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2.6.1 - Course Outcome and Program Out come

Department Wise Programme and Course Outcome List

Bengali English History Political science Santali Anthropology Botany Zoology Chemistry

B. A. Honours in Bengali (CBCS)

PROGRAM SPECIFIC OUTCOME (PSO)

By the end of the UG Honours program in Bengali, students will:

- Gain in-depth knowledge of various genres of Bengali Literature.
- Solve grammatical problems proficiently.
- Develop creative writing skills.
- Acquire field survey experience.
- Write research-related articles for various journals.
- Develop the skills for individual and group publication.
- Cultivate an interest in journalism and theatre.
- Enhance performance in competitive exams such as SSC, NET, SET.



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COURSE OUTCOME (CO)

SEM I

CC-1: Bangla Vashar Udvab O Parichay

- Define and understand the characteristics of language.
- Explore the historical classification of languages.
- Identify the origin, history, and periodization of Bengali.
- Learn Bengali vocabulary, semantics, and semantic changes.
- Understand the classification of dialects.

CC-2: Bangla Sahityer Itihas (Prachin O Madhyayug)

- Understand the periodization of Bengali literature.
- Identify the characteristics of Medieval literature.
- Differentiate post-Chaitanya period.
- Explore 'Vaishnav' and 'Shakta' cultures.
- Classify Medieval literature.
- Understand the origin and history of 'charyagiti'.

GE-1: Bangla Vasar Bivinno Stor O Bangla Vasa Charcha

- Explore the geography of ancient Bengal.
- Understand the origins of the Bengali people.
- Appreciate the folk literature of Bengal.



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SEM II

CC-3: Prachin O Madhyayuger Padpath

- Learn the philosophical ideas of Buddhism.
- Understand the influence of 'Vaishnav Bhakti dharma' on Bengali literature.
- Differentiate Pre-Chaitanya and Post-Chaitanya Vaishnav Padabali.
- Explore the character of Vaishnav dharma and Shakta dharma.

CC-4: Chaitanya Jibani O Mangalkabaya Sahityapath

- Explore the life of Chaitanya dev.
- Understand the spread of Vaishnav dharma in Bengal.
- Analyze the structure and classification of Mangalkavya.
- Recognize the social impact of Chandimangal and Annadamangal.

GE-2: Kabya Sahityer Dhara O Vaishnab Padabali Path

- Understand the philosophy of poems.
- Learn the classification of poems.
- Appreciate medieval genres of Bengali literature.

SEM III

CC-5: Unish-Bish Sataker Prabandha, Kabyasahityer Itihas Ebong Akhayan Sahitya Path

• Differentiate Modern Bengali Literature and Mediaeval Bengali Literature.



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- Understand the origin and history of Bengali Prose.
- Analyze the development of Bengali Prose.
- Explore the role of essays in Bengali Literature.
- Understand the development of Poetry.

CC-6: Chhanda, Alankar O Nirbachita Kabita Path

- Learn about Prosody.
- Understand the importance of Prosody in creating poems.
- Explore the basic concepts of different Prosodies.
- Learn the classification of rhetoric.
- Solve rhetorical and prosodic problems.

CC-7: Prabandha Sahitya Path

- Understand the role of essays in Bengali Literature.
- Enhance creativity through essay writing.

GE-3: Uponyash O Chotogolpo Path

- Learn the classification of Novels.
- Understand the philosophy of authors.
- Relate between Novels and Short stories.
- Explore various Novels in Bengali Literature.
- Understand the evolution and history of the Novel.

SEC-1: Bangla Byakaran O Anubadtattwa



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- Understand the theory of translation.
- Learn grammatical evolution in Bengali Literature.

SEM IV

CC-8: Unish O Bish Shotoker Probondho O Kabyo Sahityer Itihas Ebong Akhyan Sahityo Path

- Understand the definition of Drama.
- Explore the social impact of Drama and theatre in Bengali literature.
- Delve into the History of the Bengali Novel.
- Learn about various types of novels and their characteristics.
- Examine the origin of the short story.

CC-9: Kabyaa Path

- Comprehend the philosophy of poems.
- Classify and relate poems and prose.
- Explore various poetry in Bengali Literature.

CC-10: Upanyas Path

- Learn the classification of novels.
- Understand the philosophy of the author.
- Relate between novels and short stories.
- Explore various novels in Bengali Literature.
- Study the evolution and history of the Bengali novel.



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GE-4: Bangla Giti-Sahitya, Shishu-Sahitya, O Ramyo Rachanar Dhara

- Acquaint with various Bengali lyrics across ages.
- Appreciate the impact of Bengali lyrics on Bengal's culture and society.
- Learn about literature for children.
- Appreciate Bengali belle lettres of the 19th century.

SEC-2: Bangla Bhasha O Sahitya Bishayak Prakalpa Rachana O Prakalpa Patra Upasthapana

- Develop project-making skills.
- Cultivate creative writing abilities.

SEM V

CC-11: Natya Path

- Learn the classification and structure of drama.
- Understand the origin and history of drama.
- Explore various dramas in Bengali Literature.
- Sketch the history of drama from its beginning to the 2nd half of the twentieth century.

CC-12: Kabyatatya, Paschatya Sahitya Samalochana O Sahityerrupriti

- Explore poetics.
- Understand the role of 'Dhwani' and 'Rasa' in Bengali Literature.
- Know the vision and idea of literary movements.

DSE-1: Sahitya Andolon Somalochona O Rupriti



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- Explore various literary movements.
- Understand different concepts of criticism in literature.
- Study various genres of Bengali literature.

DSE-2: Bangla Chhotogolpo, Bhramankahini O Goyendakahini Path

• Learn about various aspects of short stories, travel stories, and detective stories.

SEM VI

CC-13: Loksahitya

- Understand the basic concept of 'Lok'.
- Define elements related to Lok Sahitya.
- Learn the classification of Lok Sahitya.
- Conduct a field survey to collect Folk culture and literature.
- Differentiate between urban literature and folk culture.
- CC-14: Sanskrit, Engreji O Pratibeshi Sahityer Itihas
 - Explore the history of Sanskrit and English Literature.
 - Connect with Sanskrit and English Literature.
 - Relate to other states' regional Literature.

DSE-3: Godyo-Sahitya Path

- Learn the origins and development of Bengali prose in the 19th Century.
- Appreciate different genres of Bengali prose.

DSE-4: Rabindra-Sahitya Path



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- Appreciate and analyze various works of Rabindranath Tagore.
- Form ideas about the philosophy of Rabindranath Tagore.
- Understand the theory of translation between literature.

B. A General in Bengali (CBCS)

PROGRAM SPECIFIC OUTCOME (PSO)

Upon completion of the UG General program in Bengali, students will:

- Gain an in-depth understanding of diverse genres within Bengali Literature.
- Solve grammatical problems proficiently.
- Develop skills in creative writing.
- Cultivate the ability for individual and group publication.
- Develop an interest in journalism and theatre.
- Pursue careers in government and business sectors requiring Bengali translation and interpretation skills.
- Seek employment in publishing houses as proofreaders, editors, and readers.

COURSE OUTCOME (CO)

SEM I

DSC-1A/2A Bangla Sahityer Itihas O Bangla Bhasatatwa

- Define and identify characteristics of the Bengali language.
- Understand the historical classification of the Bengali language.



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- Analyze the origin, history, and periodization of the Bengali language.
- Distinguish between language and dialect; classify and characterize various dialects.
- Explore the periodization and characteristics of Bengali literature, including Medieval literature.
- Differentiate between pre-Chaitanya and post-Chaitanya periods.
- Examine Vaishnav and Shakta cultures, and the origin and history of Charyagiti.

SEM II

DSC-1B/2B Kabya-Kabita

- Comprehend the philosophy of poetry.
- Classify and relate to different types of poems and prose in Bengali literature.

AECC Kobita O Chotogolpo

• Explore various poems and short stories in Bengali literature.

SEM III

DSC-1C/2C Bangla Katha Sahitya Natak O Prabandha

- Learn the classification and structure of drama.
- Understand the origin and history of drama.
- Explore various dramas in Bengali literature.
- Sketch the history of drama from its beginning to the second half of the twentieth century.



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- Recognize the role of essays in Bengali literature.
- SEC-1 Likhon Noipunnyo Briddhi
 - Learn various types of creative writing.

SEM IV

DSC-1D/2D Sahittyatattwa O Sahitya Nirmankala

- Understand poetics and the role of 'Dhwani' and 'Ros' in Bengali literature.
- Explore the vision and ideas of literary movements.
- Learn prosody and its importance in creating poetry.
- Study the classification of rhetoric and its application in Bengali literature.

SEC-2 Anubad Tattwa O Srijansil Rachana

- Develop creative writing skills.
- Learn translation theories and techniques from L1 to L2.

AECC Unish Sataker Bangla Prabandha O Loksahitya

- Understand the role of essays in Bengali literature.
- Differentiate between urban literature and folk culture.
- Conduct field surveys to collect folk culture and literature.

SEM V

DSE1A/2A Rabindranath

- Understand the philosophy of Rabindranath Tagore.
- Explore Rabindra Sahitya.



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- SEC-3 Saili, Kabya Saili Bichar, Gadya Saili Bichar O Natya Saili Bichar
- Learn literary styles and analyze stylistic differences in various literary genres.

GE-1 Sisusahitya O GoyendaKahiini

- Explore the history of Bengali Children's Literature.
- Study authors of Children's Literature.
- Gain knowledge about GoyendaKahini.

SEM VI

DSE1B/2B Upanyas O Chotogalpa

- Learn the classification of novels.
- Understand the philosophy of novel authors.
- Explore the relationship between novels and short stories.
- Examine various novels in Bengali literature.
- Understand the evolution, origin, and history of Bengali novels.

SEC-4 Bisaybhittik Alochona O Alochonapatra Upasthapan

- Write research-related articles for various journals.
- Develop skills for individual and group publication.
- Cultivate skills for project writing.

GE-2 Ekanko Natok O Goyenda Kahini

• Explore various one-act plays and detective stories in Bengali literature.



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• This revised format aims to improve readability and structure while maintaining the essential information

B.A. General in English

Program Specific Outcome(PSO)

The program helps the students gain an understanding of the evolution of language and culture implicit within the study of literature

· imparts a holistic notion of social responsibility and well

- · augments the critical thinking abilities of students.
- \cdot equips the students for competitive exams pertaining to professional courses and services.
- helps the students in learning skills for effective writing.

 \cdot introduces works written by and about Dalit and tribal communities and imparts knowledge in the domain of alternative aesthetics.

Course Outcome (CO)

SEMESTER: I

DSC-1A (CC-1) : Poetry & Short Story : Credits:06

Course Contents:

- 1. a) William Shakespeare: Sonnet 116
- b) William Wordsworth: "A Slumber Did My Spirit Seal."
- 2. a) John Keats "Bright Star"
- b) Wilfred Owen "Strange Meeting"



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- 3. Charles Lamb "Dream Children"
- 4. H. E. Bates "The Ox"

Course outcome:

After the completion of this course the students will be able to:

- 1. Understand key concepts of poems and short stories texts included in the syllabus.
- 2. Refer to relevant contemporary literary theories.
- 3. Demonstrate conceptual and textual understanding in exams
- 4. Prepare and present papers, and address the questions asked.
- 5. Contest in competitive examinations all levels.

SEMESTER: II

DSC-1B (CC-2): Essay, Drama & Novel : Credits:06

Course Contents:

- 1. George Orwell "Shooting an Elephant'
- 2. R. K. Narayan "A Library without Books"
- 3. George Bernard Shaw Arms and the Man SEMESTER:
- 4. J.B. Priestley: An Inspector Calls
- 5. Ernest Hemingway- The Old Man and the Sea.

Course Outcome:

After the completion of this course the students will be able to:



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1. Understand key concepts of 20th century fictional and non-fictional prose writings as well as drama included in the syllabus.

2. Account for the role of context(s) in the production, reception, and transmission of major literary works of this age

3. Prepare and present papers, and address the questions asked.

4. Demonstrate conceptual and textual understanding in exams

5. Contest in competitive examinations—written and interactive—related to teaching at all levels.

SEMESTER: III

DSC-1C (CC-3):: Contemporary India: women and empowerment Credits 06

Course Contents:

1. Social Construction of Gender:

- ·Masculinity, Femininity
- · Patriarchy
- · Sex & Gender
- ·Gender Socialization
- · Gender discrimination
- · Gender stereotyping

Texts: (any one) Nivedita Menon : Sexualities: Issues in Contemporary Indian Feminisms (selections) Nivedita Menon : Gender and Politics in India (Selections)

- 2. History of Women's Movements in India (Pre- and Post-Independence):
 - ·Women and Nationalism
 - · Women and Partition



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· Women and Political Participation

Text: (any two)

1. "Letters to a Wife: Satyendranath Tagore's Letters to Jynadanandini Tagore" from Epistolary Cultures in 19th century Bengal, StreeSamya, Kolkata,

2. Gholam Murshed "Chapter Four" from The Reluctant Debutante.

3. Urvashi Butalia 'Beginnings' from The Other Side of Silence

4. Jashodhara Bagchi and Shubharanjan Dasgupta. The Trauma and The Triumph: Gender and Partition in Eastern India, Vol I ("Introduction")

- 3. Women and Law:
- \cdot Women and the Indian Constitution
- · Personal Laws
- · Customary practices on inheritance and Marriage

Text: (Selections from any one text)

- 1. Flavia Agnes. Ed. Women and Law in India: An Omnibus Comprising
- 2. Flavia Agnes. Enslaved Daughters (selections).
- 3. Sudhir Chandra. Hindu Women and Marriage Law
- 4. Monomoyee Basu. Law and Gender Inequality.

4. Women and Violence:

- ·State interventions
- ·Domestic violence
- · Female foeticide



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· Sexual harassment

Texts: (any one)

1. Rokeya Sakhawat Hussain - Sultana's Dream

2. Bama Faustina Soosairaj - Karukku

Course outcome:

After the completion of this course the students will be able to:

1. Differentiate between sex and gender and how the latter is a social construction. 2. Trace the history of women's movements in India (Pre- and Post-Independence) and its textual representations.

3. Learn the laws prevalent in contemporary India for securing gender equity.

4. Gain knowledge of female foeticide, sexual harassment, domestic violence against women and state interventions to prevent these crimes.

5. Read and understand canonical texts written by such women writers as Rokeya Sakhawat Hussain and Bama Faustina Soosairaj.

SEMESTER: IV DSC-1D (CC-4):

Academic Writing and Composition: Credits 06

Course Contents:

1. Introduction to the Writing Process: Conventions of Academic Writing, Writing in one's own words – Summarizing and Paraphrasing

2. Critical Thinking: Syntheses, Analyses, and Evaluation

3. Structuring an Argument: Introduction, Interjection, and Conclusion

4. Citing Resources, Editing, Book and Media Review



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Course outcome:

After the completion of this course the students will be able to:

- 1. Know about various innovative ways of using English language.
- 2. Distinguish between summarizing and paraphrasing.
- 3. Learn how to cite resources after writing a research article.
- 4. Learn how to write book and media review.

5. Write clearly, effectively, and creatively, and adjust writing style appropriately to the content, the context, and nature of the subject.

6. Demonstrate conceptual and textual understanding in tests and exams.

DISIPLINE SPECIFIC ELECTIVE (DSE) DSE -1: British Literature Credits 06

Course Contents:

- 1. William Shakespeare As you Like It
- 2. Thomas Hardy- Ah, Are Digging on My Grave?
- 3. Robert Lynd- On Not Being a Philosopher

Course outcome:

After the completion of this course the students will be able to:

- 1. Understand key concepts of the texts included in the syllabus.
- 2. Demonstrate conceptual and textual understanding in tests and exams.
- 3. Prepare and present papers, and address the questions asked.

4. Contest in competitive examinations—written and interactive—related to teaching at all levels.



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Or DSE-1: Indian Literature in Translation Credits 06

Course Contents:

1. Rabindranath Tagore – The Wife's Letter (Translation of Steer Patra)

2. Vijay Tendulkar – Silence: The Court is in Session (Translation of Shantata: Court Chalu Ahe)

3. Mahasweta Devi- 'Draupadi'

Course outcome:

After the completion of this course the students will be able to:

1. Acquaint themselves with such Indian writers like Rabindranath Tagore, Vijay Tendulkar and Mahasweta Devi, and their writings in translated versions.

2. Appreciate the literary works included in the syllabus at varied levels of comprehension.

3. Prepare and present papers, and address the questions asked.

4. Contest in competitive examinations—written and interactive—related to teaching at all levels.

DSE2T: Partition Literature Credits 06

Course Contents:

1. Sa'adat Hasan Manto, 'Toba Tek Singh', in Black Margins: Manto, tr. M. Asaduddin (New Delhi: Katha, 2003) pp. 212–20. 2.

2. Jibananda Das, 'I Shall Return to This Bengal', tr. Sukanta Chaudhuri, in Modern Indian Literature (New Delhi: OUP, 2004) pp. 8–13.

Course outcome:



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

1. Read and understand the representative literary pieces of Partition Literature included in the syllabus.

2. Become acquainted with the spirit of the age as reflected through the texts included in the syllabus.

3. Account for the role of context(s) in the production, reception, and transmission of these literary works.

4. Prepare and present papers, and address the questions asked.

5. Contest in competitive examinations—written and interactive—related to teaching at all levels.

Or DSE-2: Nation, Culture and India Credits 06

Course Contents:

- 1. Amartya Sen "Secularism and its Discontents" (from The Argumentative Indian)
- 2. Rabindranath Tagore "Nationalism and India" (from Nationalism)

Course outcome:

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

1. Acquaint themselves with such Indian writers as Amartya Sen and Rabindranath Tagore, and their writings are included in the syllabus.

2. Account for the role of context(s) in the production, reception, and transmission of these literary works.

3. Prepare and present papers, and address the questions asked.

4. Contest in competitive examinations—written and interactive—related to teaching at all levels.



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SKILL ENHANCEMENT COURSE (SEC) SEC-1: Soft Skills Credits 02 Course Contents:

1. Teamwork

2. Emotional Intelligence

- 3. Adaptability
- 4. Leadership
- 5. Problem solving

Course outcome:

After the completion of this course the students will be able to:

1. Know the qualities needed for certain types of employment that do not depend on acquired knowledge: they include common sense, the ability to deal with people and positive flexible attitude.

2. Know about various innovative ways of using English language in verbal and nonverbal communications.

3. Write clearly, effectively, and creatively, and adjust writing style appropriately to the content, the context, and nature of the subject.

4. Gain knowledge of time management, teamwork and leadership traits.

Or SEC-1: Film Studies Credits 02

Course Contents:

1. Evolution of the Cinema: Silent Film, Talkie, Colour Film, Digital Age, 3D Films.

2. Response and Review: (Illustrative film shows & appreciation program to be arranged)

Course outcome:



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

- 1. Learn the history and evolution of the cinema and its various aspects.
- 2. Express concepts through writing.
- 3. Demonstrate conceptual and textual understanding in tests and exams.

SEC-2: Creative Writing Credits 02

Course Contents:

- Unit 1. What is Creative Writing?
- Unit 2. The Art and Craft of Writing
- Unit 3. Modes of Creative Writing
- Unit 4. Writing for the Media

Course outcome:

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

1. Gain knowledge of creative writing and its various modes

2. Know about various innovative ways of using English language to write a good original composition

3. Emerge as perspective writers

4. Demonstrate conceptual understanding in tests and exams

Or SEC-2: Technical Writing Credits 02

Course Contents:

1. Communication: Language and communication, differences between speech and writing, distinct features of speech, distinct features of writing.



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2. Writing Skills: Selection of topic, developmental, transitional and concluding paragraphs, descriptive, narrative, expository and argumentative writing.

3. Technical Writing: Formal and informal writings, formal writings/reports, letters, memorandum, notices, agenda, minutes, common errors to be avoided.

Course outcome: After the completion of this course the students will be able to: 1. Know about various innovative ways of using English language in verbal and nonverbal communications.

2. Write clearly, effectively, and creatively, and adjust writing style appropriately to the content, the context, and nature of the subject.

3. Emerge as perspective writers, editors, content developers, teachers etc.

4. Demonstrate conceptual and textual understanding in tests and exams

SEC-3: Translation Studies Credits 02

Course Contents:

1. Introducing Translation: A brief history and significance of translation in a multi lingual and multicultural society like India

2. Exercises in different Types/modes of translation: a. Semantic/Literal b. free sense/literaryc. Functional/communicative d. Transcreation.

3. Introducing basic concepts and terms used in Translation Studies through relevant tasks: Equivalence, Language variety, Dialect, Idiolect, Register, Style, Mode, and Code mixing/Switching.

4. Defining the process of translation (analysis, transference, restructuring) through critical examination of standard translated literary/non-literary texts.

Course outcome:

After the completion of this course the students will be able to:



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1. Communicate effectively with others

2. Know the theory, description, application and significance of translation in a multi linguistic and multicultural society like India.

