of this major paper/course is to familiarise students to the universe of communication and media	<input type="checkbox"/> To conceptualise communication, process, history, types and levels <input type="checkbox"/> To define mass

through concepts, models and theories. They must be able to understand the media ecology and how it functions.

communication from traditional to social media  
 To understand about the theories and models of communication  
 To learn Communication in relation with society at large

## Semester - II

MJ 2 -  
Print Journalism:  
Understanding News

The objective of this major paper/course is to make students responsible print journalists. It intends to make students conversant with nuances of news and the functioning of print Journalism.

To know about print media & types  
 To understand news and different journalistic writings  
 To learn to write news report  
 To know how to gather news through different sources

MJ 3 -  
Print Journalism: Reporting and

The objective of this major paper/course is to make students responsible print journalists. It intends to

To understand newsroom  
 To know the job responsibilities of working journalists  
 To learn and practice Reporting

# U.G. VOCATIONAL PROGRAMME OF BACHELOR MASS COMMUNICATION VIDEO PRODUCTION KARIM CITY COLLEGE, JAMSHEDPUR

## PG. COURSE OUTCOME

### 1) First Semester

#### ➤ Principles of communication

After completion of the course the students will have:

- A sound knowledge of various types of communication and their usage
- An insight of communication models
- A comprehensive knowledge of communication theories

#### ➤ Development of Media

After completion of the course the students will have:

- A complete knowledge about the evolution of different forms of communication
- An idea about the emergence of various types of media

#### ➤ Print media and Electronic media

After completion of the course the students will have:

- An idea about newspaper industry
- An idea about the functioning of electronic media

➤ **Advertising and Public relation**

After completion of the course the students will be able to:

- Work in the creative department of an advertising agency
- Work as Public Relation officers
- Work as publicity officers
- Work as corporate communication manager and Image manager for an organisation

## 2) Second Semester

➤ **Development communication and research**

After completion of the course the students will be able to:

- Work as communication officer in various government organisations and NGOs working for the welfare of public
- Carry research about communication

➤ **Media Laws and ethics**

After completion of the course the students will have:

- An insight of the existing media laws
- An idea of the various media organisations functioning in the country

➤ **International Communication**

After completion of the course the students will be able to:

- Work as communication officers in the agencies actively involved in shaping the international relation of the country
- Work as public relation officers in international organisations

➤ **Media Management**

After completion of the course the students will be able to:

- Take part actively in the dealings of time and space media industry
- Work as media planner for an advertising agency
- Run a media organisation as media managers

## 3) Third Semester

➤ **Print media**

After completion of the course the students will be able to:

- Work as reporters in newspaper industry
- Work as editors
- Use the software used in report writing and layout designing with good competency

➤ **Radio**

After completion of the course the students will be able to:

- Work actively in the field of audio production techniques
- Work as good anchors
- Write for radio properly

➤ **Television**

After completion of the course the students will have:

- An idea of television programming
- An insight of television production
- A proper vision of the job prospects of television industry

➤ **Corporate communication**

After completion of the course the students will be having:

- An idea of organisational communication
- Good Knowledge of theories of management
- An exposure of corporate philosophies

#### **4) Forth Semester**

➤ **New media application and Internet communication**

After completion of the course the students will be able to:

- Write and design contents for digital media
- Work on various technologies
- Have a clear idea of the scopes

➤ **Special Paper**

After completion of the course the students will have:

- A sound knowledge of the area of their specialisation, web journalism, gender studies, rural communication and environmental communication
- A practical knowledge of the technologies involved in the field to prove themselves as good professionals in industry

➤ **Dissertation**

After completion of the course the students will be able to:

- Carry research in the field
- Explore new areas/ideas/subject

➤ **Attachment**

In this section the students make a portfolio where they showcase their achievements and activities during the course. The portfolio includes:

- Reports of their internships, on job trainings, workshops, short term courses etc.
- Certificates of various co curricular activities
- Certificates of their participations in different events related to the field

## **UG VOCTAIONAL MASS COMMUNICATION COURSE OUTCOMES (FYUGP)**

### **Programme Goals**

To provide the students with in-depth knowledge and broad practical training in various fields of media and communication so that they can establish themselves as successful media professionals. Also to instill in them a sense of social responsibility as they are responsible to the masses.

### **Programme Objectives**

- To give them a sound practical knowledge of the technologies involved in the field and also the techniques of good results
- To take care of their all-round development through on job trainings, workshops and various academic and field activities
- To make them aware of the job prospects and also the scenario in industry

### **Programme Outcome**

After completion of the course the students should be able to:

- Establish themselves as industry savvy professionals in the field of media, communication, social work
- Students willing to pursue higher studies are trained to apply in good reputed media institutes

<b>Course Outcome</b>	<b>Course Name</b>	<b>Course Objectives</b>	<b>Course Outcomes</b>
<b>Semester - I</b>	MJ 1 -Communication and Media	The objective of this major paper/course is to familiarise students to the universe of communication and media through concepts, models and theories. They must be able to	<input type="checkbox"/> To conceptualise communication, process, history, types and levels <input type="checkbox"/> To define mass communication from traditional to social media



understand the media ecology and how it functions.