3. Come to know different works that expand their knowledge.

4. Emerge as perspective writers, translators, editors, content developers, teachers etc.

Or SEC-3: English Language Teaching Credits 02

Course Contents:

- 1. Knowing the Learner Or 1. Structures of the English Language
- 2. Methods of teaching English Language
- 3. Assessing Language Skills
- 4. Materials for Language Teaching
- 5.Using Technology in Language Teaching

Course outcome:

After the completion of this course the students will be able to:

1. Know about various innovative ways of using English language in verbal and nonverbal communications.

2. Write clearly, effectively, and creatively, and adjust writing style appropriately to the content, the context, and nature of the subject.

- 3. Think about the relation between language and literature
- 4. Emerge as perspective writers, editors, content developers, teachers etc.
- 5. Demonstrate conceptual and textual understanding in tests and exams



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SEC-4: Business Communications Credits 02

Course Contents:

- 1. Introduction to the Essentials of Business Communication: Theory and Practice
- 2. Writing a project report
- 3. Citing References, using bibliographical and research tools
- 4. Writing minutes of meetings
- 5. E-Correspondence
- 6. Making oral presentations (Viva for internal assessment)
- 7. Spoken English for Business Communication (Viva for internal assessment)

Course outcome:

After the completion of this course the students will be able to:

1. Know about various innovative ways of using English language in verbal and nonverbal communications.

2. Write clearly, effectively, and creatively, and adjust writing style appropriately to the content, the context, and nature of the subject.

- 3. Speak English fluently
- 4. Demonstrate conceptual understanding in tests and exams

Or SEC-4: Spoken English Credits 02

Course Contents:



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1. Differences between speech and writing – distinct features of Oral Communication; Essentials of Good Communication- Barriers

2. Listening: Weak Forms, Stress, Intonation, Voice Modulation, Telephonic Conversation, Rules of Interruption in Civilized discourse

3. Speech & Situation/ Context: a. Greeting & Leave Taking b. Making & Granting/Refusing Requests c. Queries & Giving Information/Direction d. Describing objects/process e. Narrating events & Commentary f. Persuasion & Motivation g. Complaints & Apologies h. Expressing disapproval i. Alerting & Warning

4. Presentation Skills: Interview, Debate, GD, Anchoring, Public Address, Broadcasting (Intensive learner-centric pedagogic mode and use of Language Lab are desirable for making the course successful. Having explained the preliminaries of each course content, teachers may put a group of learners in a particular situation of conversation and monitor their conversation/ use of language as facilitators.)

Course outcome:

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

1. Distinguish between speech and writing.

2. Know the distinct features of oral communication and the essentials of good communication.

3. Learn presentation skills such as interview, debate, anchoring, public address and broadcasting.

4. Speak English fluently in different contexts.

5. Communicate effectively with others.

6. Demonstrate conceptual understanding in tests and exams.

Generic Elective (GE) [Interdisciplinary for other departments]



At.-Telipukur : P.O.- Tilaboni Mahisamura : P.S.- Keshiary Dist- Paschim Medinipur : PIN-721135 www.ggdckeshiary.ac.in

GE-1: Gender & Human Rights Credits 06

Course Contents:

1. Poetry: Meena Kandasamy "Aggression" TemsulaAo "Laburnum for My Head"

2. Drama: Manjula Padmanabhan Lights Out

3. Essay: Virginia Woolf "Professions for Women", Women's Rights are Human Rights. Section V "The Human Rights Framework in Practice"

Course outcome:

After the completion of this course the students will be able to:

1. Acquaint themselves with such women writers as Meena Kandasamy, TemsulaAo, Manjula Padmanabhan and Virginia Woolf.

2. Appreciate the literary works included in the syllabus at varied levels of comprehension.

3. Prepare and present papers, and address the questions asked.

4. Contest in competitive examinations—written and interactive—related to teaching at all levels.

Or GE-1: Contemporary India: Women and Empowerment Credits 06

Course Contents:

1. Social Construction of Gender (Masculinity and Feminity) Patriarchy

2. History of Women's Movements in India (Pre-independence, post-independence) Women, Nationalism, Partition Women and Political Participation

3. Women and Law Women and the Indian Constitution Personal Laws (Customary practices on inheritance and Marriage) (Supplemented by workshop on legal awareness)



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4. Women and Environment State interventions, Domestic violence, Female foeticide, sexual harassment Female Voices: Sultana's Dream Dalit Discourse:

Course outcome:

After the completion of this course the students will be able to:

1. Differentiate between sex and gender and how the latter is a social construction.

2. Trace the history of women's movements in India (Pre- and Post-Independence) and its textual representations.

3. Learn the laws prevalent in contemporary India for securing gender equity.

4. Gain knowledge of female foeticide, sexual harassment, domestic violence against women and state interventions to prevent these crimes.

5. Read and understand Sultana's Dream written by RokeyaSakhawat Hussain.

Or GE-1: Academic Writing and Composition Credits 06

Course Contents:

- 1. Introduction to the Writing Process
- 2. Introduction to the Conventions of Academic Writing
- 3. Writing in one's own words: Summarizing and Paraphrasing
- 4. Critical Thinking: Syntheses, Analyses, and Evaluation
- 5. Structuring an Argument: Introduction, Interjection, and Conclusion
- 6. Citing Resources; Editing, Book and Media Review

Course outcome:

After the completion of this course the students will be able to:



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- 1. Know about various innovative ways of using English language.
- 2. Distinguish between summarizing and paraphrasing.

3. Learn how to cite resources after writing a research article.

4. Learn how to write a book and media review.

5. Write clearly, effectively, and creatively, and adjust your writing style appropriately to the content, context, and nature of the subject.

6. Demonstrate conceptual and textual understanding in tests and exams.

GE-2: Environment & Literature Credits 06

Course Contents:

Introduction (Nature in Oriental & Western Thought, Deep Ecology, Third World Environmentalism)

- 1. Gordon J. L. Ramel. 'Daffodils No More'
- 2. Mahasweta Devi. 'Pterodactyl'
- 3. Ruskin Bond. 'Dust on the Mountains'

Course outcome:

After the completion of this course the students will be able to:

1. Gain a coherent knowledge and a critical understanding of eco literature and its key historical, cultural and theoretical developments.

2. Critically evaluate arguments and assumptions about eco literature and various modes of interpretation.

3. Acquaint themselves with such eco conscious writers as Gordon J. L. Ramel, Mahasweta Devi and Ruskin Bond, and their writings included in the syllabus.



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- 4. Express concepts through writing.
- 5. Demonstrate conceptual and textual understanding in tests and exams.

Or GE-2: Novel and Prose Credits 06

Course Contents:

- 1. Charles Dickens: Oliver Twist
- 2. R.K.Narayan: A Library without Books
- 3. Guy de Maupassant: My Uncle Jules

Course outcome:

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

1. Acquaint themselves with such writers as Charles Dickens, R.K.Narayan and Guy de Maupassant, and their writings included in the syllabus.

2. Understand key concepts of fictional and non-fictional prose writings as included in the syllabus.

3. Account for the role of context(s) in the production, reception, and transmission of these texts.

4. Address the questions asked.

5. Demonstrate conceptual and textual understanding in exams

6. Contest in competitive examinations—written and interactive—related to teaching at all levels.

Or GE-2: Language and Linguistics Credits 06

Course Contents:



At.-Telipukur : P.O.- Tilaboni Mahisamura : P.S.- Keshiary Dist- Paschim Medinipur : PIN-721135 www.ggdckeshiary.ac.in

1. Language: language and communication; language varieties: standard and nonstandard language; language change.

2. Phonetics: Overview of Articulatory Phonetics. The Consonants of English. The Vowel Sounds of English

3. Phonology and Phonetic Transcription: The Phonology of English. Transcription of Consonants. Transcription of Vowels

4. Syntax and semantics: categories and constituents of phrase structure; (Noun Ph

& Verbal).

Course outcome:

After the completion of this course the students will be able to:

1. Know about various innovative ways of using English language in verbal and nonverbal communications.

2. Gain a coherent knowledge about phonology of English, transcription of vowels and consonants, and categories and constituents of phrase structure.

3. Demonstrate conceptual understanding in tests and exams.

AECC-CORE (AECC-Core) [Language-Core]

[AECC- Core] English -1 CL-1(English):

British Poetry -1 Credits 06

1.Shakespeare: Shall 1 Compare Thee to a Summer's Day, John Donne – Batter my Heart Milton: On His Blindness Pope: Ode on Solitude

2. William Blake: A Poison Tree Wordsworth: To the Skylark Shelley: To a Skylark Keats: Ode to Autumn



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3. Rhetoric and Prosody

Course outcome:

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

1. Acquaint themselves with such British poets as Shakespeare, John Donne, Milton, Pope, William Blake, Wordsworth, Shelley and Keats, and their poems included in the syllabus.

2. Gain a coherent knowledge about various figures of speech and their usage in the poems included in the syllabus.

- 3. Learn how to scan a poem.
- 4. Demonstrate conceptual understanding in tests and exams.

Or CL-1(English): Language, Variety and Stylistics Credits 06

1. Language & Communication – distinctness of human language

2. Language varieties - Standard & Non-standard Language, Formal & Informal

3. Difference between Declarative and Expressive forms of language – when Statement becomes Expression

4. Register, Collocation and Style

Course outcome:

After the completion of this course the students will be able to:

1. Know about various innovative ways of using English language in verbal and nonverbal communications.

2. Gain a comprehensive knowledge of distinctness of human language, varieties of language, difference between declarative and expressive forms of language and stylistics in linguistics.



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3. Demonstrate conceptual understanding in tests and exams.

CL-2(English): Poetry - 2 Credits 06

Course Contents:

1. Alfred L.Tennyson : Break Break Break,

2. Robert Browning: Porphyria's Lover

3. T.S.Eliot: Preludes

4. W.B. Yeats: The Lake Isles of Innisfree

Course outcome:

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

1. Acquaint themselves with such Victorian poets as, Alfred Tennyson and Robert Browning, and their poems included in the syllabus.

2. Become acquainted with the spirit of the Victorian age as reflected through such poetic texts as Alfred Tennyson's Break Break Break and Robert Browning's Porphyria's Lover.

3. Understand the avant-garde forms of literary expression and their departures from earlier forms of representation.

4. Develop an understanding of the various forms of critique of modernity that evolved in England and other parts of Europe in the 20th century.

5. Gain awareness of new disciplines/areas of inquiry that decisively influenced European art and literature in the 20th century.

6. Acquaint themselves with such modern poets as, T.S.Eliot and W.B. Yeats, and their poems included in the syllabus.

7. Engage analytically with existing criticism and interpretations of 19th and 20th century poetry.



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8. Express concepts through writing.

9. Demonstrate conceptual and textual understanding in tests and exams.

10. Contest in competitive examinations—written and interactive—related to teaching at all levels.

Or CL-2(English): Language, Imagination & Creativity Credits 06

Course Contents: Language, Imagination & Creativity

1. Plain Language and Figurative Language (Related Tropes like Metaphor, Conceit, Metonymy)

2. Language and Emotion – Hyperbole, Pathetic Fallacy, Irony, Understatement

3. Escape from Banality – Foregrounding devices like Parallelism & Deviation

4. Avoiding/ Cultivating Ambiguity – Ambiguity: Weakness or Strength

Course outcome:

After the completion of this course the students will be able to:

1. Develop an understanding of various figures of speech included in the syllabus and their usage in creative writing.

2. Demonstrate conceptual understanding in tests and exams.

3. Contest in competitive examinations—written and interactive—related to teaching at all levels.

B. A. Honours In English

Program Specific Outcomes



At.-Telipukur : P.O.- Tilaboni Mahisamura : P.S.- Keshiary Dist- Paschim Medinipur : PIN-721135 www.ggdckeshiary.ac.in

1. The program helps the students gain an understanding of the evolution of language and culture implicit within the study of literature

2. Imparts a holistic notion of social responsibility and well

3. Augments the critical thinking abilities of students.

4. Equips the students for competitive exams pertaining to professional courses and services.

5. Helps the students in learning skills for effective writing.

6. Introduces works written by and about Dalit and tribal communities and imparts knowledge in the domain of alternative aesthetics.

SEMESTER: I

CC-1: British Poetry and Drama: Beginning to 14th Century and History of English Language (6 credits)

Course Contents:

Group: A (History of Literature)

- Old English poetry and prose
- Beowulf
- Chaucer: The Wife of Bath's Prologue Group: B (Philology)
- Influences: Greek, Latin, Scandinavian, French

Course outcome:

After the completion of this course the students will be able to:

1. Understand key concepts of old and medieval poems included in the syllabus



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2. Become acquainted with the spirit of the old and middle ages as reflected through certain poetic texts.

3. Account for the role of context(s) in the production, reception, and transmission of major literary works during the old and middle ages

4. Engage analytically with existing criticism and interpretations of old and middle English poetry, and work independently on practical as well as theoretical problems of literary analysis and interpretation

5. Know the process of beginning and growth of English language

6. Analyse a wide range of problems relating to literary and historical scholarship

CC-2: British Poetry and Drama: Renaissance to 17th and 18th Centuries (6 credits)

Course Contents:

Poetry:

- Edmund Spenser: Sonnet LXXV "One day I wrote her name"
- William Shakespeare: Sonnet 130 "My mistress' eyes are nothing like the sun"
- John Donne: 'Good Morrow'
- Milton: Paradise Lost Book-I
- Pope: Rape of the Lock (3 cantos)

Play:

- Christopher Marlowe: Edward II
- William Shakespeare: Macbeth

Literary terms related to poetry and drama:



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Allegory, Ballad, Blank-Verse, Heroic Couplet, Bathos, Comedy, Dramatic Monologue, Elegy, Image, Ode, Carpe-diem, Soliloquy, Symbol, Tragedy, Catharsis, Hamartia, Three Unities, Anagnorisis, Antagonist, Chorus, Denouement, Comic-relief, Aside, Anti-Hero,Catastrophe

Course outcome:

After the completion of this course the students will be able to:

- 1. Understand key concepts of poems and drama-texts included in the syllabus.
- 2. Learn some important literary terms related to poetry and drama
- 3. Refer to relevant contemporary literary theories.
- 4. Demonstrate conceptual and textual understanding in tests and exams
- 5. Prepare and present papers, and address the questions asked.
- 6. Contest in competitive examinations—written and interactive—related to teaching at all levels.

SEMESTER: II

CC-3: British Literature (fiction and non-fiction): 18th Century Credits 06

Course Contents:

Play: • William Congreve: The Way of the World

Prose:

- Jonathan Swift:Gulliver's Travels (Books III and IV)
- Addison and Steele: 'Sir Roger at Church'
- Laurence Sterne: The Life and Opinions of Tristram Shandy, Gentleman

Learning outcome:



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After the completion of this course the students will be able to:

1. Understand key concepts of 18th-century fictional and non-fictional prose writings as well as drama included in the syllabus.

2. Account for the role of context(s) in the production, reception, and transmission ofmajor literary works of this age

3. Prepare and present papers, and address the questions asked.

4. Express Concepts through Writing

5. Demonstrate conceptual and textual understanding in tests and exams

6. Contest in competitive examinations—written and interactive—related to teaching at all levels.

CC-4: British Romantic Literature (1798-1832) (6 credits)

Course Contents:

Poetry:

- William Blake: 'The Lamb', 'The Tyger'
- William Wordsworth: 'Tintern Abbey'
- Samuel Taylor Coleridge: 'Christabel' Part-1
- Percy Bysshe Shelley: 'Ozymandias'
- John Keats: 'Ode to a Nightingale'

Novel:

- Mary Shelley: Frankenstein
- Jane Austen: Pride and Prejudice



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Course outcome:

After the completion of this course the students will be able to:

1. Gain knowledge of the representative texts of Romantic poetry and fiction included in the syllabus.

2. Become acquainted with the spirit of the Romantic age.

3. Account for the role of context(s) in the production, reception, and transmission of major literary works of the Romantic age.

4. Engage analytically with existing criticism and interpretations of Romantic poetry and fiction, and work independently on practical as well as theoretical problems of literary analysis and interpretation.

5. Analyse a wide range of problems relating to literary and historical scholarship

SEMESTER: III

CC-5: British Literature: 19th Century (1832-1900) (6 credits)

Course Contents:

Poetry:

- Alfred Tennyson: 'Ulysses'
- Robert Browning: 'My Last Duchess', 'The Last Ride Together'
- Mathew Arnold: 'Dover Beach'

Novel:

• Charles Dickens: Hard Times

Course outcome:

After the completion of this course the students will be able to:



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1. Gain knowledge of representative texts of Victorian poetry and fiction.

2. Become acquainted with the spirit of the Victorian age as reflected through certain poetic texts.

3. Account for the role of context(s) in the production, reception, and transmission of major literary works of the Victorian age.

4. Engage analytically with existing criticism and interpretations of 19th-century poetry and fiction and work independently on practical as well as theoretical problems of literary analysis and interpretation

5. Analyse a wide range of problems relating to literary and historical scholarship

CC-6: British Literature: The Early 20th Century (6 credits)

Course Contents:

Poetry:

• W.B. Yeats: 'The Second Coming', 'The Wild Swans at Coole'

• T.S. Eliot 'The Love Song of J. Alfred Prufrock'

Fiction:

• Joseph Conrad: The Secret Sharer • Katherine Mansfield: 'The Fly'

Course outcome:

After the completion of this course the students will be able to:

1. Know about the meaning and scope of the concepts of the Modern/Modernity/Modernism.

2. Develop an understanding of the various forms of critique of modernity that evolved in England (and Europe) in the course of the 20th century



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3. Study and interpret representative writings of the 20th century.

4. Acquaint themselves with the great tradition of modern European fiction.

5. Examine various literary techniques that writers of 20th century used in their writings, and demonstrate an understanding of these techniques.

6. Reflect upon the great upheaval that the world has undergone during 20th century and the constructive role of literary activism/movements in restoring human values.

CC-7: American Literature (6 credits)

Course Contents:

Poetry:

- Robert Frost: 'The Road not Taken'
- Langston Hughes: 'Harlem to be Answered'
- Walt Whitman: 'O Captain, My Captain' Stories:
- Edgar Allan Poe: 'The Purloined Letter'

Novel:

- Mark Twain: The Adventures of Tom Sawyer Play:
- Tennessee Williams: A Streetcar Named Desire

Course outcome:

After the completion of this course the students will be able to:

- 1. Identify the salient features of representative literary texts of American Literature
- 2. Contextualize the production and reception of the literary texts included in the syllabus.



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3. Identify major theories related to literature and apply those theoretical approaches to awide range of texts within American Literature.

4. Locate, analyse and collate available secondary resources for researching a scholarlytopic within American Literature

5. Write papers that construct logical and informed arguments.

6. Prepare and deliver effective oral presentations and arguments.

SEMESTER: IV CC-8: European Classical Literature (6 credits)

Course Contents:

• Homer: The Iliad, tr. E.V. Rieu (Harmondsworth: Penguin, 1985)(Book I).

• Sophocles: Oedipus the King, tr. Robert Fagles in Sophocles: The Three Theban Plays(Harmondsworth: Penguin, 1984).

• Plautus: Pot of Gold, tr. E.F. Watling (Harmondsworth: Penguin, 1965).

• Ovid Selections from Metamorphoses 'Bacchus', (Book III), 'Pyramus and Thisbe' (BookIV), tr. Mary M. Innes (Harmondsworth: Penguin, 1975).

Course outcome:

After the completion of this course the students will be able to:

1. Read and understand the rich classical texts of Greco-Roman literature in translated versions.

2. Trace the nature of influence that all the classical texts have on modern English literature.

3. Appreciate these texts as a source of great wisdom.

4. Interpret these texts from contemporary points of view.

CC-9: Modern European Drama (6 credits)



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Course Contents: Drama

- Henrik Ibsen: Ghosts
- Bertolt Brecht: The Good Woman of Szechuan
- Samuel Beckett: Waiting for Godot

Course outcome:

After the completion of this course the students will be able to:

1. Acquaint themselves with the writers like Henrik Ibsen, Bertolt Brecht and Samuel Beckett and their writings.

2. Compare and contrast the writers from around the world and their unique styles.

3. Gain the ability to practically analyse any literary work by identifying different aspects of literature.

4. Interpret the text intensively and distinguish its salient features.

5. Appreciate the literary works at varied levels of comprehension.

6. Demonstrate the ability to use critical theories in literary evaluation.

CC-10: Popular Literature (6 credits)

Course Contents:

- Lewis Carroll: Through the Looking Glass
- Agatha Christie: The Murder of Roger Ackroyd
- Shyam Selvadurai: Funny Boy

• Sukumar Ray: AbolTabol (Translated by SukantaChowdhuri)/Autobiographical Notes on Ambedkar (For the Visually Challenged students)



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Course outcome:

After the completion of this course the students will be able to:

1. Know the meaning of Popular Literature and its distinct characters.

2. Read and understand the representative popular literary pieces included in the syllabus.

3. Understand how formulaic elements create the ideal world without limitations or uncertainties in readers' imagination.

4. Probe into the literary and aesthetic merits of popular fiction.

SEMESTER: V CC-11: Postcolonial Literature (6 credits)

Course Contents:

Poetry:

- Pablo Neruda: 'Tonight I can Write' 'The Way Spain Was'
- Derek Walcott: 'A Far Cry from Africa' 'Names'
- Mamang Dai: 'Small Towns and the River' 'The Voice of the Mountain'

Novel:

- Chinua Achebe: Things Fall Apart Stories:
- Bessie Head: 'The Collector of Treasures'
- Ama Ata Aidoo: 'The Girl who can'

Course outcome:

After the completion of this course the students will be able to:

1. Know how a literary text, explicitly or allegorically; represents various aspects of colonial oppression.



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- 2. Question how a text reveals the problematics of post-colonial identity.
- 3. Learn how a text reveals the politics and/or psychology of anti-colonialist resistance.
- 4. Trace the history of post-colonial movements in India and its textual representations.
- 5. Locate and represent subaltern voices through their own writings.
- CC-12: Women's Writing (6 credits)

Course Contents:

Poetry:

- Emily Dickinson: 'I cannot live with you', 'I'm wife; I've finished that'
- Sylvia Plath: 'Daddy'
- Eunice De Souza: 'Advice to Women'

Fiction:

- Mahashweta Devi 'Draupadi', tr. Gayatri ChakravortySpivak (Calcutta: Seagull, 2002)
- Toni Morrison: Beloved

Non-Fiction:

• Baby Kamble: Our Wretched Life

• Rassundari Debi Excerpts from Amar Jiban in Susie Tharu and K. Lalita, eds., Women's Writing in India, vol. 1 (New Delhi: OUP, 1989) pp. 191–2.

Course outcome:

After the completion of this course the students will be able to:

- 1. Learn how and on what grounds women's writings can be considered as a separate genre.
- 2. Read and understand canonical texts written by Women writers across different ages.



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3. Differentiate between sex and gender and how the latter is a social construction.

4. Be aware about the issues and concerns of the women writers of the developed, developing and under-developed countries.

SEMESTER: VI CC-13: Indian Classical Literature (6 credits)

Course Contents:

• Kalidasa. Abhijnana Shakuntalam, tr. Chandra Rajan, in Kalidasa: The Loom of Time(New Delhi: Penguin, 1989).

• Vyasa. 'The Dicing' and 'The Sequel to Dicing, 'The Book of the Assembly Hall', 'The Temptation of Karna', Book V 'The Book of Effort', in The Mahabharata: tr. and ed. J.A.B.van Buitenen (Chicago: Brill, 1975) pp. 106–69.

• Sudraka. Mrcchakatika, tr. M.M. Ramachandra Kale (New Delhi: MotilalBanarasidass,1962).

Course outcome:

After the completion of this course the students will be able to:

1. Read and understand the rich classical texts of Indian literature written in Sanskrit, in translated versions.

2. Trace the nature of influence that all the classical texts have on modern English literature both in British and Indian writings in English.

3. Appreciate these texts as a source of great wisdom.

4. Interpret these texts from contemporary points of view.

CC-14: Indian Writing in English (6 credits)

Course Contents:

Poetry:



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- H.L.V. Derozio: 'The Harp of India'
- Kamala Das: 'Introduction'
- Nissim Ezekiel: 'The Night of the Scorpion'

Fiction:

- R.K. Narayan: Swami and Friends
- Mulk Raj Anand: 'Two Lady Rams'
- Salman Rushdie: 'The Free Radio'

Drama:

• Girish Karnad: Tughlaq

Course outcome:

After the completion of this course the students will be able to:

1. Gain a comprehensive idea of the origin, growth and development of Indian Englishliterature

2. Account for the role of context(s) in the production, reception, and transmission ofmajor literary works of Indian Literature

- 3. Express Concepts through Writing
- 4. Demonstrate conceptual and textual understanding in tests and exams

Discipline Specific Electives (DSE) DSE-1: Nineteenth Century European Realism Credits 06

Course Contents:

• Fyodor Dostoyvesky: Crime and Punishment, tr. Jessie Coulson London: Norton, 1989).



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• Gustave Flaubert: Madame Bovary, tr. Geoffrey Wall (London: Penguin, 2002).

Learning outcome:

After the completion of this course the students will be able to:

1. Acquaint themselves to the writers like Fyodor Dostoyvesky and Gustave Flaubert and their writings in translated versions.

2. Compare and contrast the writers from around the world and their unique styles. 3. Gain the ability to practically analyse any literary work by identifying different aspects of literature.

- 4. Interpret the text intensively and distinguish its salient features.
- 5. Appreciate the literary works at varied levels of comprehension.
- 6. Demonstrate the ability to use critical theories in literary evaluation.
- DSE-2: World Literatures Credits 06

Course Contents:

- V.S. Naipaul: Bend in the River (London: Picador, 1979).
- Julio Cortazar: 'Blow-Up', in Blow-Up and other Stories (New York: Pantheon, 1985).
- Judith Wright: 'Bora Ring', in Collected Poems (Sydney: Angus & Robertson, 2002) p. 8.

Course outcome:

After the completion of this course the students will be able to:

- 1. Acquaint themselves to the writers like V.S. Naipaul and Julio Cortazar and their writings
- 2. Interpret the text intensively and distinguish its salient features.
- 3. Appreciate the literary works at varied levels of comprehension.



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4. Demonstrate the ability to use critical theories in literary evaluation.

DSE-3: Science Fiction and Detective Literature Credits 06

Course Contents:

- Wilkie Collins: The Woman in White
- Arthur Conan Doyle: The Hound of the Baskervilles

Course outcome:

After the completion of this course the students will be able to:

1. Know the meaning of science fiction and detective literature and their distinct characters.

2. Read and understand the representative literary pieces of science fiction and detective literature included in the syllabus.

3. Understand how formulaic elements create the ideal world without limitations or uncertainties in readers' imagination.

4. Probe into the literary and aesthetic merits of science fiction and detective literature.

OR DSE-3: Literature and Cinema Credits 06

Course Contents:

• William Shakespeare, Romeo and Juliet, and its adaptations: Romeo & Juliet (1968; dir. Franco Zeffirelli, Paramount); and Romeo + Juliet (1996; dir. Baz Luhrmann, 20th Century Fox).

• Bapsi Sidhwa, Ice Candy Man and its adaptation Earth (1998; dir. Deepa Mehta, Cracking the Earth Films Incorp.) • Amrita Pritam, Pinjar: The Skeleton and Other Stories, tr. Khushwant Singh (NewDelhi: Tara Press, 2009) and its adaptation: Pinjar (2003; dir. C.P. Dwivedi, LuckyStar Entertainment).



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After the completion of this course the students will be able to:

- Trace the nature of influence that literature has on cinema and vice versa
- Read and understand the literary pieces and their adaptations included in the syllabus
- Express Concepts through Writing
- Demonstrate conceptual and textual understanding in tests and exams

DSE - 4: Partition Literature Credits 06

Course Contents:

• Amitav Ghosh: The Shadow Lines.

• DibyenduPalit: 'Alam's Own House', tr. Sarika Chaudhuri, Bengal Partition Stories: AnUnclosed Chapter, ed. Bashabi Fraser (London: Anthem Press, 2008) pp. 453-72.

• Manik Bandhopadhya, 'The Final Solution', tr. Rani Ray, Mapmaking: Partition Storiesfrom Two Bengals, ed. DebjaniSengupta (New Delhi: Srishti, 2003) pp. 23–39.

• Sa'adatHasanManto, 'Toba Tek Singh', in Black Margins: Manto, tr. M. Asaduddin (NewDelhi: Katha, 2003) pp. 212–20.

• Jibanananda Das, 'I Shall Return to This Bengal', tr. Sukanta Chaudhuri, in Modern Indian Literature (New Delhi: OUP, 2004) pp. 8–13.

Course outcome:

After the completion of this course the students will be able to:

1. Gain knowledge of representative texts of Partition Literature included in the syllabus.

2. Become acquainted with the spirit of the age as reflected through the texts included in the syllabus.



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3. Account for the role of context(s) in the production, reception, and transmission of these literary works.

Or DSE - 4: Travel Writing Credits 06 Course Contents:

• Iban Batuta: 'The Court of Muhammad bin Tughlaq', Khuswant Singh's City Improbable:Writings on Delhi, Penguin Publisher

• Mark Twain: The Innocent Abroad (Chapter VII, VIII and IX) (Wordsworth ClassicEdition)

• William Dalrymple: City of Dijnn (Prologue, Chapters I and II) Penguin Books

• Rahul Sankrityayan: From Volga to Ganga (Translation by Victor Kierman) (Section I toSection II) Pilgrims Publishing

Course outcome:

After the completion of this course the students will be able to:

- 1. Read and understand the representative works of Travel Literature included in the syllabus.
- 2. Express Concepts through Writing
- 3. Demonstrate conceptual and textual understanding in tests and exams

Skill Enhancement Courses (SEC) SEC-1: English Language Teaching Credits 02

Course Contents:

- Knowing the Learner
- Structures of English Language
- Methods of Teaching English Language and Literature
- Materials for Language Teaching



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- Assessing Language Skills
- Using Technology in Language Teaching

Course outcome:

After the completion of this course the students will be able to: 1. Know about various innovative ways of using the English language in verbal and nonverbal communications.

2. Write clearly, effectively, and creatively, and adjust the writing style appropriate to the content, the context, and the nature of the subject.

3. Think about the relation between language and literature

4. Emerge as perspective writers, editors, content developers, teachers etc.

5. Demonstrate conceptual and textual understanding in tests and exams

Or SEC-1: Soft Skills Credits 02

Course Contents:

What is soft skill? Teamwork, Adaptability, Leadership, Problem solving, Development of Soft skills: Precis; Comprehension; Essays.

Course outcome:

After the completion of this course the students will be able to:

1.Know the qualities needed for certain types of employment that don't depend on acquired knowledge. They include common sense, the ability to deal with peoples , positive flexible attitude, etc.

2. Know about various innovative ways of using the English language in verbal and nonverbal communications.



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3. Write clearly, effectively, and creatively, and adjust writing style appropriately to the content, the context, and the nature of the subject.

4. Gain knowledge of time management, teamwork, and leadership traits.

Or SEC-1: Translation Studies Credits 02

Course Contents:

1. Introducing Translation: a brief history and significance of translation in a multi-linguistic and multicultural society like India.

2. Exercises in different Types / modes of translation, such as: a) Semantic / Literal translation b) Free / sense/ literary translation c) Functional / communicative translation

3. a) Introducing basic concepts and terms used in Translation Studies through relevant tasks, for example, Equivalence, Language variety, Dialect, Idiolect, Register, Style, Mode, Codemixing / Switching.

b) Translation in Practice. Resources for Practice: Dictionaries Encyclopedias Thesauri Glossaries Software of translation

Course outcome:

After the completion of this course the students will be able to:

1. Communicate effectively with others

2. Know the theory, description, application and significance of translation in a multilinguistic and multicultural society like India.

3. Come to know different works that expand their knowledge.

4. Emerge as perspective writers, translators, editors, content developers, teachers, etc.

SEC-2: Creative Writing Credits 02

Course Contents:



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Unit 1: What is Creative Writing?

Unit 2: The Art and Craft of Writing

- Unit 3: Modes of creative Writing
- Unit 4: Writing for the Media
- Unit 5: Preparing for Publication

Course outcome:

After the completion of this course the students will be able to:

1. Gain knowledge of creative writing and its various modes

2. Know about various innovative ways of using the English language to write a good original composition

- 3. Emerge as perspective writers
- 4. Demonstrate conceptual understanding in tests and exams

Or SEC-2: Business Communication Credits 02

Course Contents:

• Introduction to the essentials of Business Communication: Theory and practice

• Writing a project report

• Writing reports on field work/visits to industries, business concerns etc. /business negotiations.

- Summarizing annual report of companies
- E-correspondence
- Spoken English for business communication (Viva for internal assessment)



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Course outcome:

After the completion of this course the students will be able to:

1. Know about various innovative ways of using English language in verbal and nonverbal communications.

2. Write clearly, effectively, and creatively, and adjust writing style appropriately to the content, the context, and nature of the subject.

3. Speak English fluently 4. Demonstrate conceptual understanding in tests and exams

Or SEC-2: Technical Writing Credits 02

Course Contents:

1. Communication: Language and communication, distinct features of writing.

2. Writing Skills; Selection of topic, thesis statement, developing the thesis introductory, developmental, transitional and concluding paragraphs, linguistic unity, coherence and cohesion, descriptive, narrative, expository and argumentative writing.

3. Technical Writing: Scientific and technical subjects; formal and informal writings; formal writings/reports, handbooks, manuals, letters, memorandum, notices, agenda, minutes; common errors to be avoided.

Course outcome:

After the completion of this course the students will be able to:

1. Know about various innovative ways of using the English language in verbal and nonverbal communications.

2. Write clearly, effectively, and creatively, and adjust writing style appropriately to the content, the context, and the nature of the subject.

3. Emerge as perspective writers, editors, content developers, teachers, etc.



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4. Demonstrate conceptual and textual understanding in tests and exams.

B. A General program in History (CBCS)

Program Specific Outcome

After the completion of the UG General program in History, the students will understand various perspectives on civilizations, notions of liberty, equality and fraternity as a basis for modern democratic order.

Students will be able to analyse the political, social, economic and cultural aspects of a historical Understand and appreciate the forces of change and the forces of continuity in a given society.

Students can pursue his higher study in the field of Journalism, Public Relations. Go for a B.Ed. or MBA Compete in Government Services like WBCS, IAS, IPS, IFS, etc. or seek a career in the Travel and Tour sector.

Course Outcome

HISGCC01: Ancient India

Students will learn about the prehistoric times in the Indian subcontinent.

It will help them to learn about the ancient Indian political, social, economic, and cultural history.

They will understand that ancient Indian society was not static.

They will be able to appreciate the high culture of the classical age of ancient India.

They will understand that India was a multi-religious country even before the advent of Islam in the subcontinent.

HISGCC02: Medieval India



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Students will learn about the political history of the Sultanate and Mughal rule in India.

They will be able to appreciate the amalgamation of Indo - Persian culture of the medieval times.

Students will be able to analyze the socio- economic phases of the pre-modern states.

HISGCC03: Select themes in the Colonial impact on Indian Economy and Society Students will be able to analyze the character of British colonialism.

They will realize how India was economically drained by the British Empire.

They will be able to analyze how the Indians reacted to British rule and their ideology.

HISGCC04: Modern Nationalism in India

They will learn about the various approaches to the study of modern nationalism in India.

Student will be able to understand the different aspects of the colonial struggle in India.

HISGDS1A:

Renaissance and Reformation

Students will learn about the political, economic, and socio-cultural developments in premodern Europe. They will learn about the renewed interest in the works of Antiquity during the Renaissance and how it shaped the modern mind as well as the religious reformation in Europe.

They will become aware of the dangers of the persecuting spirit of religious enthusiasm.

Students will be aware about the development of national monarchies and modern states.

They will be able to trace the origins of the scientific revolution and its impact.

HISGDS1B: Modern Europe



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Students will come to know the meaning and impact of the Enlightenment. They will learn about the great Bourgeois Revolution in France in 1789 and the rise and fall of Napoleon.

They will be able to analyze the interplay of forces of change and forces of continuity in 19th Century Europe and the resultant liberal revolutions.

They will learn about the causes and process of industrialization in England and its differences from those in Europe.

They will be able to analyze the failure of international diplomacy and the causes of the 1st and 2nd World Wars, eventually realize the dangers of the totalitarian powers.

HISGSE01: The Making of Indian Foreign Policy

Students will acquire the knowledge on Making of Indian Foreign Policy .They will appreciate India's role as a non-aligned country in the International relations.

HISGSE02: Literature and History: Bengal

Students will learn the relations between History and Literature. They will be acquainted with the major Bengali novels that have historical bearings on 19th and 20 Centuries' society and politics.

HISGSE03: Colonial Science in India: Institutions and Practices

Students will understand how the spread of modern science under the colonial aegis help the colonial rulers to exploit the colony.

They will understand the sociological perspectives on modern science.

They will appreciate the contributions of the indigenous scientists to the development of national science

HISGSE04: Art appreciation an introduction to Indian art



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Students will learn about the essence of Indian Art They will be able to appreciate the aesthetic quality of new modern art and its relation with nationalism in Bengal They will understand and value the tradition of folk art in India.

HISGGE01: Theories of the Modern State

Students will get to know the origins of the modern state and its main features which will help them to appreciate the notions of liberty, equality and justice.

HISGGE02: Gender & Education in India

Students will understand the limited scope for women's education in the Ancient and Middle Ages. They will understand the background of colonial education in India.

They will understand the roles of different social reformers who contributed in this sector.

They will become aware of the limitations and obstacles to women's education to overcome.

HISGGE02: Some Perspectives on Women's Rights in India

Students will appreciate the struggle of women for securing their rights in India.

They will get to know various laws protecting women's rights in India and their impact on our society.

B.A. Honors program in HISTORY (CBCS)

Program Specific Outcome

After the completion of the UG Honours program in History, the students will be able to

- Students will be able to understand and political, social, economic and cultural aspects of human civilization.
- Appreciate the notions of liberty, equality and fraternity as a basis for modern democratic order.



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- Understand and appreciate the forces of change and the forces of continuity in a given society.
- Pursue higher study in History or archaeology or Museology and Public Administration or International Relations.
- Pursue his higher study in the field of Journalism, Public Relations.
- Compete in Government Services like WBCS, IAS, IPS, IFS etc. or seek a career in the Travel and Tour sector

Course Outcome

HISHCC01: Greek and Roman Historians:

Here students will know the different aspects of Greek and Roman Historiography as well as history as a part of social science which is essential to build their concept while studying history in a broader spectrum. They will be able to understand the scientific logic behind History writing and become able to differentiate between oral history based on myth and history based on documents with proof.

HISHCC02: Early Historic India (proto history to 6th century B.C):

The students of this department will have deep knowledge of the idea of Bharatavarsha .They will learn different theories and interpretations about the Indian past. They will have wide knowledge regarding literary and archaeological sources of ancient Indian history. The students of this department will be well informed about different stage of early civilization. They will learn the different aspects of Harrapan civilization, its formation and downfall. Students will learn the historiography of the concept of 'Aryan' .They will be aware about Political development, culture and rituals of Aryan culture North India in sixth century BCE. They will learn the formation of kingdom, clan and oligarchy. They will get brief knowledge about emergence of Magadha as an empire. Ideas and institutions in early India Students will get knowledge about the roots of caste system in India. Students will learn about the condition of women and society in the ancient past they will be aware of the different cults and their doctrines. Students also understand the economic changes in the ancient past and



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how the second urbanization took place. The students can develop their knowledge about ancient science, technology, language and literature.

HISHCC03: Mauryan and Gupta Empire

The students will get to know a brief history of the Magadha Empire, its formation and its downfall. They will learn the post-Maurya development in politics and society. Here also focused on the brief history of Empirical Guptas, their politics and culture.

HISHCC04: Political History of Early Medieval India (600 AD to 1200 AD)

Students will learn the sources of early Medieval history of India They will be aware of the regional culture in early medieval India .They will get a brief knowledge of early history of south India . They will also learn the feudal character of Indian polity. They will be taught how the political changes took place in late early medieval India. They will also be taught how a centralized military power like Cholas emerged as an empire.

HISHCC05: Delhi Sultanate

The students of our department will learn the sources of the history of the Delhi Sultanate. They will also get a brief knowledge on the socio-political, economic and cultural history of the Sultanate. They will be taught the regional state emerge as a political power in the then period. Students are also taught about the religion, society and culture of said period.

HISHCC06: The Feudal Society

The students of our department will learn the basic character of a Feudal Society. They will be taught the origins of Feudal Society in Europe. They will learn the socio-economic condition in Feudal Society. They will be taught how the cultural changes took place in Feudal Society.

HISHCC07: Akbar and the Making of Mughal India:



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The students will be taught the historiographical sources of Mughal India. They will learn the foundation and formation of Mughal India. They will learn the rural society and economy of Mughal India. They will also learn the religion and cultural dimension in Mughal India.

HISHCC08: Renaissance and Reformation:

They will learn about the renewed interest in the works of Antiquity during the Renaissance and how it shaped the modern mind as well as the religious reformation in Europe.

They will become aware of the dangers of the persecuting spirit of religious enthusiasm.

They will be able to trace the origins of the scientific revolution and its impact.

HISHCC09: The French Revolution & Napoleon Bonaparte:

They will learn about the great Bourgeois Revolution in France in 1789 and the rise and fall of Napoleon.

HISHCC10:19th Century Revolutions in Europe:

They will be able to analyze the interplay of forces of change and forces of continuity in 19th Century Europe and the resultant liberal revolutions.

They will learn about the causes and process of industrialization in England and its differences from those in Europe.