- To understand about the theories and models of communication
- To learn Communication in relation with society at large

## Semester - II

MJ 2 -  
Print Journalism:  
Understanding News

The objective of this major paper/course is to make students responsible print journalists. It intends to make students conversant with nuances of news and the functioning of print Journalism.

- To know about print media & types
- To understand news and different journalistic writings
- To learn to write news report
- To know how to gather news through different sources

MJ 3 -  
Print Journalism: Reporting and

The objective of this major paper/course is to make students responsible print journalists. It intends to

- To understand newsroom
- To know the job responsibilities of working journalists
- To learn and practice Reporting

**THE VOCATIONAL UNDER GRADUATE DEPARTMENT**  
**OF BUSINESS ADMINISTRATION**  
**KARIM CITY COLLEGE, JAMSHEDPUR**  
**UG PROGRAMME SPECIFIC OUTCOMES (FYUGP)**

<p><b>CRITICAL THINKING SKILLS:</b> At the end of the program, students are expected to think critically by identifying and evaluating assumptions, checking their accuracy and validity and examining ideas and decisions from multiple perspectives to make informed actions.</p>
<p><b>EFFECTIVE COMMUNICATION:</b> By the end of the program students are expected to possess good communication skills that are the corner stone of any successful verbal and written communication required for higher studies and jobs.</p>
<p><b>SOCIAL INTERACTION:</b> The program aims to develop student's understanding of their social and cultural context, promoting sensitivity towards gender, race, class and disability differences and fostering amicable interactions with each social entity.</p>
<p><b>COMMUNITY ENGAGEMENT:</b> By the end of the program students are expected to be continuously involved with their local community and contribute through their knowledge and skills towards the upliftment of the society and the country.</p>
<p><b>ETHICS:</b> At the end of the program students are expected to have high ethical standards in terms of their work, social structure, family, and their role responsibilities.</p>
<p><b>ENVIRONMENT AND SUSTAINABILITY:</b> By the end of the program students are expected to be aware of environmental issues and contribute towards sustainable development of locality, society and nation as a whole.</p>
<p><b>SELF-DIRECTED AND LIFE-LONG LEARNING:</b> At the end of the program students, should be mentally prepared to adapt to the changing socio-technological environment. They should be motivated to learn and contribute towards self, social and national development.</p>
<p><b>TEAMWORK:</b> By the end of the program students are expected to have an outstanding team skill which is much needed to create synergy in society and at the workplace.</p>
<p><b>BUSINESS KNOWLEDGE:</b> The students will have general idea of operations in business and the specialized skills to deal with selected domain.</p>
<p><b>EMPLOYABILITY:</b> By the end of the program students are expected to possess the necessary skills to become highly employable in the industry of their choice.</p>

**U.G. VOCATIONAL PROGRAMME OF BACHELOR OF BUSINESS  
ADMINISTRATION  
KARIM CITY COLLEGE, JAMSHEDPUR  
UG COURSE OUTCOMES (FYUGP)**

SEMESTER - II Sl. No	Course code	Course Name	Course Outcomes
1	MJ-2	Marketing Management	<p>At the end of the course, the student will be able to:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Understand the dynamics of marketing in business.</li> <li><input type="checkbox"/> Apply the theoretical marketing concepts to the practical situations.</li> <li><input type="checkbox"/> Demonstrate the ability to carry out a market research projects.</li> <li><input type="checkbox"/> To communicate unique marketing mixes and selling propositions for specific products.</li> <li><input type="checkbox"/> Construct written sales plans and professional interactive presentations.</li> <li><input type="checkbox"/> Employ the management techniques of planning, organizing, directing, and controlling of marketing functions and activities in response to the business needs of the organization.</li> <li><input type="checkbox"/> Apply the principles of business ethics and corporate social responsibility to business decisions</li> </ul> <p><b>Marketing Research</b> - the design, collection, analysis, and communication of information related to the marketing function of an organization.</p>
1	MJ-3	Human Resource Management	<p>At the end of the course, the student will have the:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Understand and apply Human Resource Management Perspective Understanding of The functions, systems, policies and applications of Human Resource Management in organizations.</li> <li><input type="checkbox"/> An overview of theoretical foundations of key areas associated with HR development in the organizations.</li> <li><input type="checkbox"/> HR skills and their ability to assess the constraints and opportunities associated with managing employees in different socio-economic and political context.</li> <li><input type="checkbox"/> Integrated perspective on role of HRM in modern business. Ability to plan human resources and implement techniques of job design.</li> <li><input type="checkbox"/> Rational design of compensation and salary</li> </ul>

administration.

Ability to train using various methods of Training.

Ability to appraise the Performance of the employees.