HISHCC11: Select Themes in the Colonial Impact on Indian Economy and Society:

The students are taught here the Colonial State institutions and ideologies. They will learn the colonial policies to extort the Indian economy. Students become aware of the different aspects of the different socio -cultural aspects of 19th century India.

HISHCC 12: Peasant and Tribal Uprisings in Colonial India in the 19th Century:



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Here the lectures are delivered on the early colonial rule and revenue operations, revenue demands and settlements which will help the students to learn how the tribal and peasant movement developed in early colonial period. They will learn the Peasant movements in late 19th century, conflict between landlords and tenants. We also take a look on the revolutionary potential of Indian peasantry.

HISHCC13: International Relations after the Second World War

The students will get to know various standpoints of International relations. They will appreciate India's role as a non-aligned country in the International relations. They will get to know different stages of Cold War and its aftermath. They will understand the intricacies and new challenges of the new world order since the fall of the Soviet power.

HISHCC14: Modern Nationalism in India :

Here we deal with the emergence of Nationalism in India and its historiography. The students will get a brief knowledge on Gandhian Mass Movements— Non-cooperation, Civil Disobedience, Quit India Movement. They will be taught the Roots of Communalism and Communal Award. They will be taught how the Pakistan demand took its root. They will learn the Partition and its Aftermath.

HISHDSE01: Modern Transformation of China (1839-1949):

Students of the department will learn Modern Transformation of China (1839-1949).

HISHDSE02: Modern Transformation of Japan

Students of the department will have comprehensive understanding of Modern Transformation of Japan.

HISHDSE03: The Russian Revolution: The Students of the department will learn about the nature and impact of the Russian revolution.

HISHDSE04: Pre-colonial South-East Asia:



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Students will learn history of Pre-colonial South East Asia. They will get to understand the closeness of the Indian civilization to the South-East Asian culture.

HISHSE01: Literature and History, Bengal :

Students will learn the relations between History and Literature. They will be acquainted with the major Bengali novels that have historical bearings on 19th and 20 Centuries society and politics. They will appreciate the different notions of nationalism and internationalism.

HISHSE02: The Making of Indian Foreign Policy :

Students will acquire the knowledge on Making of Indian Foreign Policy . They will appreciate India's role as a non-aligned country in the International relations.

HISHGE01: Theories of the Modern State .Students will get to know the origins of the modern state and its main features. They will appreciate the notions of liberty, equality and justice.

HISHGE02: Science and Empire :

Students will understand how the spread of modern science under the colonial aegis help the colonial rulers to exploit the colony. They will understand the sociological perspectives on modern science. They will appreciate the contributions of the indigenous scientists to the development of national science.

HISHGE03: Some Perspectives on Women's Rights in India

Students will appreciate the struggle of the women for securing their rights in India. They will get to know various laws protecting women's rights in India. They will understand the limitations of laws and form an opinion about what more can be done.

HISHGE04: Gender & Education in India

Students will understand the limited scope for women's education in the Ancient and Middle Ages. They will understand the background to and the reasons for the development girls' schools, women's colleges since the 19th century. They will appreciate the roles of the



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personalities like Bethune, Vidyasagar, RokeyaSakhawat in the sphere of women's education. They will become aware of the limitations and obstacles to women's education to overcome.

B. A. (Hons.) in Political Science

Program Specific Outcome

At the end of the entire UG course in Political Science, successfully passed out students will be able to

- Pursue higher studies in Political Science, Public Administration or International Relations, Gender Studies, Foreign Policy Studies
- Help the students aspiring for careers in civil services, teaching, journalism, masscommunications, etc. through competitive examinations.
- Develop a comprehensive view towards society, political economy, human rights, gender issues, feminism, terrorism, environmental politics and other such contemporary issues which are on the frontline nowadays.

B. A. (Hons.) in Political Science

COURSE OUTCOME

PLSHCC-1: Understanding Political Theory (CBCS)



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· Students will learn what is 'Politics' and how to Theorize the 'Political'.

• They will learn different traditions of political theory like Liberal, Marxist, Anarchist and Conservative.

· They will learn different Approaches to Political Theory like Normative, Historical and Empirical.

• They will learn Critical and Contemporary Perspectives in Political Theory like Feminist and Postmodern theory Political Theory and Practice: The Grammar of Democracy

 \cdot Students will be aware of the history of Democracy.

They will learn different types of democracy like (a) Procedural Democracy and its critique(b) Deliberative Democracy.

 \cdot They will acquire knowledge of different aspects regarding Participation and Representation.

PLSHCC-2: Constitutional Government and Democracy in India (CBCS)

Course Outcome:

 \cdot The students of this department will have deep knowledge of the Indian Constitution specifically: The Constituent Assembly, the Philosophy of the Constitution, the Preamble,

· They will learn different Features of the Constitution

• Most importantly, they will have wide knowledge regarding Fundamental Rights and Directive Principles given in the constitution of India. Organs of Government

• The students of this department will be well informed about different organs of the government like The Legislature: Parliament, The Executive: President and Prime Minister, The Judiciary: Supreme Court

• They will learn different aspects related to Indian Federalism like Federalism, Division of Powers, Emergency Provisions, Fifth and Sixth Schedules and the process of Decentralization in India through Panchayats and Municipalities



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GE-1: Nationalism in India

Course Outcome

PLSGGE01: Nationalism in India (CBCS)

• Students will learn different approaches to the study of Nationalism in India- Nationalist, Imperialist, Marxist, and Subaltern Interpretations

• They will also acquire knowledge about Reformism and Anti-Reformism in the Nineteenth Century Major Social and Religious Movements in the 19th century.

• Nationalist Politics and Expansion of its Social Base: Students will learn about different Phases of the Nationalist Movement: Liberal Constitutionalists, Swadeshi and the Radicals; the Beginning of Constitutionalism in India

- Students will be enriched with Mass Mobilisation by Gandhiji in the form of Non-Cooperation Movement, Civil Disobedience Movement, and Quit India Movement
- They will also be informed about Socialist Alternatives like Congress Socialists, Communists

• Students will learn about different Social Movements. 1) Participation of Women in the National Movement and its Impact 2) The Caste Question: Anti-Brahmanical Politics 3) Peasant, Tribals and Workers Movements

• They will acquire significant information on Communalism in Indian Politics and The Two-Nation Theory, Negotiations over Partition

PLSHCC-03: Political Theory-Concepts and Debates (CBCS)

Course Outcome:

• The students will acquire information about different Political Concepts and their importance. These concepts are Freedom - Negative Freedom: Liberty, Positive



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Freedom: Freedom as Emancipation and Development; and Important Issue: Freedom of belief, expression and dissent

- Equality Formal Equality: Equality of opportunity, Political Equality, Egalitarianism i.e. Background inequalities and differential treatment and Important Issues like Affirmative action
- Justice Procedural Justice, Distributive Justice, Global Justice and Important Issues related to justice like Capital punishment
- Rights Natural Rights, Moral and Legal Rights, Three Generations of Rights d. Rights and Obligations Important Issue: Rights of the Girl Child Section
- They will learn about Major Debates regarding the interrelation between state and individual rights

PLSHCC-04: Political Process in India (CBCS)

- Students of this department will have comprehensive knowledge of Indian Political Parties and the Party System,
- They will be able to identify the determinants of Voting Behaviour like Caste, Class, Gender and Religion.
- They will learn about different issues related to the political process in India such as Regional Aspirations, the Politics of Secession and Accommodation, Religion and political debates on Secularism; Minority and Majority Communalism, Caste and



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Politics Caste in Politics and the Politicization of Caste, Affirmative Action Policies Women, Caste and Class, The Changing Nature of the Indian State Developmental, Welfare and Coercive Dimensions

PLSGGE02: United Nations and Global Conflict (CBCS)

Course Outcome

Students will acquire significant knowledge on

• The United Nations, it's An Historical Overview (b) Principles and Objectives (c) Structures and Functions: General Assembly; Security Council, and Economic and Social Council; the International Court of Justice.

• They will be informed about specialised agencies like the International Labour Organisation [ILO], United Nations Educational, Scientific and Cultural

programs and funds: United Nations Children's Fund [UNICEF], United Nations Development Program [UNDP], United Nations Environment Program [UNEP], United Nations High Commissioner for Refugees [UNHCR])

• (d) Peace Keeping, Peace Making and Enforcement, Peace Building and Responsibility to Protect (e) Millennium Development Goals

• Major Global Conflicts since the Second World War (a) Korean War (b) Vietnam War (c) Afghanistan Wars (d) Balkans: Serbia and Bosnia

• They will be able to Assess the United Nations as an International Organisation and they will also be able to recommend necessary reforms to the UNO.

PLSHCC-05: Introduction to Comparative Government and Politics (CBCS)



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- The students of the Department of Political Science will have a comprehensive understanding of Comparative Politics, its Nature and its scope which will take them beyond Eurocentrism.
- They will know the Historical context of modern governments which includes Capitalism, globalization, Socialism, Colonialism, decolonization and anticolonialism struggles and the process of decolonization. They will study of comparatively the constitutional developments and political economy in the following countries: Britain, Brazil, Nigeria and China.

PLSHCC-06: Perspectives on Public Administration as a Discipline (CBCS)

- The department teaches its students, different theoretical and practical aspects of Public Administration Public administration as a discipline Meaning, Dimensions and Significance of the Discipline of Public and Private Administration, Evolution of Public Administration. Theoretical Perspectives Classical Theory
- They are informed about different Theories of Public Administration like Scientific management (F.W.Taylor) Administrative Management (Gullick, Urwick and Fayol) Ideal-type bureaucracy (Max Weber) Neo-classical theories. Neo-Classical Theory and Contemporary Theory.
- Human relations theory (Elton Mayo) Rational decision-making (Herbert Simon) Contemporary theories Ecological approach (Fred Riggs) Innovation and Entrepreneurship (Peter Drucker) Public Policy



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- They will learn Public policy, it's Concept, relevance and approaches Formulation, implementation and evaluation. Major Approaches
- They will learn Major approaches in public administration like New Public Administration, New Public Management, New Public Service Approach, Good Governance and Feminist Perspectives.

PLSHCC-07: Perspectives on International Relations and World History (CBCS)

- By studying International Relations, students will learn how to understand International Relations, Levels of Analysis History and IR: Emergence of the International State System
- They will have an idea of Pre-Westphalia, Westphalia and Post-Westphalia state systems.
- They will learn Theories of IR like Classical Realism and neo-realism, Liberalism and neo-liberalism, Marxist Approaches, Feminist Perspectives, Eurocentricism and Perspectives from the Global South.
- They will also get an overview of Twentieth Century IR History and learn about events like World War, the Bolshevik Revolution, the Rise of Fascism / Nazism, World War II, the Cold War, Emergence of the Third World, Collapse of the USSR and the End of the Cold War, Post Cold War Developments and Emergence of Other Power Centres of Power.



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PLSHCC-08: Political Processes and Institutions in Comparative Perspective (CBCS)

Course Outcome:

- Students will learn different Approaches to studying comparative Politics; these are Political Culture and New Institutionalism.
- They will gain knowledge of the Electoral System, its Definitions and procedures and Types of election systems such as First Past the Post, Proportional Representation, and Mixed Representation.
- Party System Historical contexts of the emergence of the party system and types of parties
- They will have an understanding of the Nation-state, its Historical evolution in Western Europe and postcolonial contexts of 'Nation' and 'State' debates.
- They will learn Democratization, the Process of democratization in postcolonial, postauthoritarian and post-communist countries
- They will learn about Federalism, the Historical context of Federation and Confederation: and debates around the territorial division of power.

PLSHCC-09: Public Policy and Administration in India (CBCS)



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- Students will know Public Policy, its Definition, characteristics and models, particularly the Public Policy Process in India
- They will learn the Meaning of Decentralization, its significance, approaches and types of decentralization, Local Self Governance: Rural and Urban
- They will learn the Concept and Significance of Budget, Budget Cycle in India
- They will know the process of Citizen and Administration Interface i.e. Public Service Delivery, Redressal of Public Grievances through RTI, Lokpal, Citizens' Charter and E-Governance.
- They will learn the Concept and Approaches of Social Welfare Administration, Social Welfare Policies in the sphere of Education (Right To Education), Health (National Health Mission), Food (Right To Food Security) Employment (MGNREGA)

PLSHCC-10: Global Politics (CBCS)

- Students will have an understanding of the Conception and alternative Perspectives of Globalization Debates on Sovereignty and Territoriality.
- They will learn about the Global Economy, Its Significance and Anchors like the IMF, World Bank, WTO, and TNCs.
- They will know globalization from the Cultural and Technological Dimensions.



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- They will acquire knowledge regarding Global Resistances (Global Social Movements and NGOs) and contemporary Global Issues a. Ecological Issues: Historical Overview of International Environmental Agreements, Climate Change, Global Commons Debate b. Proliferation of Nuclear Weapons c. International Terrorism: Non-State Actors and State Terrorism; Post 9/11 developments d. Migration e. Human Security.
- They will learn about Global Shifts in terms of Power and Governance.

PLSHCC-11: Classical Political Philosophy (CBCS)

- Students of the department will study texts of Plato and interpretations of his Philosophy and Politics, Theory of Forms, Justice, Philosopher King/Queen, and Communism Presentation theme: Critique of Democracy; Women and Guardianship, Censorship
- They will also study texts of Aristotle and interpretations of his ideas of Forms, Virtue, Citizenship, Justice, State and Household Presentation themes: Classification of governments; man as zoon politikon.
- They will learn the ideas of Machiavelli like, his ideas of Virtue, Religion, and Republicanism Presentation themes: morality and statecraft; vice and virtue



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- They will learn Possessive Individualism, Hobbes's ideas of Human nature, State of Nature, Social Contract and State Presentation themes: State of nature; social contract; Leviathan; atomistic individuals.
- Locke's idea Laws of Nature, Natural Rights, Property, Presentation themes: Natural rights; right to dissent; justification of property.

PLSHCC-12: Indian Political Thought-I (CBCS)

Course Outcome:

- Students of the department will learn Traditions of Pre-colonial Indian Political Thought like Brahmanic and Shramanic , Islamic and Syncretic.
- They will learn about Ved Vyasa (Shantiparva): Rajadharma, Manu: Social Laws, Kautilya: Theory of State, Aggannasutta (Digha Nikaya): Theory of kingship, Barani: Ideal Polity, Abul Fazal: Monarchy, Kabir: Syncretism

PLSHCC-13: Modern Political Philosophy (CBCS)

Course Outcome:

• Students of the department will learn about Modernity and its discourses, they will be introduced to the idea of modernity and the discourses around modernity.



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- They will learn Jean Jacques Rousseau, his ideas on the General Will; local or direct democracy; self-government; origin of inequality and Mary Wollstonecraft, her ideas on Women and paternalism; critique of Rousseau's idea of education; and legal rights.
- They will learn the thoughts of Liberal socialist John Stuart Mill's Presentation themes particularly his ideas on Liberty, suffrage and subjection of women, rights of minorities; and utility principle.
- They will learn the thoughts of Radicals like Karl Marx, particularly his ideas on Alienation; difference with other kinds of materialism; class struggle and Alexandra Kollontai, his ideas on Winged and wingless Eros; proletarian woman; socialization of housework; disagreement with Lenin.

PLSHCC-14: Indian Political Thought-II (CBCS)

Course Outcome:

- They will be introduced to Modern Indian Political Thought.
- They will learn the political thoughts of Rammohan Roy on rights, Pandita Ramabai: Gender, Vivekananda's ideal Society, Gandhi: on Swaraj, Ambedkar on social Justice, Tagore on critique of Nationalism, Iqbal on community, Savarkar: Hindutva, Nehru: Secularism, Lohia: Socialism.

PLSH DSE 01: India's Foreign Policy in a Globalising World (CBCS)



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 Students of the department will learn about India's Foreign Policy in a Globalizing World. India's Foreign Policy: From a Postcolonial State to an Aspiring Global Power II. India's Relations with the USA and USSR/Russia III. India's Engagements with China IV. India in South Asia: Debating Regional Strategies

PLSH DSE 02: United Nations and Global Conflicts (CBCS)

- Students will acquire significant knowledge of:-
- the United Nations and its historical Overview
- Its Principles and Objectives
- Its Structures and Functions: General Assembly; Security Council, Economic and Social Council; and the International Court of Justice. They will be informed about specialised agencies like the International Labour Organisation [ILO], the United Nations Educational, Scientific and Cultural Organisation [UNESCO], the World Health Organisation [WHO], and UN programs and funds: United Nations Children's Fund [UNICEF], United Nations Development Program [UNDP], United Nations Environment Program [UNEP], United Nations High Commissioner for Refugees [UNHCR])
- Peace Keeping, Peace Making and Enforcement, Peace Building and Responsibility to Protect and
- Millennium Development Goals of the UN
- Major Global Conflicts since the Second World War (a) Korean War (b) Vietnam War (c) Afghanistan Wars (d) Balkans: Serbia and Bosnia



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• They will be able to assess the United Nations as an International Organisation, they will also be able to recommend necessary reforms to the UNO.

PLSH DSE 03: Women, Power and Politics (CBCS)

Course Outcome:

• Students of the department will acquire knowledge of the Sex-Gender Debates, Public and Private, Power, Feminism, Family, Community, and State and Family, History of the Women's Movement in India, violence against women, visible and invisible work, reproductive and care work.

PLSHDSE 04: PROJECT WORK (CBCS)

PLSH SEC 01: Public Opinion and Survey Research (CBCS)

- Introduction to the course
- Students will be able to sharpen their skills in the public domain with their knowledge of public opinion, its conceptions and characteristics, its role in a democratic political system, uses for opinion polls.
- Measuring Public Opinion with Surveys:



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- They will learn a. What is sampling? Why do we need to sample? Sample design. b. Sampling error and non-response c. Types of sampling: Non-random sampling (quota, purposive and snowball Sampling); random sampling: simple and stratified
- Survey Research:
- They will learn different techniques of survey Research like a. Interviewing: Interview techniques pitfalls, different types of and forms of Interview b. Questionnaire: Question wording; fairness and clarity.
- IV. Quantitative Data Analysis
- Students will learn to use Quantitative Data Analysis, co-relational research, causation and prediction, descriptive and Inferential Statistics
- V. Interpreting polls: they will learn to interpret polls
- They will acquire skills for Prediction in polling research and also the possibilities and pitfalls associated with it.
- They will learn the Politics of interpreting polling.

PLSH SEC 02: Legislative Practice and Procedures (CBCS)



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Course Outcome:

- Students will be able to enhance their skills with the knowledge regarding Powers and functions of people's representatives at different tiers of governance Members of Parliament, State Legislative Assemblies, functionaries of rural and urban local selfgovernment from Zila Parishads/Municipal Corporations to Panchayat/Ward.
- They will learn how a Bill becomes a Law, the Role of the Standing Committee in reviewing a Bill, Legislative Consultations, amendments to a Bill, and the Training of Rules and Regulations.
- They will be aware of different types of committees, and the role of committees in reviewing government finances, policy, programs, and legislation.
- Students will enhance their skills in public affairs with the knowledge of the Budget Process, the Role of Parliament in reviewing the Union Budget and Railway Budget and the Examination of Demands for Grants of Ministries and working Ministries.
- Students will enhance their skills with their knowledge of the role of different types of media and their significance to legislators.
- They will also learn the basics of communication in print and electronic media.

B. A. (General) in Political Science



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Program Specific Outcome

At the end of the entire UG course in Political Science, successfully passed out students will be able to

- Pursue higher studies in Political Science, Public Administration or International Relations
- The Student will be able to pursue higher study in the field of Journalism, Public Relations.
- The Student will be able to compete with government services like WBCS, IAS, IPS, IFS etc.
- The Student will be able to pursue his/her career in the media houses.

PLSGCC01: Introduction to Political Theory (CBCS)

- · Students will learn what is 'Politics' and how to Theorize the 'Political'.
- · They will acquire knowledge of different ideas like
- · Liberty, Equality, Justice, Rights, Gender, Citizenship, Civil Society and State.
- \cdot Students will be aware of the history of Democracy.
- · They will learn about different types of democracy.
- They will be acquainted with the Debates in Political Theory.
- \cdot They will learn how much democracy is compatible with economic growth.
- · They will learn the grounds of censorship and what are its limits.
- \cdot They will learn if protective discrimination violates principles of fairness or not.
- · They will learn whether State intervention in the institution of the family is justified or not,



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PLSGCC02: - Indian Government and Politics (CBCS)

Course Outcome

• The students will learn different approaches used in the study of Indian Government and Politics. They will acquire a clear idea of the Indian state. Indian Constitution: basic features, debates on Fundamental Rights and Directive Principles

• The students of this department will have deep knowledge of the Indian Constitution: The Constituent Assembly, Philosophy of the Constitution, and the Preamble, They will learn different Features of the Constitution Most importantly, they will have wide knowledge regarding Fundamental Rights and Directive Principles given in the constitution of India. Institutional Functioning: Prime Minister, Parliament and Judiciary

• They will acquire knowledge of the executive and legislative parts of the Indian Government. Power Structure in India: Caste, class and patriarchy.

• Students of the Department will learn the importance of the caste system and the impact of classes on the Indian state. Religion and Politics: debates on secularism and communalism

 \cdot They will learn the importance of the values of secularism in the Indian state system and the negative impact of communalism on the diversity of the population of this country.

PLSGCC03: Comparative Government and Politics (CBCS)



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- The nature, scope and methods of comparative political analysis
- They will learn the method of studying Politics from a comparative perspective.
- Comparing Regimes: Authoritarian and Democratic
- Students will be able to distinguish between authoritarian and democratic forms of government.
- Classifications of political systems: a) Parliamentary and Presidential: UK and USA
 b) Federal and Unitary: Canada and China
- Students will be able to differentiate presidential and parliamentary systems as well as they will be able to distinguish the federal government from the unitary system.
- Electoral Systems: First past the post, proportional representation, mixed system
- They will be aware of the different electoral systems.
- Party Systems: one-party, two-party and multi-party systems
- They will acquire knowledge of different types of party Systems and their importance.
- Contemporary debates on the nature of state: From state centric security to human centric security and the changing nature of nation-state in the context of globalization.
- They will be able to understand the security system Indian state.



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• Students will understand the changing nature of Indian state under the impact of globalization.

PLSGCC04: Introduction to International Relations Course (CBCS)

Course Outcomes:

- Students will learn different approaches used in international relations like Classical Realism, Neo-Realism, Neo-Liberalism, World Systems Approach and Feminist Perspective
- They will learn about the Second World War & and various aspects of the Cold War and the Detente End of Cold War, the Collapse of the Soviet Union and the emergence of new power centres.
- Students will acquire knowledge of Indian foreign policy and India's commitment towards the Non-alignment movement.

PLSGDSC01A: Themes in Comparative Political Theory (CBCS)

Course Outcomes:

• Students will learn about the contributions of different Western and Indian political thinkers towards a few political values:



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- Aristotle to Citizenship,
- Locke to Rights,
- Rousseau to inequality,
- J. S. Mill to liberty and democracy,
- Marx and Bakunin to State,
- Kautilya to State,
- Tilak and Gandhi to Swaraj,
- Ambedkar and Lohia to Social Justice,
- Nehru and Jayaprakash Narayan to Democracy,
- PanditaRamabai to Patriarchy.

PLSGDSC01B: Administration and Public Policy: Concepts and Theories (CBCS)

- The department teaches its students, different theoretical and practical aspects of Public Administration Public administration as a discipline Meaning, Dimensions and Significance of the Discipline of Public and Private Administration, Evolution of Public Administration.
- They are informed about different Theories of Public Administration like Scientific management (F.W.Taylor) Administrative Management (Gullick, Urwick and Fayol) Ideal-type bureaucracy (Max Weber) Neo-classical theories.
- Understanding public policy:



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- They will learn Public policy; its Concept, relevance and approaches Formulation, implementation and evaluation.
- 4 They will learn Major approaches in public administration like New Public Administration, New Public Management, New Public Service Approach, Good Governance, and Feminist Perspectives.

PLSGSEC 03: Democratic Awareness with Legal Literacy (CBCS)

- Students will be enriched with the skills the knowledge of the Legal system in India
- System of courts/tribunals and their jurisdiction in India criminal and civil courts, writ jurisdiction, specialised courts such as juvenile courts, Mahila courts and tribunals.
- Role of the police and executive in criminal law administration.
- Alternate dispute mechanisms such as lok adalats, non-formal mechanism
- Students will be enriched with a brief understanding of the laws applicable in the India Constitution fundamental rights, fundamental duties, other constitutional right and their manner of enforcement, with emphasis on public interest litigation and the expansion of certain rights under Article 21 of the Constitution.
- Laws relating to criminal jurisdiction provision relating to filing an FIR, arrest, bail search and seizure and some understanding of the questions of evidence procedure in Cr. P.C. and related laws, important offences under the Indian Penal Code, offences against women, juvenile justice, prevention of atrocities on Scheduled Castes and Scheduled Tribes.



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- Concepts like the Burden of Proof, Presumption of Innocence, Principles of Natural Justice, and Fair comment under Contempt laws. Personal laws in India: Pluralism and Democracy Laws relating to contract, property and tenancy laws. Laws relating to dowry, sexual harassment and violence against women, Laws relating to consumer rights, Laws relating to cybercrimes, Anti-terrorist laws: implications for security and human rights, Practical application: Visit to either a (I) court or (ii) a legal aid centre set up by the Legal Services Authority or an NGO or (iii) a Lok Adalat, and to interview a litigant or person being counselled. Preparation of a case history.
- Access to courts and enforcement of rights
- Critical Understanding of the Functioning of the Legal System
- Legal Services Authorities Act and right to legal aid, ADR systems
- They will also learn what to do if they are arrested; if they are a consumer with a grievance; if they are a Victim of sexual harassment; domestic violence, child abuse, caste, ethnic and Religious

PLSGSE04: Conflict and Peace Building (CBCS) Course Outcomes:

- Students will learn different aspects of Conflict and Peace Building Including Conflict Management, Conflict Resolution and Conflict Transformation and Peace Building
- Students will learn different Dimensions of Conflict like ideology, Economic/Resource Sharing Conflicts, Socio-Cultural Conflicts (Ethnic, Religious, Gender-based)



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- They will be able to identify the Sites of Conflict i.e.: Local, Sub -National, International.
- Students will enhance their Skills and Techniques for conflict responses by using Negotiations for Trust Building, Mediation for Skill Building; Active Listening
- They will learn the use of Track I, Track II & and Multi-Track Diplomacy And also learn the Gandhian Methods of conflict resolution

PLSGGE01: Nationalism in India Course (CBCS)

- Students will learn different approaches to the study of Nationalism in India-Nationalist, Imperialist, Marxist, and Subaltern Interpretations
- They will also acquire knowledge about Reformism and Anti-Reformism in the Nineteenth Century Major Social and Religious Movements in 19th century.
- Nationalist Politics and Expansion of its Social Base: Students will learn about different Phases of the Nationalist Movement: Liberal Constitutionalists, Swadeshi and the Radicals; Beginning of Constitutionalism in India
- Students will be enriched with Mass Mobilisation by Gandhiji in the form of Non-Cooperation Movement, Civil Disobedience Movement, and Quit India Movement
- They will be informed about Socialist Alternatives like Congress Socialists, Communists



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- Students will learn about different Social Movements such as 1) the Participation of Women in the National Movement and its Impact 2) The Caste Question: Anti-Brahmanical Politics 3) Peasant, Tribals and Workers' Movements
- They will acquire significant information on Communalism in Indian Politics and The Two-Nation Theory, Negotiations over Partition

PLSGGE02: United Nations and Global Conflicts (CBCS)

- Students will acquire significant knowledge of the Principles and Objectives of the UNO
- Structures and Functions of different agencies of the UN: General Assembly; Security Council, Economic and Social Council; the International Court of Justice. They will be informed about specialised agencies like the International Labour Organisation [ILO], the United Nations Educational, Scientific and Cultural Organisation [UNESCO], the World Health Organisation [WHO], and UN programs and funds: United Nations Children's Fund [UNICEF], United Nations Development Program [UNDP], United Nations Environment Program [UNEP], United Nations High Commissioner for Refugees [UNHCR])
- Peace Keeping, Peace Making and Enforcement, Peace Building and Responsibility to Protect.
- Millennium Development Goals of the UNO
- Major Global Conflicts since the Second World War (a) Korean War (b) Vietnam War (c) Afghanistan Wars (d) Balkans: Serbia and Bosnia
- They will be able to assess the United Nations as an International Organisation, they will also be able to recommend necessary reforms to the UNO.



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B.A. General in Santali

Program Specific Outcome (PSO)

After the completion of the UG Program in Santali, the students will be:

- ୧୬୬୬ ଅ୬୬୫୬୬୯ ୦୬୭୬୦୦ ଅ୬. ୬୫୨୬୬. ୭୬ ୯୬୧୦୬୦୦ ଅ୬. ୬୯୬ ୬୬ ୧୬୬୦୬୦୬ ଜୁ୦୬୬ ଜୁ୦୬୬ ଜୁ୦୬୬ ଜୁ୦୬୬ ଜୁ୦୬୬ ଜୁ୦୬ ୬୬. ୬୬୬ ଜୁ୦୬୬ ଜୁ୦୬ ଜୁ୦୬ ଜୁ୦୬ ୬୬. ୬୬

Course Outcome (CO)



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SNTGCC1(DSC-1A) : History of Santali Literature

Outcomes:

- ୧୬୧୦୬୪୪ ୧୬୬୪୦୧୫ ୬୪୧୬ଟ ୧୬ଟ୬୳ ୫୪୦୬୧ ୮୬. ୮୬୨୬୬ ୭୬୬୬ଟ
 ୧୬. ୦୬୧ ୫୪୯୬୫ ୬୪୧୬ଟ ୧୬ଟ୬୬୬ ୧୦୬୯୬୬୬
- ୪୬୧୦୬27 ୪୬୬୦୦୧୫ ୬୧୧୬େ ୧୬୫ ୦୬୦ ୦୬୦୦ ୦୬. ୦୬୦୦ ୦୬.
 ୦୬ ୦୬୦୬୦ ୫୬୦୦୧୬୦- ୬,

- ୪୬୧୦୬23 ୪୬୬୪୦2ହ ୬୧୧୬େଜ ସ୬୦୬୬ଏ ଏ୬ଏ୬୦ ସ୬. ୬୫୯୧୬. ୭୬ ଏ୬ଏ୬୯ ହ୬୪୧୯୬ଜ-୬୦
- ୯୬୧୦୬23 ୯୬୬୦୦୧ ୫୧୦୬୧ ଏମ୯୬୧୬୬3 ୭୬୬୫୫ ୧୧୧୦ ୦୪୧୬୫ ଏ୧୧୬୫ ୬୭୬୬ ୬୧୬ ଏ୬ଏ୬୦ ୮୬. ମ୫୨୯୬. ୬. ଏମ ୮୨୯୮୬. ୬ ୦୧୭୬ ଏ୬ଏ୬୯ ୧୬ଏ ହ୬୪୧୯୬୫ ୬.

SNTGCC2 (DSC-1B): Santali Poetry Literature, Folk Song

- ୧୬୯୦୬୦୬ ବହରହଣଣ: ୧୬୬୪୦୧୫ ୦୬୯ ୦୫୭୯ ୧୦୦୫୯ ୬୦୬୯୬ ୬୬
 ୧୬୯୦୬୦୬ ବହରହଣଣ: ୧୬୬୪୦୧୫ ୦୬୯ ୦୫୯ ୧୦୬୯୬ ୬୬ ୬୬
- ୯୬୧୦୬23 ୬୧୬2 ୦୬୧୬. ୦୬୬୬୮ ୦୬୦୪ ୮୬. ୦୬୦୪ ୮୬. ୦୬୦୪ ୮୬.
 ୦୬ ୦୬୦୬୯ ହ୬୪୪ ୧୬୬



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- ୪୬୧୦୬୪୮, ୦୬୪ ୪୬୬୦୦୧ ୬୯୧୬ଟ ଏମହ ଏ୬୬୬୫ ୦୬. ୭୬୦ ୦୬୪ ୪୯୬୧୦ ଏ୬ଏ୬୦୦ ୨୭୬ ୪୭୬ ୮୬. ୭୬. ୭୬. ୭୬ ଏ୬ଏ୬୫ ୦୬ଏ ହ୬୪୯୧୬୫-୬୦

SNTGCC3(DSC1C): Drama Literature

Outcomes :

- କେଅଟଅଟ ୪୬୪୦୦୧୫ ୬୦୧ଅକ ୭୪. ୧୬. ୧୬୫୮ ୦୬୦୦୦ ୮୬. ୮୫୨୬୬. ୦୬ ୦୬୦୬୯ ୧୬୦୦ ୧୬୦୦ ୧୬୦
- ୧୬୯୦୬୪୮ କ୬୯୬୯ ୫୪୦୬୯ ୮୬. ୮୬୨୬୬. ୭୬୬୬୮ ୬. ୭୪୦୬୯ ୬. ୬୬୬୬୬୮ - ୬
- KWEOWAR GWGWE KWUUSCE SZC SCENCE RENCE RECOME RECOME
- ୪୬୯୦୬୪୮ କ୬୯୬୯ ୪୬୪୦୯ହ ୪୦୬ ୮୦୦୬ କ୬୦୬୯ ୦୦୯୦କ ୬୦୬୯୬ ୧୦୭୯୬୦୬୯୬୦ ୮୬. ୮୫୦୯୬. ୦୪ ୬. ୦୪୦ ୪୦୬ ୧୦୬ ୧୪୬୯୬ ୧୬

SNTGCC4(DSC1D) :Santali Novel and Short Story

- ୯୬୧୦୬3. କ୬୯୬୧ ୬୬ ୦୦୦/୨୦ ୦୬. ୦୧୮ ୦୬୧୦୬. ୭୬ ୬୦୬
 ୧୪୬୧୦୬3. ୧୬୯୬୯ ୪୭୬ ୦୬୦୬୦ ୦୬. ୦୬୦୬୯୬. ୦୬ ୦୬୦୬୯୬
 ୧୬୬. ୧୬୯୦୬ ୦୬.



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 କେମ ଏହା ଅନ୍ତର ଅନ୍ ଅନ୍ତର ଅନ୍

SNTGSEC01: Creative Writing

Outcomes:

- ୬୬୬ ୬୬ ୬୬.୬.୬.୬ ୧୬୩୦୦୦ ଅ୬.୬୫୦୬. ୭୬ ୧୬୦୬୦ ୧୬୦ ହ୬୦୦୧୦୬୦
- ୧୬୫୫୬୬୬୬ ୬୭ (Creative Writing)୬୪ ୧୬୦୮ ୦୬୦ ୦୬୦୦ ୬୫୬ ୦୬୦୪ ଘ୬. ମ୫୦୬୬. ୦୬ ୦୬୦୬୯ ୦୬୦ ହ୬୪୪ ୧୬୫୮ ୦୬୦

SNTGSEC02: Santali Language Teaching

Outcomes:

- ୧୬୧୦୬୪୦୪ ସ୬.୬୧୪ ୬୧୯୬େକ କେଅଧାରେ ୯୬୯୬୦ ସ୬. ୮୫୦୬୬. ୭୬ ୯୬୯୬୯୦୬୦୪ ସ୬. ୬୪୬ ୬୧୯୬କ କେଅଧାରେ ୯୬୯୬୦ ଅ୬. ୮୫୦୬୬. ୭୬

SNTGSEC03: History of Santali literature



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- ୧୦୦୦୫୧୮୬୦୯୧୯ ୬୧୯୬୮ ୮୬. ୧୬. ୬୪୬ ୦୬୦୫୦ ୮୬. ୮୫୨୬୬. ୭୬ ୦୬୦୬୯ ୧୬୦ ୧୬୪୦୧୯୬୮ ୬
- ୧୬୧୬ ଜଣ୍ଟ୬. ୬ ୧୯୦୫୧୮୬୦୦୧୯ ୮୬. ୮୫୨୬୬. ୭୫ ୯୬୯୬୯ ୧୬୯ ହ୬୦୧୯୬୮ ୬¹
- ୧୦୦୦୬୧୮୬୦୦୧୯୬୦ ୬୧୯୬୦ ୦୬୦୦୦ ୦୬. ୦୬୦୬୦୦ ୦୬. ୦୬ ୦୬୦୬୯୬୦ ୦୬୦ ୬୪. ୦୬ ୦୬୦୬୯୬୦ ୦୬୦ ୬୪. ୦୬

SNTGSEC04: Writing Skill

Outcomes:

SNTGDSE01: Functional grammar of Santali Language & Linguistic

- ୧୬୬୬ ୦୬୮୬୦୦ ୪୬୧୦୬୦୦ ୮୬. ୬୪୬ ୬୦୯୬୮ ୦୫୬୪ ୫୦୯ ୦୬ ୩୬୩୬୯ ହ୬୪୦୯୬୮ ୬



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SNTDSE02: Essay & Magazine Literature

Outcomes:

- WTR SCE WERE REAL CONCOURS CONCOURS REAL REAL SECURE CONCOURS CONCE THE STREET STRE

B.A. Honours in Santali

Program Specific Outcome (PSO)

After the completion of the UG Program in Santali, the students will be:

- ୧୬୬୬ ୮୬୬୫୮୬୬୦୦ ୮୬. ୮୫୬୬୬୮ ୦୬୬୬୮ ୦୬୬୬୮ ୦୬୬୬୮ ୦୬୦୬୮ ୦୬୦୬୬୮ ୦୬୬୬୫୮ ୦୬୦୬୬୫ ୦୬୦୬ ୬୬



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 をうごめ ひゃうら あい どめ、 0 6 めのこ B.ED, M.A., SSC, SET, NET, M.PHIL, PH.D,
 WBCS こいめを のスをえの 6 ちゃこ ひかど もめのこ むめ、 6 やえ いえんちを やこちち
 いろえめき ずめることがら‐め¹

Course Outcome (CO)

SNTHCC01: History of Santali Ancient Literature

Outcomes:

- ୧୬୬୬ ୪୬୦୬୯ ୮୬୪୯୬୬ ୦୬୦୪ ୮୬. ମନ୍ତରୁ ୯୬୯୦୬୪୪ ୯୬୯୦୬୪୬ ୯୬୯୦୬୪୬ ୯୬୯୦୬୪୬ ୯୬୯୦୬୪୬ ୯୬୯୦୬୪୬ ୯୬୯୦୬୪୬ ୯୬୯୦୬୪୬ ୯୬୯୬

SNTHCC02: Austric Language Family & Santali



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- ୧୬୬୬ ୪୬୦୬୯ ୦୬୧୬୦୦ ୮୬. ମନ୍ତ୍ର୬. ୦୬ ୬୦୬ ୧୦୦୬ ୧୮୬୮ ୮୬. ୬୪୮ ୬୦୯୬୮ ୧୬୯୦୬୦୮ ୮୬. ୭୪୮ ୬୦ ୯୦୬ ୬୦୬୯୬ ୬୯୬୦୬ ୧୬୯୦୬୯୬୯ ୧୬୯୦୬୦୦ ୮୬
- KNCONZA IN.) KA) Z CNG K5I5) IN.) KA UNUOO WO' 50

 UNUNC QNU PNZZ CNG- N'

SNTHCC03: Santali Folk Literature - 1

Outcomes:

- ୧୬୬୬ ୪୬୦୬୦୦୦୬୭୬୦୦୦ ଅ୬. ୩୫୦୬୬. ୭୬ ୭୦୫୦୦, ୦୦୫୦୬୦୫୬, ୦୫୧୦୬୭୬୦୫୬ ୦୬୦୬୦ ୬. ୦୪ ଜ୬. ୦୪୭ ୦୪୭୬୦, ୦୬୦୬୦ ୧୬୬୦୦୯୬୮୦ ୬.

SNTHCC04: History of Santali Literature (Medieval period: 1845 – 1947)

- ୧୬୬୬ ୪୬୦୬୯ ୦୬୧୬୦୦ ୮୬. ୮୫୬୬୬. ୭୬ ୦୬୯୬୯ ୪୬୬୯୦୬ ୬. ୧୬୬୬୦୬ ୬. ୧୬୬୬୦୬ ୬. ୧୬୬୬୦୬ ୬. ୧୬୬୬୦୬ ୬. ୧୬୬୬୦୬ ୬. ୧୬୬୬୦୬ ୬. ୧୬୬୬୬



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SNTHCC05: Functional Grammar of Santali Language

Outcomes:

- ୧୬୮୦୬୪୪ ୮୬. ୬୧୬ ୬୬୬୪୪ ୬୦୬୫୪ ୬୦୬୦୬ ୦୬ ୯୬୯୬୯ ୦୬୯ ୫୬୯୬ ୮୬. ୦୦୦ ଅଟ୍ଟରେ ୧୬ ୬୯୬ ୯୬୯୬୦ ୦୬ ୯୬୯୬୯ ୦୬୯ ୫୬୪୪୯୬୮ ୦୬୦୬୪ ୮୬.