**P.G. DIPLOMA IN GUIDANCE AND COUNSELLING**  
**KARIM CITY COLLEGE, JAMSHEDPUR**  
**PROGRAMME SPECIFIC OUTCOMES**

1. explain the importance of school guidance services in terms of contemporary educational process. 1.1. relate between contemporary education and psychological counselling and guidance 1.2. explain the necessity of guidance services in schools based on examples. 1.3. comprehend the necessity of common guidance understanding in educational environment 1.4. explain essential principles and rules for school guidance services.

2. explain the legal regulations and the applications related to the existing guidance services in schools. 2.1. know the current legal regulations about the applications of school guidance services. 2.2. explain the current school guidance regulations in terms of the application. 2.3. report the applications related to the present school guidance services in elementary schools. 2.4. report the applications related to the current school guidance services in secondary or high schools.

3. implement the plans and applications needed for effective school guidance services 3.1. question the school guidance services in terms of various school grades 3.2. plan the school guidance services in terms of educational, vocational and personal-social aspects of the guidance services for various school grades. 3.3. implement the school guidance services in terms of educational, vocational and personal-social aspects of the guidance services for various school grades. 3.4. implement the applications of various tests and non-test techniques for various school grades. 3.5. implement the guidance services for families. 3.6. present suggestions for the effectiveness of school guidance services.

**COURSE OUTCOMES**

**Post graduate diploma in guidance and counselling will enable the students to:**

- Students would gain knowledge about theoretical principles and practical processes in Guidance and Counselling and would be able to apply these in research and professional areas.
- Students would gain understanding of the applied and positive perspectives of Guidance and Counselling.
- Students would gain proficiency in undertaking and reporting of psychological assessment and conducting guidance and counselling programs/sessions.
- Students would gain the requisite competencies and skills for providing Guidance and Counselling in varied spheres.
- Have the knowledge, personal attitudes and skills to provide effective guidance counseling and developmental services to clients diverse in age, gender and socioeconomic status
- Have a strong Identity as professional counsellors with a commitment to future development and possession of effective networking skills.

- Have the ability to go beyond providing individual services and have skills to lead teams of teaching professionals developing and providing a comprehensive set of services as needed by the client population.
- Have skills to advocate for student client issues and to foster productive organizational change.
- Have a vision of career planning as a developmental process and to provide individual guidance and counseling and skills training to facilitate decision-making and to work with developmental life transitions.
- Have the knowledge and skills to use, technology resources in professional practice and in research and to understand the application of ethical practice to use of assessment and information management tool
- Recognize the characteristics and quality of guidance and counselling services in preschools.
- Recognize the developmental characteristics and guidance needs of preschool students.
- Remember the competencies that preschool students need to be acquired.
- Comprehend how competencies can be acquired to students.
- Understand the areas and their characteristics that preschool students may need professional help.
- Make intervention plans for special cases that require help.
- Explain the roles of parents on preschool students.
- Explain the roles of teachers on preschool students.
- Remember the important subjects that need to be noticed on interviews with teachers and parents.
- Differentiate the guidance and counselling services at preschools and the other levels.

**THE FACULTY OF EDUCATION**  
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**B. Ed Program Specific Outcomes**

Specific outcomes for a Bachelor of Education (B.Ed) program can vary depending on the institution and specialization, but here are some general specific outcomes that such programs aim to achieve:

1. **Content Knowledge**: Graduates will demonstrate a deep understanding of the subject matter they intend to teach, including its foundational theories, concepts, and methodologies.
2. **Pedagogical Knowledge and Skills**: Ability to apply a variety of teaching methods, strategies, and instructional techniques effectively in diverse educational settings.
3. **Curriculum Design and Development**: Competence in designing, implementing, and evaluating curriculum plans that align with educational standards and meet the needs of diverse learners.
4. **Classroom Management**: Skills to create and maintain an inclusive and supportive learning environment, manage student behaviour effectively, and promote positive social interactions among students.
5. **Assessment and Evaluation**: Ability to design and use appropriate assessment strategies and tools to monitor student learning, provide constructive feedback, and guide instructional decisions.
6. **Technology Integration**: Proficiency in integrating educational technologies into teaching and learning activities to enhance student engagement and achievement.
7. **Diversity and Inclusion**: Understanding of diverse learner needs, cultural competencies, and inclusive practices to support the learning and development of all students.
8. **Professionalism and Ethics**: Knowledge of ethical guidelines and professional standards in education, and ability to demonstrate professionalism in interactions with students, colleagues, parents, and the community.
9. **Collaboration and Leadership**: Skills to collaborate effectively with colleagues, families, and community members, and to assume leadership roles within educational settings.
10. **Reflective Practice**: Capacity for self-reflection and ongoing professional development to continuously improve teaching practices and student learning outcomes.

*These specific outcomes ensure that B.Ed graduates are well-prepared to embark on successful teaching careers, equipped with the knowledge, skills, and dispositions necessary to meet the diverse needs of learners and contribute positively to educational communities.*