SNTHCC06: Santali Folk Literature & Culture - 2

- ୧୬୦୬ ୧୬୦୬୦୦ ୦୬୧୬୦୦ ଘଡ଼. ୮୫୦୬୬. ୦୬ ୧୬୧୦୬୦୬୦ ୦୬୦୬୦
 ୧୬୧୦୬୦୬୦୦ ୦୬୦୬୦୦ ୦୬୦୬୦୦
- ତେ ଅଧିକର କରି ଅଭିନ୍ୟ କରି ଅଭିନ୍ୟ ଅଭିନ୍ୟ ଅଭିନ୍ୟ କରି ଅଭିନ୍ୟ ଅଭନ୍ୟ ଅଭିନ୍ୟ ଅଭନ୍ୟ ଅଭିନ୍ୟ ଅଭିନ୍ୟ ଅଭିନ୍ୟ ଅଭିନ୍ ଅଭିନ୍ୟ ଅଭନ୍ୟ ଅଭିନ୍ୟ ଅଭିନ୍ୟ ଅଭନ୍ୟ ଅଭନ୍ୟ ଅଭନ୍ୟ ଅଭିନ୍ୟ ଅଭନ୍ୟ ଅଭନ୍ୟ ଅଭନ୍ୟ ଅଭନ୍ୟ ଅଭନ୍ୟ ଅଭନ



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କଥ୍ୟ ଅନ୍ଥାରେ ଜଣ୍ଡ ପର୍ଭାଜଣ ହଣ୍ଡ ଅନ୍ଥ ଅନ୍ଥରେ ଅନ୍ମରେ ଅନ୍ମରମ୍ଭ କଥା କଥା ଅନ୍ମରା ଅନ୍ମର ଅନ୍ମରା ଅନ୍ମର ଅନ୍ମରା ଅନ୍ୟର

SNTHCC07: History of Santali Modern Literature

Outcomes:

- ହେରର (ମୁର୍ଜ୍ୟା କରୁଷ୍ଟ କରୁ ଅନ୍ୟାର୍କ୍ୟ କରୁ ଅନ୍ୟ ଅନ୍ୟାର୍କ୍ୟ କରୁ ଅନ୍ୟ କରୁ ଅନ୍ୟାର୍କ୍ୟ କରୁ ଅନ୍ୟ କରୁ ଅନ୍ୟ କରୁ ଅନ୍ୟାର୍କ୍ୟ କରୁ ଅନ୍ୟାର୍କ୍ୟ କରୁ ଅନ୍ୟ ଅନ୍ୟ କରୁ କରୁ ଅନ୍ୟ କରୁ କରୁ ଅନ୍ୟ କରୁ ଅନ୍ୟ କରୁ ଅନ୍ୟ କରୁ କରୁ କର ଅନ୍ୟ କରୁ କରୁ
- ସେରର୍ଭ ୮୬୦୬୯ ପ୍ରତ୍ୟ ଓ ଅନ୍ଥରେ ଅଭିନ ଅନ୍ଥରେ ଅନ୍ଥରେ ଅନ୍ଥରେ ଅନ୍ଥରେ ଅନ୍ଥରେ ଅଭିନ ଅନ୍ଥରେ ଅଭିନ ଅନ୍ଥରେ ଅନ୍

SNTHCC08: Santali Language & Linguistic

Outcomes:

- ୧୬୬୬ ୦୬**୮୬୦**୦୦ ଘଡ଼. ୬ ୪୬ ୪୬୯୦୪ ଏ୬ଏ୬୦ ୦୫ ଏ୬ଏ୬୯ ଦେ୬ଏ୬[,]
- ୧୬୧୬୬ ୦୬୧୬୦୦ ୧୬୧୦୬23 ଘଡ଼. ୬୪୬ ଘଡ଼. ୬୪୬ ୯୬୯୧୪ ନହନ
 ୦୬୦୧ ୨୩୫ ୦୬ ୦୬୦୬୯ ୧୬୯୬

SNTHCC09: Comparative Study Tribal Literature & Others



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- ୧୬୬୬ ୪୬୦୬୯ ୦୬୮୬୦୪ ୮୬. ୮୫୨୬୬. ୮୬ ୬. ହନଏ୬୪ନ ୮୬. ୬୪ନ ୬୬ ୪୬୬୦୪୧ ୮୬ ୯୬୦୬୯ ୦୬୯୬
- ୧୬୦୬ ୯୬୦୬୦୦ ୦୬୧୬୦୦ ୮୬. ୮୬୦୬୬୬. ୭୬ ୧୬୬୦୬୯୬
 ୧୬୦୬୦୬୦୦ ୦୬ ୯୬୯୦୬୦୬. ୭୬ ୧୬୬୦୦୦୦୬ ୯୬୯୬୦୬୦୦ ୦୬ ୯୬୦୬୦୦୦୬
- ୧୬୧୬୬ ୯୬୦୬୦୦ ୦୬୧୬୦୦୦ ୮୬. ୭୫୬୬୬. ୦୬ ୯୬୧୦୬୦୦ ୮୬. ୬୯୬ ୬୬ ୯୬୬୦୦୦୫ ୯୬୬ ୯୬୬୦୦୦ ୦୬୯୬୬, ୦୬୯୫୬, ୬୦୬୯୬୦୬୯୬ ୧୬ ୮୬. ୬୯୬ ୯୬୦୬୦୭୦୭୦୬୦୬୯୬୦ ୧୬୦୬୦୬.

SNTHCC10: Theory of Literature

Outcomes:

- $\mathsf{K}_{\mathsf{X}} = \mathsf{K}_{\mathsf{X}} =$
- ହେରର ନ୍ୟାଠୟା ୦୬b ଥା୦୦ ଅଥା ଅଟିରେଶ ଅନ୍ଥା ଅନ୍ୟା ଅନ୍ୟ ଅନ୍ୟା ଅନ୍ୟା ଅନ୍ୟା ଅନ୍ୟା ଅନ୍ୟା ଅନ୍ୟ ଅନ୍ୟା ଅନ୍ୟ ଅନ୍ୟା ଅନ୍ୟ ଅନ୍ୟା ଅନ୍ୟ ଅନ୍ୟା ଅନ୍ୟ ଅନ୍ୟା ଅନ୍ୟ ଅନ୍ୟା ଅନ ଅନ୍ୟା ଅନ୍ୟ

SNTHCC11: Novel & Short story



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- ୧୬୬୬ ୪୬୦୬୯ ୦୬୮୬୦୦ ୮୬. ୮୬୨୬୬. ୮୬ କୋଧର ୬ ୧୬୦୬୯ ୬୧୯୬୮ କେଥିଲେ 1

SNTHCC12: Poetry Literature

Outcomes:

- ତ କରୁ କରୁ ଅନ୍ୟରୁ ଅଣ୍ଟ ସର ଅନ୍ୟରଣ ହରୁ ଅନ୍ୟରଣ କରୁ ଅନ୍

SNTHCC13: Drama & Essay Literature

Outcomes:

- ୧୬୬୬ ୮୬୦୬୮ ୦୬୮୬୦୪ ୮୬. ୮୬୨୬୬. ୧୬ ୬୯୬୮ ୬୪୯୬୫ ୮୬୦୬୮ ୮୬୬୦୪ ୯୬୦୬୮ ୧୬୦୬ ୮୬୦୪ ୮୬.

SNTHCC14: Santali Magazine & Journal, Bengali Literature



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SNTHSEC01: Creative Writing

Outcomes:

- ୧ନୟରରର ୩ ୬୭ (Creative Writing)ର ଅଟମ୍ଭ ଜ ୩. ୧୩. ୧ ୩୭୩୦୦ ନହନ ୦୬୦୦ ୮୬. ମର୍ଚ ୧୬. ୦୬ ୩୬୩୦୭୧ ୨୬୦ ଅଟେ ୧୬.
- ୬୬୬୮ ୬୬ ୪୬.୬୬ ୯୬୯୬୦ ୮୬.୮୫୨୬୬. ୪୬ ୯୬୦୬୯ ୨୬୯ ହ୬୪୪୯୧୬ଜ-୬⊨
- ୧୬୫୫୬୬୬ ୬୭ (Creative Writing)୬୪ ୧୬୮୦ ୦୬୦ ୦୬୦୦ ୬୬୬ ୦୬୦୪ ଘ୬. ମ୫୦୬୬. ୦୬ ୦୬୦୬୯ ୦୬୦ ହ୬୪୪ ୧୬୬୪ ୧୬୬୦୪ ୧୬୦୪
- ଏନ୍ଦ୍ର ଅନ୍ମର୍ଭ ବନ୍ଦ୍ର ଅଭୁମହେର ଅକ୍ଟରା ଅକ୍ଟରା ସର ଜଣ୍ମହାମ୍ଭ ବର୍ଷ କ୍ଷୁସ୍ଟ୍ରାର୍ବ ଅନ୍ମର୍ଭ ବନ୍ଦ୍ର ଅଭୁମହେର ଅଭୁମହେର ଅଭୁମହେର ଅଭୁମହେର କ୍ଷୁ

SNTHSEC02: Santali Language Teaching

Outcomes:

- ୧୬୧୦୬2ନ ସ୬. ୬୧ନ ୬୧୯୬େକ କେଅଧରହ ଏ୬ଏ୬୦ ସ୬. ମନ୍ଦ୍ରରା, ୦୬ ଏ୬ଏ୬୯ ୦୬ଏ ହ୬୪୪୧୯୬କ ୬.

SNTHDSE01: Decretive study of Santali Language

Outcomes:



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- ୧୬୬୬ ୦୬P ୬୦୦୦ ଘଡ଼. ୬ ୪୬ ୪୬୯୦୪ ଏ୬ଏ୬୦ ୦୫ ଏ୬ଏ୬୯ ୦୬ଏ୬ ଼
- ୧୫୧୬ ୦୬୮୬୦୦୦ ୪୬୧୦୬୦୦ ୮୬. ୬୪୬ ଅ୬. ୭୪୬ ୪୬୯୦୪ ୪୫୬ ୦୬୦୦୦୦ ୦୬୦୬୦୬ ୧୬୦୬୦୬

SNTHDSE02: Poem & Poetry Literature (from 1950 to till now)

Outcomes:

SNTHDSE03: Prose Literature

Outcomes:

SNTHDSE04: Project Work

Outcomes:

SNTHGE01: History of Santali literature



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Outcomes:

- ୯୬୧୦୬2 ୧୬୬୪୦2 ୬2୧ ୧୬୪୦୦2 ୬.
 ୯୬୯୦୬2 ୧୬୪୦୦2 ୬.
 ୯୬୪୦୬୦୬୦୬୦୬୦୬୦୬୦୬୦୬୦୬୦2 ୧୬.
- ୯୬୧୦୬2
 ୧୬୦୦୬2
 ୧୬୦୦୬2
 ୧୬୦୦୬2
 ୧୬୦୦୬2
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 ୧୬୦୦୬2
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 ୧୬୦୬3
 ୧୬୦୬3
 ୧୬୦୬3

SNTHGE02: Santali Poetry literature, Folk Song

Outcomes:

- ୧୬୧୦୬୪୮ ୬୧୬୯୦୦ ୧୬୬୦୦୦ ୧୬୬୦୦୬ ୬୦୦ ଏ୬. ୧୯୬ ୭୬୦୫୬ ୯୬୯୬, ୫୦୭୫, ୬୯୬୮, ୬୪୫୬୦, ୭୦୯୪ ୬୬. ୧୭୬. ୬୦୯୬ ୭୬୦୫୬ ୯୬. ୮୬. ୮୫୦୬୬. ୭୬ ୯୬୯୬୯ ୧୬୯୦୬ ୬୦୦ ୧୬.
- (D3(D3)C (23)C (2

SNTHGE03: Drama literature

- ଜେ୬୯୬୯ ୬୪୯୬ଜ ୧୬. ୯୬. ୯୬୫୪ ୦୬୦୪ ୮୬. ୮୫୨୬୬. ୦୬ ୯୬୯୬୯ ୧୬୦ ୫୬୪୪୯୬ଜ- ୬[,]
- ୧୬୯୦୬୪୮ କ୬୪୯୯୬୯ ୧୬୬୦୦୧ ୩୬୩୬୦ ୮୬. ୮୬୨୬୬. ୭୬ କଟେ୧୬୯ ୭୬)



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- ୪୬୧୦୬୪୮ କେଅଟେଏଟ ଅଟେନ୍ମ୍ୟରେ. ୪୬୪ ଘଡ଼. ୮୫୨୪୬. ୦୫୬୬୫ ୨ଘ୬୨୯ ୦୦୯୨୫ - ୬୦
- KAROJES SORG REASERS SRALL \mathcal{A} REACE SREAR SRALL \mathcal{A} REACE SREAR SRALL \mathcal{A} REACE SREAR SALL \mathcal{A}

SNTHGE04: Santali Novel and Short story

Outcomes:

- ୧୬୧୦୬2ମ ଜ୬ଏ୬ଏ ୦୪୯ ୪୫୬୧ ୬୬ ୬୪୬ ୭୪୪୬୬୪୦ ୪୬୧୬ଏ ୭୪୧୬ ୬୧୬ ୮୬. ୮୫୨୬୬. ୪୫୯୬୦୫୯ ୬୬ ୬୪୬ ୭୪୬୬୪୦ ୬ ୧୪୪୬
- ୯୬୧୦୬2ନ ୦୦ନଦ ୦୬. ୦୧ନ ୦ନ୯ ୦୫୬୧ ୬୬ ୬୦୬ ୧୧୦୬୬୧ ୪୬୧୬୦
 ୧୧୬୬୧୬୦୦ ୦୦ନେ ୦୬. ୦୬୯୬୦୬୦ ୦୬୦ ୧୬୬୦୦୦୬୦୦ ୦୬୦

DEPARTMENT OF ANTHROPOLOGY

- 1. Name of the program: A. Under-Graduate in Anthropology Honours
- B. Under-Graduate in Anthropology General
- 2. Program Specifications
- A. Social-Cultural Anthropology and
- B. Biological Anthropology and
- C. Archaeological Anthropology
- Department : Anthropology



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Program : B.Sc. Hons. And General in Anthropology

3. Mode of Study: Full time (Semester system): Class room teaching; Tutorials; Laboratory training; Assignments; Dissertation in final semester

Background and purpose of the course:

Anthropology is the study of humanity. The subject focuses on the study of the origin and development of human societies and cultures. Culture is the learned behaviour of people, including their languages, belief systems, social structures, institutions, and material goods. Anthropologists study the characteristics of past and present human communities through a variety of techniques. In doing so, they investigate and describe how different people of our world lived throughout the history. Anthropologists aim to study and present their human subjects in a clear and unbiased way. They attempt to achieve this by observing subjects in their local environment. Anthropologists then describe interactions and customs, a process known as ethnography. By participating in the everyday life of their subjects, anthropologists can better understand and explain the purpose of local institutions, culture and practices. This process is known as participant-observation. Taken as a whole, these steps enable anthropologists to describe people through the people's own terms. Toward the goal of Anthropology, anthropologists explore aspects of human biology, evolutionary biology, linguistics, cultural studies, history, economics, and other social sciences. Anthropology emerged out of the New Imperialism. In the twentieth century, anthropology became increasingly specialized and professionalized as a social science. Modern anthropology is often divided into four distinct sub disciplines: biological anthropology, cultural anthropology, Linguistic anthropology and archaeology. Anthropologists from different fields also commonly collaborate using their different skills to create a more comprehensive understanding of a particular group.

The Department of Anthropology under School of Studies in Life Sciences offers the B. Sc. Hons and General (Anthropology) course with an outcome based curriculum. Students gain insights and knowledge not only from our own nationally recognized faculty members, but also from eminent scholars visiting from other institutions. The Department of



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Anthropology's focuses on the development of scholars who will contribute original and rigorous intellectual evaluation to the field of study.

Learning outcome

Our undergraduate program's greatest strengths are its flexibility in meeting the intellectual needs of individual students, the high level of cooperation and collaboration that exists within the student community and interdisciplinary approaches to scholarship.

• Our end semester dissertation presentation enables students to present their research to faculty and other students.

• Students will demonstrate an understanding of an anthropological perspective built upon a holistic understanding of cultural and biological systems.

• Students will develop an understanding of local and global processes and social complexity through space and time. • Students will develop basic knowledge of data collection methods and the analytic techniques that anthropologists use to evaluate these data.

• Students will develop the ability to critically evaluate anthropological data.

Knowledge:

• Learn how to ask questions, develop explanations, and analyse data from an anthropological perspective

• Learn to use your "anthropological imagination" as you come to understand the world and your place in it

• Coursework on topics such as: families, racial and ethnic identity, organizations, work, social inequality, sex and gender, sexuality, the welfare system, health and medicine, human rights, social movements and social justice.

Skills:

• How to interpret and analyze data

• Ability to design and conduct a research project



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- Written communication and presentation skills
- · Solving problems and identifying solutions

• Navigating issues of global diversity.

Students in anthropology gain valuable competencies.

• Describe how evolutionary and historical processes have shaped primates and human ancestors and lead to the biological, behavioural, and cultural diversity seen in the present.

• Describe how cultural systems construct reality differently for various human groups.

• Describe how varying types of data are collected, analyzed, synthesized and interpreted to achieve these first two goals.

• Communicate anthropological knowledge effectively through written, oral and data presentation in varying formats for diverse audiences.

• Discuss human diversity and how knowledge about human diversity should lead to a better understanding of and therefore respect for people whose culture differs from ours.

Course-1: B.Sc Honors: Program Objectives:

• The students of Anthropology will learn the history, branches and scope of anthropology.

• They will comprehensively understand the concepts and theories of major branches of anthropology i.e. Biological, Social, Archaeological anthropology.

• Students will be familiar with approaches, techniques, methodologies and study designs commonly used in anthropological research.

• They will understand the distinction of conducting population based fieldwork independently and collecting useful qualitative and quantitative date pertaining to their research work.

• A student of anthropology will be able to relate all the core papers, GE and SEC papers with social and political environment of communities.



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• They should achieve the efficiency in detecting the major health or social problems of society/populations and they should themselves give research based feasible solutions related any aspect of human life.

• Students should finally understand the importance of anthropological research in policy making and improving human life.

B.ScHons.in Anthropology program is three-year course divided into six -semesters.

PROGRAM OUTCOME

• The students of Anthropology will learn the history, branches and scope of anthropology.

• They will comprehensively understand the concepts and theories of major branches of anthropology i.e. Biological, Social and Archaeological anthropology.

• Students will be familiar with approaches, techniques, methodologies and study designs commonly used in anthropological research.

• They will understand the distinction of conducting population based fieldwork independently and collecting useful qualitative and quantitative date pertaining to their research work.

• A student of anthropology will be able to relate all the core papers, GE and SEC papers with social and political environment of communities.

• Students should finally understand the importance of anthropological research in policy making and improving human life.

Program Outcome:



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FIRST SEMESTER

COURSE CODE AND TITLE COURSE OUTCOME

C 1 (6C) ANTH-101

Introduction to Biological Anthropology

1. The purpose of the paper is to understand the concept of Origin of life on earth.

2. It also intended to acquaint the students with some of the significant issues like evolution of man and evidences of evolution.

3. Non human primates in relation to human Evolution

4. To understand the great divisions of humanity

5. To Understand the methods and techniques of anthropometric measurements somatometry and somatoscopy

C 2 (6C) ANTH-102

Introduction to Socio-cultural Anthropology

6. The students will learn about the scope and relevance of Social-Cultural Anthropology and its relationship with other branches of anthropology.

7. They will learn about concepts of society, culture, social stratification, etc.

8. They will also learn about important institutions like family, marriage and kinship

9. From the practical component they will learn how to follow up some of the commonly used techniques of data collection in Social-Cultural Anthropology.

GE-1(6C) *

Introduction to Biological Anthropology



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10. The purpose of the paper is to understand the concept of Origin of life on earth.

11. It also intended to acquaint the students with some of the significant issues like evolution of man and evidences of evolution.

12. Non human primates in relation to human Evolution

13. To understand the great divisions of humanity

14. To Understand the methods and techniques of anthropometric measurements somatometry and somatoscopy

SECOND SEMESTER

C 3 (6C) ANTH-201

Archaeological Anthropology

15. From this paper students will learn about concept of archeological anthropology and its relationship with other disciplines and the different methods of studying archeological anthropology

16. They will learn about the types of methods of estimation of time nd reconstruction of the past

17. They will know about Glacial and interglacial periods and pluviation and inter pluviation and different types of geo-climatic events.

18. It is also intended to acquire knowledge different types of tool techniques and types of tools.

19. They will also get knowledge on concept of earliest evidence of culture in the world.

C 4 (6C) ANTH-202

Fundamentals of Human Origin & Evolution



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20. The purpose of the paper is to understand the origin and evolution of primate and Human

21. It also intended to acquaint the students with some of the significant fossils of primate and Man

22. To Understand the Hominisation process

23. To Understand the methods and techniques of Craniometry

GE-2(6C)*

Archaeological Anthropology

24. From this paper students will learn about concept of archeological anthropology and its relationship with other disciplines and the different methods of studying archeological anthropology

25. They will learn about the types of methods of estimation of time and reconstruction of the past

26. They will know about Glacial and interglacial periods and pluviation and inter pluviation and different types of geo-climatic events.

27. It is also intended to acquire knowledge different types of tool techniques and types of tools.

28. They will also get knowledge on concept of earliest evidence of culture in the world.

THIRD SEMESTER

C 5(6C) ANTH-301

Tribes and Peasants in India



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29. The students will learn about the concepts of tribes, their classification and distribution

30. They will learn about how tribes are linked with the wider world

31. They will also learn about peasantry and how it is related to tribes

32. From the practical component they will learn to read original ethnographies and extract relevant information from the same.

C 6(6C) ANTH-302

Human Ecology: Biological & Cultural dimensions

33. The student will learn about the concept of ecology, its definition , adaptation in various ecological condition, biotic and abiotic components

34. They will learn about different methods of human ecology

35. They will know about the adaptation to various ecological stresses, homeostasis and thermoregulation, ecological rules and their applicability among human beings

36. They will also know about impact of urbanization and industrialization on man.

37. Students will learn about culture as a tool of adaptation and various modes of human adaptation in pre-stat societies.

38. Ecological themes of state formation and agriculture and peasantry

39. From the practical part they will know about to prepare a project repot on any environmental problem

GE-3(6C)*

Introduction to Socio-Cultural Anthropology40. To learn about the scope and relevance of Social-Cultural Anthropology and its relationship with other branches of anthropology

41. They will learn about concepts of society, culture, social stratification, etc.

42. They will also learn about important institutions like family, marriage and kinship.



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43. From the practical component they will learn how to follow up some of the commonly used techniques of data collection in Social-Cultural Anthropology.

FORTH SEMESTER

C 8(6C) ANTH-401

Theories of Culture and Society 44. The students will learn about the classical theories of culture like evolutionism, diffusionism and culture area

45. They will learn about historical particularism and neo-evolutionism.

46. They will also learn about functionalism, structuralism and other more recent theories

47. From the practical component they will learn about formulation of research questions and hypotheses, testing of hypotheses, etc

C 9(6C) ANTH-402

Human Growth and Development

48. The purpose of the paper is to understand the concept of human growth, development, differentiation and maturation

49. To understand Health and Nutritional Status

50. To understand the Bio-cultural factors influencing growth and variation

51. Somatotyping, Human physique and body composition

52. Bio-cultural adaptation to environmental stress

53. To understand the methods and techniques of Somatometry, estimation of body composition and nutritional assessment

C 10(6C) ANTH-403

Research Methods 54. Students will know about review o literature and the components of research design



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55. They will know about fieldwork tradition in anthropology and the contributions o different pioneers.

56. They will know about different tools and techniques of data collection in anthropology

57. They will also know about ethics and politics of research and analysis of data collected and how to write a research report.

58. The practical part will give knowledge on how to construct genealogy, different methods used in field work and an know how to write a report.

GE-4(6C)*

Research Methods in Anthropology 59. Students will know about review o literature and the components of research design

60. They will know about fieldwork tradition in anthropology and the contributions o different pioneers.

61. They will know about different tools and techniques of data collection in anthropology

62. They will also know about ethics and politics of research and analysis of data collected and how to write a research report.

63. The practical part will give knowledge on how to construct genealogy, different methods used in field work and an know how to write a report.

FIFTH SEMESTER

C 11(6C) ANTH-501

Human Population Genetics 64. To learn the major concepts of human population genetics and their inferences in understanding human evolution

65. Students can explain the basic terms/concepts of human population genetics



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66. Appreciate the mechanisms of evolutionary forces in shaping biological diversity

67. Be able to link different evolutionary forces and dynamic interaction between in human evolution

68. To understand the methods and techniques of determiningcolour blindness, G6PD, PTC tasting ability and Biochemical markers.

C 12 (6C) ANTH-502

Anthropology in Practice 69. The students will learn about various applications of anthropological knowledge and techniques.

70. They will learn about the role of anthropology in development practices

71. They will also learn about various constitutional provisions that protect human rights

72. From the practical component they will learn about how to prepare report on an NGO or a project on tourism.

DSE- I(A):

Indian Archaeology 73. From this content of this paper students will know about technique of tool manufacture and estimation of their relative efficiency and typology of tools and nomenclature.

74. They will know about methods of climatic reconstruction suh as palynology, paleontology, soil PH estimation.

75. They will also know about pleisticene chronology of India.

76. They will know about distribution and interpretation oh habitat and economy of lower Paleolithic, middle Paleolithic, upper Paleolithic, Mesolithic, Neolithic, chalcolithic, megalithic culture.

77. They will also know about art, ritual and beliefs.

DSE-I(C):



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Tribal Cultures in India

78. The students will learn about various concepts of tribes and the importance of studying them

79. They will learn about the difficulties of differentiating between tribe and caste in India.

80. They will also learn about classification of tribes based on religion, economy, occupation, race, etc

81. From the practical component they will learn about distribution of various categories of tribes in India and how to write an annotated bibliography and social structure of one of them.

SIXTH SEMESTER

C 13(6C) ANTH-601

Dissertation 82. Students will learn to prepare a dissertation based on ethnographic fieldwork.

C 14(6C) ANTH-602

Anthropology of India83. The students will learn about how anthropology originated and evolved in India.

84. They will learn about Indian society on the basis of some key concepts developed by various anthropologists and sociologists.

85. They will also learn about the contributions of some western anthropologists to understanding Indian society and culture.

86. The students will learn about various concepts of tribes and the importance of studying them.

87. They will learn about the tribal situation in India and difficulties of differentiating between tribe and caste in India.



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88. They will also learn about the various developmental projects on Tribes.

89. From the practical component they will learn about diversities in Indian society on the basis of biological and cultural traits.

DSE- I(A):

Forensic Anthropology 90. To know about forensic anthropology, a specialized, applied branch of physical/biological anthropology which deals with the medico-legal investigation.

91. How it has been developed a sub-discipline of biological anthropology through historical dimension.

92. To understand scope of forensic anthropologist as well as work of forensic anthropologists how they are helpful for the court of law or law enforcement agencies viz, Personal identification, Serology, Individualization.

93. From the practical component they will learn about Human Long Bones, Somatometric and Soomatoscopic observation on living persons,Identification of bloodstain, urine, semen saliva and examination of Fingerprints and Handwriting.

DSE- I(B) : Urban Anthropology 94. From this paper student will know about emergence of urban anthropology, political economy, class approach, urban inequality and disasters, global urban development.

95. From the practical contents they will know about role of culture among business community, media popular culture behavior, photo shoot in city life and creating captions and texts relating to urban anthropology.

B.Sc. Botany

Program Outcomes (PO)



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The undergraduate (UG) course offered by the Department of Botany, Government General Degree College, Keshiary, strictly follows the CBCS syllabus as prescribed by the Vidyasagar University which is in alliance with UGC.

- The program is a combination of general and specialized education, simultaneously introducing the concepts of breadth and depth in learning.
- The Program offers essential knowledge and technical skills to study plants in a holistic approach.
- Students would be educated in all areas of plant biology using a unique amalgamation of core and elective papers with major inter-disciplinary components.
- The fundamental aim is to produce competent plant biologists who can employ and implement their gained knowledge in basic and applied aspects that will profoundly influence the prevailing paradigm of agriculture, industry, healthcare and environment to provide sustainable development.
- The present curriculum will not only advance theirknowledge and understanding of the subject, but will also increase the ability of critical thinking, development of scientific attitude, handling of problems and generating solution, improve practical skills, enhance communication skill, social interaction, increase awareness in environment related issues and recognize the ethical value system.
- Additionally the training provided to the students will make them competent enough for doing jobs in Govt. and privatesectors of academia, research and industry.
- Finally to prepare the students for lifelong learning by drawing attention to the vast world of knowledge of plants and introducing them to the methodology of systematic academic enquiry.

The UG curriculum caters an all-round development of the student, rolling out globally ready individuals into the fast pacing world.

PO1. Knowledge and understanding of: 1. The range of plant diversity in terms of structure, function and environmental relationships. 2. The evolution of plant diversity. 3. Plant classification and the flora of West Bengal. 4. The role of plants in the functioning of the global ecosystem.



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PO2. Intellectual skills – able to: 1. Think logically and organize tasks into a structured form. 2. Assimilate knowledge and ideas based on wide reading and through the internet. 3. Transfer of appropriate knowledge and methods from one topic to another within the subject.

PO3. **Practical skills:** Students learn to carry out practical work, in the field and in the laboratory, with minimal risk. They gain introductory experience in applying each of the following skillsin . 1. Interpreting plant morphology and anatomy. 2. Plant identification. 3. Vegetation analysis techniques. 4. A range of physiochemical analyses of plant materials in the context of plant physiology and biochemistry. 5. Analyse data using appropriate statistical methods. 6. Plant pathology to be added for sharing of field and lab data obtained.

PO4. **Scientific Knowledge:** Apply the knowledge of basic science, life sciences and fundamental process of plants to study and analyze any plant form.

PO5. **Problem analysis:** Identify the taxonomic position of plants, formulate the research literature, and analyze non reported plants with substantiated conclusions using first principles and methods of nomenclature and classification in Botany.

PO6. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern instruments and equipments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological activities of plants with an understanding of the application and limitations.

PO7. The Botanist and society: Apply reasoning informed by the contextual knowledge to assess plant diversity, its importance for society, health, safety, legal and environmental issues and the consequent responsibilities relevant to the biodiversity conservation practice.

PO8. Environment and sustainability: Understand the impact of the plant diversity in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. PO9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



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Course Outcomes of B.Sc. Botany

CO1. Critically evaluation of ideas and arguments by collection relevant information about the plants, so as recognize the position of plant in the broad classification and phylogenetic level.

CO2. Identify problems and independently propose solutions using creative approaches, acquired through interdisciplinary experiences, and a depth and breadth of knowledge/expertise in the field of Plant Identification.

CO3. Accurately interpretation of collected information and use taxonomical information to evaluate and formulate a position of plant in taxonomy.

CO4. Students will be able to apply the scientific method to questions in botany by formulating testable hypotheses, collecting data that address these hypotheses, and analyzing those data to assess the degree to which their scientific work supports their hypotheses.

CO5. Students will be able to present scientific hypotheses and data both orally and in writing in the formats that are used by practicing scientists.

CO6. Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works.

CO7. Students will be able to apply fundamental mathematical tools (statistics, calculus) and physical principles (physics, chemistry) to the analysis of relevant biological situations.

CO8. Students will be able to identify the major groups of organisms with an emphasis on plants and be able to classify them within a phylogenetic framework. Students will be able to compare and contrast the characteristics of plants, algae, and fungi that differentiate them from each other and from other forms of life.

CO9. Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth. They will be able to use specific examples to explicate how descent with modification has shaped plant morphology, physiology, and life history.



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CO10. Students will be able to explain how Plants function at the level of the gene, genome, cell, tissue, Flower development. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and mode of life cycle followed by different forms of plants.

CO11. Students will be able to explain the ecological interconnectedness of life on earth by tracing energy and nutrient flow through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.

CO12. Students will be able to demonstrate proficiency in the experimental techniques and methods of analysis appropriate for their area of specialization within biology.

Program Specific Outcomes (PSO)

PSOs of B.Sc. Botany:

1. Provide an introduction to Biodiversity ranging from Microbes (Viruses and Bacteria), to Fungi, including diverse plant groups (Algae and Archegoniates-Bryophytes, Pteridophytes and Gymnosperms).

2. To enable students to understand and appreciate the relevance of Microbes and Plants to environment (ecological significance) and human well-being (economic importance).

3. Develop an understanding of Evolution of Plant forms and the consequent Biodiversity. These are instrumental in creating awareness on the threats to biodiversity and sensitizestudents towards the Conservation of Biodiversity for sustainable development.

4. To study the organization of cell, cell organelles and biomolecules (i.e protein, carbohydrate, lipid and nucleic acid) to gain knowledge on the activities in which the diverse macro molecules and microscopic structures inhabiting the cellular world of life are engaged. This will facilitate the students to understand the various metabolic processes such as respiration, photosynthesis etc. which are important for life.



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5. To introduce students to application of microbes in Industrial production and Environmental remediation strategies.

6. New knowledge and widening of the knowledge acquired in by handling of classical and modern plant biotechnology processes, including tissue culture for healthy plants, plants with improved characteristics.

7. To explore the natural genetic variation in plants and to understand how diverse factors (at the cellular level) contribute to the expression of genotypes and hence to phenotypic variation.

8. Understanding of biotechnological processes such as recombinant DNA technology and its applicative value in pharmaceuticals (vaccines, antibiodies, antibiotics etc.), food industry (transgenic crops with improved qualities (nutraceuticals, industrial enzymes etc.), agriculture (biotic and abiotic stress tolerant plants, disease and pest resistant plants, improved horticultural varieties etc.), ecology (plants role in bioremediation). This knowledge is central to our ability to modify plant responses and properties for global food security and commercial gains in biotechnology and agriculture.

9. In the laboratory classes, students will achieve some of the techniques currently used to generate information and detect genetic variation.

10. Understanding of plant classification systematics, evolution, ecology, developmental biology, physiology, biochemistry, plant interactions with microbes and insects, morphology, anatomy, reproduction, genetics and molecular biology of various plants groups.

11. Understanding of various analytical techniques of plant sciences, use of plants as industrial resources or as human livelihood support system and the use of transgenic technologies for basic and applied research in plants.

12. Understanding of various life forms of plants, morphology, anatomy, reproduction, genetics, microbiology, molecular biology, recombinant DNA technology, transgenic technology and use of bioinformatics tools and databases and in the application of statistics to biological data



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13. To provide new information, enhance core competency and discovery/inquiry based learning of learners. A botany graduate would be competent in the field to undertake further disciplinespecific studies, as well as to begin domain-related employment.

14. To make students aware of most basic domain-independent knowledge, including critical thinking and communication.

B.Sc Honours Program (CBCS)

Generic Elective Chemistry (GE1)

Program specific outcome (PSO)

After completing the Generic Elective as Chemistry study:

- Students will gain a general understanding of Chemistry covering all the aspects viz. inorganic, organic, physical and analytical Chemistry
- Students will be able tocarry out chemical experiments qualitatively and quantitatively and apply them in their day to day life.
- Students will be encouraged to continue their higher study.

Course outcome (CO)

GE1T1

Section A: Inorganic Chemistry

• Atomic Structure

Outcomes

Student can learn about

- Different model of atomic structure with proper explanation.
- Quantum number and their significance.
- Orbitals and electronic configuration.
 - Chemical Periodicity

Outcomes



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Student can learn about

- Periodic table and classification of elements on the basis of electronic configuration.
- Periodic and group wise variation of properties such as atomic and ionic radii, electronegativity, ionization potential, electron affinity.
 - Acids and Bases

Outcomes

Student can learn about

- Various concepts of Acids and bases.
 - Hard-soft acid bases and their application.

Redox reactions

Outcomes

Student can learn about

- Balancing of equation by oxidation number.
- Balancing of equation by ion-electron method.

Section B: Organic Chemistry

• Fundamentals of Organic Chemistry

Outcomes

Student can learn about

- Inductive effect, Resonence, Hyperconjugations.
- Cleavage of bonds and structure of organic compounds on the basis of VBT.
- Various reactive intermediates.
 - Stereochemistry



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Outcomes

Student can learn about

- Different types of isomerism.
- Concept of Chirality and optical activity, Elements of symmetry.
- Various representation and their interconversion.
 - Various nomenclatures
 - Nucleophilic substitution and Elimination Reactions

Outcomes

Student can learn about

• Different types of Nucleophilic and Elimination reactions.

• Aliphatic Hydrocarbons

Outcomes

Student can learn about

• Preparation and reactions of alkanes, alkenes and alkynes.

GE1P1 Lab

Section A: Inorganic Chemistry

Outcomes

Student can gain practical knowledge about Acid-base titration, Redox titration and Iodometric titration.

Section B: Organic Chemistry

Outcomes

Student can gain practical knowledge about qualitative analysis of single solid Organic compounds.



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B.Sc General in Chemistry (CBCS)

Program specific outcome (PSO)

After completing the General in Chemistry program:

- Students will gain a general understanding of Chemistry covering all the aspects viz. inorganic, organic, physical and analytical Chemistry
- Students will be able to carry out chemical experiments qualitatively and quantitatively and apply them in their day to day life.
- Students will be encouraged to continue their higher study.
- Students will be able to serve Chemical industry.

Course outcome (CO)

CHEMGDS01A(CC-01)

Section A: Inorganic Chemistry-1

• Atomic Structure

Outcomes:

Student can learn about

- Different model of atomic structure with proper explanation.
- Quantum mechanics and H-spectra.
- Orbitals and electronic configuration.
 - Chemical Bonding and Molecular Structure

Outcomes:

Student can learn about

• The Concept of ionic bond, Fajans rule, Lattice energy, Concept of covalent bond VBT and VSEPR theory and MO& LCAO



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Section B: Organic Chemistry-1

• Fundamentals of Organic Chemistry

Outcomes:

Student can understand

- Different type of Physical Effects, Electronic Displacements, Strength of Organic acid base, Aromaticity:Huckels rule.
 - Stereochemistry

Outcomes:

Student can understand

• Spatial arrangement of molecule Concept of chirality, Isomerism, CIP rule and aliphatic hydrocarbons.

• Aliphatic Hydrocarbons

Outcomes

Student can learn about

Preparation and reactions of alkanes, alkenes and alkynes.

CHEMGDS01A(CC-01)(P)

Section A: Inorganic Chemistry

Outcomes:

Volumetric Analysis- Student can develop their quantitative analysis skill through volumetric titration.

Section B: Organic Chemistry



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Outcomes:

Student will able to detect

- Special element in organic compound.
- Chromatographic separation technique

CHEMGDS-1B (CC-02)

Section A: Physical Chemistry-1

• Chemical Energetic

Outcomes:

Student will develop the knowledge about

- Laws of Thermodynamics, different aspect of enthalpy,
- Kirchoof's equation and third law of Thermodynamics.
 - Chemical Equilibrium

Outcomes:

Student can learn about

- Free energy change, Thermodynamic derivation of the law of chemical equilibrium, ΔG , and Le Chatelier'sprincipleKp, Kc and Kx.
 - Ionic Equilibrium Outcomes:

Student can know about



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- Strong, moderate and weak electrolytes, degree of ionization, factors affecting degree of ionization, ionization constant and ionic product of water.
- Ionization of weak acids and bases, pH scale, common ion effect. Salt hydrolysiscalculation of hydrolysis constant, degree of hydrolysis and pH for different salts. Buffer solutions. Solubility and solubility product of sparingly soluble.

Section B: Organic Chemistry-2

• Aromatic Hydrocarbon

Outcomes:

Student can learn about

• Preparation and reaction of aromatic hydrocarbon,

• Alkyl and Aryl Halides

Outcomes:

Student can learn about

- Preparation and reactions of alkyl and aryl halides
 - Alcohols, Phenols and Ethers and Aldehydes and ketones.

Outcomes:

Student can learn about

• Preparation and reactions of alcohols, phenols, ethers, aldehydes and ketones.

CHEMGDS1BP

Section A: Physical Chemistry



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Outcomes:

Student can develop their skill to determine enthalpy of different system and preparation of buffer.

Section B: Organic Chemistry

Outcomes:

Student can experience the knowledge about Purification of organic compounds, Determination of melting and boiling points and Preparations.

CHEMGDS1CP (CC-03)

Section A: Physical Chemistry-2

• Solutions

Outcomes:

Student will know about

- Thermodynamics of ideal solutions, Raoult's law nonideal solutions.
- Vapour pressure-composition, Lever rule, Azeotropes, Critical solution temperature,
- Nernst distribution law and solvent extraction.

• Phase Equilibrium

Outcomes:

Student can learn about

• Phases, components and degrees of freedom of a system, Gibbs Phase Rule, Derivation of Clausius – Clapeyronequation, Phase diagrams.



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• Conductivity

Outcomes:

Students will gather knowledge about

- Conductivity, Kohlrausch law, Hittorf and Moving boundary methods, Ionic mobility, degree of ionization of weak electrolyte, solubility and solubility products of sparingly soluble salts, ionic product of water, hydrolysis constant of a salt and Conductometric titration.
 - Electochemistry

Outcomes:

Student will know about

• Reversible and irreversible cells, EMF, Nernst equation Standard electrode potential, Thermodynamics of a reversible cell, Liquid junction potential and salt bridge andpH determination using hydrogen electrode and quinhydrone electrode.

Section B: Organic Chemistry-3

• Carboxylic acids and their derivatives

Outcomes:

Student can learn about

- Preparation and reaction of Carboxylic acids and their derivatives.
 - Amines and Diazonium Salts,

Outcomes:



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Student can learn about

- Preparation and reaction of Amines and Diazonium salts.
- Amino Acids, Peptides and Proteins

Outcomes:

Student can learn about

- Preparation and reaction of Amino Acids, Peptides and Proteins.
- Carbohydrates.

Outcomes:

Student can learn about

- Classification and general properties of carbohydrates
- Structures of disaccharides and polysaccharides
- •

CHEMGDS-01CP

Section A: Physical Chemistry

Outcomes:

Student can gather practical knowledge about distribution, phase equilibria, conductance, Potentiometry

Section B: Organic Chemistry

Student can gather practical knowledge about some organic synthesis and separation technique.

CHEMDS-1D(CC-04)



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Section A: Inorganic Chemistry-3

• Transition elements

Outcomes:

Student can learn about

- The property and reaction of transition elements.
 - Coordination Chemistry

Outcomes:

Student can know about

- Co-ordination chemistry, VBT
- Structural and stereochemical isomerism in complexes
- Crystal Field Theory

Outcomes:

Student can know about

• CFSE and comparison of CFSE for O_h and T_d complex

Section B: Physical Chemistry-3

• Kinetic theory of gases

Outcomes:

Students will gather knowledge about

• Nature and behaviour of gases



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• Liquids

Outcomes:

Students will gather knowledge about

- Surface tension, viscosity and effect of temperature on these
- Soilds

Outcomes:

Students will gather knowledge about

- Forms of solids
- Symmetry elements
- Aws of Crystalography
- Chemical Kinetics

Outcomes:

Students will gather knowledge about

• Kinetics parameter of chemical reaction.

CHEMDS-1D(CC-04)(P)

Section A: Inorganic Chemistry

Outcomes:

Student can develop their qualitative aptitude for detection of ions with some quantitative estimation of ion.

Section B: Physical Chemistry

Outcomes:

Student can practically learn Surface tension, viscometer and rate determination.



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DSE-1T: Analytical Methods in Chemistry

Outcomes:

- Development the aptitude about Qualitative and quantitative aspects of analysis.
- Student can know about different type of spectrophotometric analysis.
- Student can learn about thermogravimetry and different separation technique.

DSE1P: Analytical methods in Chemistry

Outcomes:

Student can gain practical knowledge about

• Chromatography, solvent extraction and spectro photometry.

SEC-2T: Analytical Clinical Biochemistry

Outcomes:

Students will gather knowledge about

• Structure, properties and functions of carbohydrates, lipid and proteins

SEC-2P: Analytical Clinical Biochemistry

Outcomes:

• Students will gather practical knowledge about identification and estimation of carbohydrates, lipid and proteins

SEC-3T: Pharmaceutical Chemistry

Outcomes:

Students will gather knowledge about Drugs, Pharmaceuticals and fermentation

SEC-3P: Pharmaceutical Chemistry

Outcomes:

Students will gather practical knowledge about preparation of Aspirin and antacid.

SEC-4T: Pesticide Chemistry



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Outcomes:

Students will gather knowledge about pesticides, their benefits and adverse effects.

SEC-4P: Pesticide Chemistry

Outcomes:

Students will gather practical knowledge about determination of acidity or alkanity of pesticide and preparation of organophosphates, phosphonates and thiophosphates.

Curriculum for 3-Year B. Sc (General) in Zoology

1 st Semester	DSC-1A (Animal Diversity)	The objective of this program is to familiarise pupils with the wide range of animal species, including both invertebrates and vertebrates. The students will receive instruction on invertebrates and vertebrates through the use of observational techniques, museum specimens, and field reports.
2 nd Semester	DSC-1B (Comparative Anatomy and Development Biology of Vertebrates)	An organism's diverse forms, size, and structural traits are produced by a range of interconnected processes.
3 rd Semester	DSC-1C (Physiology and Biochemistry)	Enhancing comprehension of biological ideas by researching them at the biochemical, molecular, and cellular levels, as well as investigating physiology and reproduction at the organism level, and examining the ecological influence on animal behaviour.

B.Sc. (General) Program specific outcomes



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	SEC-1 (Apiculture)	Acquiring knowledge in animal science to apply it in the fields of apiculture.
4 th Semester	DSC-1D (Genetics and Evolution Biology)	Understanding the fundamental principles of biosystematics, evolutionary biology, and biodiversity will equip students with the skills to address biological issues pertaining to the environment.
5 th Semester	DSE-1A (Aquatic Biology)	Acquiring knowledge in animal science to apply it in the fields of aquaculture, and fisheries.
	SEC-3 (Medical Diagnostics)	Acquiring knowledge in animal science to apply it in the fields of contemporary medicine.
6 th Semester	DSE-1B (Animal Biotechnology)	Exhibiting a thorough comprehension of the principles, methodology, and applications of biotechnological techniques within the realm of animal biology. They will get a comprehensive range of skills and knowledge that will equip them for diverse employment opportunities in research, conservation, and industries associated with animal sciences.
	SEC-4 (Sericulture)	Acquiring knowledge in animal science to apply it in the fields of silkworm rearing, sericulture.

Course Outcome (CO) DSC-1A (CC-1): Animal diversity DSC1AT: Animal diversity



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Outcomes

- 1. The students will learn about general characters and classification of protozoans and their locomotory organelles and locomotion.
- 2. The students will learn about general characters and classification of poriferan and the canal System in *Sycon*.
- 3. The students will learn about general characters and classification of cnidarians and polymorphism in *Hydrozoa*
- 4. The students will learn about general characters and classification of platyheminithes and life history of *Taenia solium*.
- 5. The students will learn about general characters and classification of nemathelminthes and life history of *Ascaris lumbricoides* and parasitic adaptations.
- 6. The students will learn about general characters and classification of annelids and their metamerism.
- 7. The students will learn about general characters and classification of arthropods, metamorphosis in insects, vision of arthropods.
- 8. The students will learn about general characters and classification of molluscs and torsion in gastropods.
- 9. The students will learn about general characters and classification of echinoderms and water vascular in Asteroidea
- 10. The student will learn about general features and Phylogeny of Protochordata
- 11. The student will learn about general features of Agnatha and classification of cyclostomes up to classes.
- 12. The student will learn about general features and classification up to orders and osmoregulation in fishes.
- 13. The student will learn about general features and classification up to orders and Parental care in amphibians
- 14. The student will learn about general features and classification up to orders in reptiles, poisonous and non-poisonous snakes, biting mechanism in snakes
- 15. The student will learn about general features and classification up to orders in birds; flight adaptations in birds



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16. The student will learn about classification up to orders and origin of mammals

DSC1AP: Animal diversity (Practical)

Outcomes

- 1. The students will learn to identify different animal specimens
- 2. The students will learn to identify permanent slides of different animal sections
- 3. The students will learn to identify the poisonous and non-poisonous snakes using keys

DSC-1B (CC-2): Comparative Anatomy and Developmental Biology of Vertebrates DSC1BT: Comparative Anatomy and Developmental Biology of Vertebrates

Outcomes

- 1. The students will learn about the integumentary derivatives.
- 2. The students will learn about the evolution of visceral arches.
- 3. The students will learn about the alimentary system and digestive glands.
- 4. The students will learn about the gills, lungs, air sacs and swim bladder.
- 5. The students will learn about the evolution of heart and aortic arches.
- 6. The students will learn about the succession of kidney and evolution of urogenital ducts.
- 7. The students will learn about the the comparative account of brain.
- 8. The students will learn about the sensory receptors and types.
- 9. The students will learn about the early embryonic development like gametogenesis, fertilization and organogenesis.
- 10. The students will learn about the metamorphosis and human placenta.
- 11. The students will learn about the gene activation, determination, induction, differentiation, morphogenesis, intercellular communication, cell movements and cell death.

DSC1BP: Comparative Anatomy and Developmental Biology of Vertebrates (Practical) Outcomes

1. The students will learn to identify the skull and skeleton of different vertebrates



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- 2. The students will learn to identify the different development stages of frog
- 3. The students will learn to identify the different types of placenta
- 4. The students will learn to identify placental development in human using ultrasound scans
- 5. The students will learn to identify the gametes in frog and rat using permanent slides

DSC-1C (CC-3): Physiology and Biochemistry

DSC1CT: Physiology and Biochemistry

Outcomes

- 1. The students will learn about nerves and muscles.
- 2. The students will learn about physiology of digestion in the alimentary canal, absorption of carbohydrates, proteins, and lipids.
- 3. The students will learn about pulmonary ventilation, respiratory volumes and capacities and transport of oxygen and carbon dioxide in blood.
- 4. The students will learn about the structure of nephron, mechanism of urine formation, and counter-current mechanism.
- 5. The students will learn about composition of blood, hemostasis, structure of heart, origin and conduction of the cardiac impulse, cardiac cycle.
- 6. The students will learn about physiology of male reproduction: hormonal control of spermatogenesis; physiology of female reproduction: hormonal control of menstrual cycle structure and function of pituitary, thyroid, parathyroid, pancreas and adrenal.
- 7. The students will learn about glycolysis, Kreb's cycle, pentose phosphate pathway, gluconeogenesis, glycogen metabolism, and electron transport chain.
- 8. The students will learn about biosynthesis and β oxidation of palmitic acid.
- 9. The students will learn about transamination, deamination and urea cycle.
- 10. The students will learn about mechanisms of enzyme action, enzyme kinetics, inhibition and regulation.

DSC1CP: Physiology and Biochemistry (Practical)

Outcomes



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- 1. The students will prepare slides hemin and hemochromogen crystals.
- 2. The students will learn to identify histological sections of mammalian pituitary, thyroid, pancreas, adrenal gland.
- 3. The students will learn to identify spinal cord, duodenum, liver, lung, kidney, bone, cartilage.
- 4. The students will learn to identify functional groups of carbohydrates in given solutions (Glucose, Fructose, Sucrose, Lactose).
- 5. The students will learn to estimate total protein in given solutions by Lowry's method.
- 6. The students will learn to study of activity of salivary amylase under optimum conditions.

DSC-1D (CC-4): Genetics and Evolutionary Biology

DSC1DT: Genetics and Evolutionary Biology

Outcomes

- 1. The students will learn about Mendel's work on transmission of traits, genetic variation, molecular basis of genetic information.
- 2. The students will learn about principles of inheritance, chromosome theory of inheritance, incomplete dominance and codominance, multiple alleles, lethal alleles, epistasis, pleiotropy, sex linked inheritance, extra-chromosomal inheritance.
- 3. The students will learn about linkage and crossing over, recombination frequency as a measure of linkage intensity, two factor and three factor crosses, interference and coincidence, somatic cell genetics an alternative approach to gene mapping.
- 4. The students will learn about chromosomal mutations: deletion; duplication; inversion; translocation; aneuploidy and polyploidy; gene mutations: induced versus spontaneous mutations, back versus suppressor mutations.
- 5. The students will learn about chromosomal mechanisms, dosage compensation and sex determination.
- 6. The students will learn about major events in the origin of life.
- 7. The students will learn about Lamarckism, Darwinism, Neo-Darwinism



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- 8. The students will learn about types of fossils, incompleteness of fossil record, dating of fossils, phylogeny of horse.
- 9. The students will learn about organic variations; isolating mechanisms; natural selection (example: industrial melanism); types of natural selection (directional, stabilizing, disruptive), artificial selection.
- 10. The students will learn about biological species concept (advantages and limitations); modes of speciation (allopatric, sympatric).
- 11. The students will learn about macro-evolutionary principles.
- 12. The students will learn about mass extinction (causes, names of five major extinctions, K-T extinction in detail), role of extinction in evolution.

DSC1DP: Genetics and Evolutionary Biology (Practical)

Outcomes

- The students will learn about Mendelian inheritance and gene interactions (Non-Mendelian inheritance) using suitable examples and verify the results using chi-square test.
- 2. The students will learn about linkage, recombination, gene mapping using data.
- 3. The students will learn about normal and abnormal human karyotypes.
- 4. The students will learn about fossil evidences from plaster cast models and pictures.
- 5. The students will learn about phylogeny of horse and adaptive radiation in Darwin's finches from charts.
- 6. The students will visit Natural history museums.

DSE-1: Aquatic biology

DSE1T: Aquatic biology

Outcomes

1. The students will learn about aquatic biomes like freshwater ecosystems (lakes, wetlands, streams and rivers), estuaries, intertidal zones, oceanic pelagic zone, marine benthic zone and coral reefs.



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- 2. The students will learn about origin and classification of lakes as an ecosystem, lake morphometry, physico- chemical characteristics like light, temperature, thermal stratification, dissolved solids, carbonate, bicarbonates, phosphates and nitrates, turbidity; dissolved gases (oxygen, carbon dioxide). nutrient cycles in lakes-nitrogen, sulphur and phosphorous; different stages of stream development, physico-chemical environment, adaptation of hill-stream fishes.
- 3. The students will learn about salinity and density of sea water, continental shelf, adaptations of deep sea organisms, coral reefs, sea weeds.
- 4. The students will learn about causes of pollution: agricultural, industrial, sewage, thermal and oil spills, eutrophication, management and conservation (legislations), sewage treatment water quality assessment- BOD and COD.

DSE1P: Aquatic Biology (Practical)

Outcomes

- 1. The students will learn to determine the area of a lake using graphimetric and gravimetric method.
- 2. The students will be able to identify the important macrophytes, phytoplanktons and zooplanktons present in a lake ecosystem.
- 3. The students will be able to determine the amount of turbidity/transparency, dissolved oxygen, carbon dioxide, alkalinity (carbonates & bicarbonates) in water collected from a nearby lake/ water body.
- The students will be able to operate the Instruments used in limnology (Secchi disc, Van Dorn Bottle, Conductivity meter, Turbidity meter, PONAR grab sampler).
- 5. The students will visit a fisheries institute.

SEC-3: Medical Diagnostics

SEC3T: Medical Diagnostics

Outcomes

1. The students will be able to learn medical diagnostics and its Importance.



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- The students will be able to learn diagnostics methods used for analysis of blood like blood composition, preparation of blood smear and differential count (D.C) using Leishman's stain, platelet count using haemocytometer, erythrocyte sedimentary rate (E.S.R), packed cell volume (P.C.V.).
- 3. The students will be able to learn urine analysis like physical characteristics and also abnormal constituents.
- 4. The students will be able to learn causes, types, symptoms, complications, diagnosis and prevention of Diabetes (Type I and Type II), hypertension (primary and secondary), testing of blood glucose using Glucometer/kit.
- 5. The students will be able to learn about causes, types, symptoms, diagnosis and prevention of Tuberculosis and Hepatitis.
- 6. The students will be able to learn about Benign and Malignant tumors, detection and metastasis; medical imaging: X-Ray of bone fracture, PET, MRI and CT Scan using photographs.

DSE - 2: Animal Biotechnology

DSE2T: Animal Biotechnology

Outcomes

- 1. The students will be able to learn about the concept and scope of biotechnology.
- 2. The students will be able to learn about Cloning vectors like Plasmids, Cosmids, Phagemids, Lambda Bacteriophage, M13, BAC, YAC, MAC and Expression vectors; Restriction enzymes, Transformation techniques like Calcium chloride method and electroporation; Construction of genomic and cDNA libraries and screening by colony and plaque hybridization Southern, Northern and Western blotting; DNA sequencing: Sanger method; Polymerase Chain Reaction, DNA Finger Printing and DNA micro array.
- 3. The students will be able to learn about production of cloned and transgenic animals: nuclear transplantation, retroviral Method, DNA microinjection, applications of transgenic animals in production of pharmaceuticals, production of donor organs, knockout mice also production of transgenic plants: *Agrobacterium* mediated



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transformation, applications of transgenic plants for insect and herbicide resistant plants.

4. The students will be able to learn about animal cell culture, expressing cloned genes in mammalian cells, molecular diagnosis of genetic diseases (Cystic fibrosis, Sickle cell anemia); recombinant DNA in medicines: recombinant insulin and human growth hormone, gene therapy.

DSE2P: Animal Biotechnology (Practical)

Outcomes

- 1. The students will be able to Genomic DNA isolation from E. coli.
- 2. The students will be able to Plasmid DNA isolation (pUC 18/19) from E. coli.
- 3. The students will be able to Restriction digestion of plasmid DNA.
- 4. The students will be able to construct circular and linear restriction map from the data provided.
- 5. The students will be able to calculate transformation efficiency from the data provided.
- 6. The students will be able to learn about Southern blotting, Northern blotting, Western blotting, DNA Sequencing, PCR, DNA fingerprinting
- 7. The students will be able to learn animal cell culture.

SEC4T: Sericulture

- The student will be able to learn about sericulture, its history and present status; silk route, types of silkworms, distribution and races, exotic and indigenous races, mulberry and non-mulberry sericulture.
- 2. The student will be able to learn about the life cycle of *Bombyx mori*, structure of silk gland and secretion of silk.
- 3. The student will be able to learn about selection of mulberry variety and establishment of mulberry garden, rearing house and rearing appliances, disinfectants:



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formalin, bleaching powder, RKO, silkworm rearing technology: early age and late age rearing, types of mountages, spinning, harvesting and storage of cocoons.

- 4. The student will be able to learn about pests of silkworm like Uzi fly, dermestid beetles and vertebrates, pathogenesis of silkworm diseases: protozoan, viral, fungal and bacterial, control and prevention of pests and diseases.
- 5. The student will be able to learn about the prospect of sericulture in India; sericulture industry in different states, employment, potential in mulberry and non-mulberry sericulture including visit to various sericulture centers.

B.Sc. Honours in Zoology

Program specific outcome

Zoology is being taught both as a major subject in Zoology Honours courses and as a combination subject in other Honours subjects. Further Zoology also stands as a major subject component in Biology general courses in Vidyasagar University CBCS curriculum. The aims of studying zoology as an Honours subject at B.Sc. level is manyfold.

- Students are enabled to learn diversity of animal world in nature. They will also be able to identify and classify living organisms around them scientifically.
- Students will be aware of existence of numerous kinds of organisms starting from microscopic to giant animals around them in the environment.
- It will also help students understand habit habitat of organisms around them.
- Students will be able to learn the roles of different organism in nature and how a natural balance is maintained depending on co-existence of various species.
- Students will also be able to learn how different body systems evolved from simple organism to advanced individuals through continuous evolutionary process.



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- A thorough understanding of the concepts will also enable students gain knowledge about ultrastructure, function of various organs of animal body and also of various organelles inside the cell.
- It will also help students gain insight regarding developmental process of a full-grown organism starting from very moment it is created after fusion of male and female gametes.
- How our body responds to various harmful agents and or organisms is another major aspect that is addressed in the subject.
- Helps students understand how tiny biomolecules inside our cells interact with each other and form metabolic pathways.
- Learners are enabled to understand how genes play role in our hereditary characteristics, how they propagate and how abruption in gene structure results in diseases.

Course Outcome

C1T and C1P (Non-chordates-I and Non-chordates-I Practical)

- Students will get concepts of principles of classification, systematics and taxonomy as well as general characteristics, classification of major lower invertebrate phyla.
- It will also provide type study ideas of certain organisms like *Plasmodium sp., Fasciola sp., Ascaris sp.*to students regarding representatives of major phyla and how these organisms possess harm to mankind.
- Students will be able to identify important members of invertebrate phyla thereby enriching concept of biodiversity.
- This will also enable students learn the mode of transmission of certain diseases caused by certain harmful organisms.



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• Students will learn to make permanent slide preparation methods of important organisms.

C2T and C2P (Ecology and Ecology Practical)

Outcomes

- Students will get concepts of branches ecology and components ecosystem.
- They will be able to learn various population growth curves and factors controlling them.
- They will be able to develop concepts of community, species diversity, ecological succession.
- Students will be aware of concepts of ecosystem and importance of wildlife conservation and management.
- They will be able to measure pH of water bodies, turbidity, dissolved O₂content and free CO₂of aquatic ecosystems.
- They will be introduced to various planktons of aquatic ecosystems and will learn the principles of determination of population density using a variety of approaches.

C3T and C3P (Non-Chordates-II and Non-Chordates-II Practical)

- Students will be familiar to classification and characteristics of major invertebrate phyla including Annelida, Arthropoda, Mollusca.
- Students will learn major body parts/organizations of important members of the above phyla viz. insect vision, termite social life, nervous system torsion in Gastropods that reflects evolutionary process in members of more advanced organisms.
- Students will be able to learn how non-chordate to chordate evolution occurred through emergence of lower chordates.



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- Students will be familiar to various members of higher invertebrate phyla and different body systems of these organisms which will help them learn how different body parts developed in members of higher phyla through continuous evolutionary process.
- This content will also help to understand how chordates emerged from non-chordates through the appearance of lower chordates.

C4T and C4P (Cell Biology and Cell Biology Practical)

Outcomes

- This content will introduce students to basic structure and function of cells and various important cell organelles including plasma membrane, cell junctions, mitochondria, Golgi apparatus, endoplasmic reticulum, centrosomes, and others.
- Students will gain idea regarding molecular motors that help transport of molecules inside the cell. They will also be introduced to how cells communicate to each other via certain receptors.
- Students will be able to learn cell cycle and its regulation, how it is controlled and how disruption in genes that control cell cycle progression leads to abnormal cell growth progressing to cancer.
- Students will learn characteristics of various cell division stages, behaviors of chromosomes through cell division.
- Students of will learn basic staining techniques of certain cell organelles including mitochondria as well as of DNA and inactivated chromosomes in human females.

C5T and C5P (Chordates and Chordates Lab)



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- Students will learn general characteristics of Chordata, structures and features of certain chordate organs.
- Students will be able to learn certain chordate characteristics and body systems including metamorphosis and parental care in amphibia, poison apparatus and biting mechanisms in snakes, aerodynamics of birds' flight and skeletal derivatives of mammals.
- Students will develop ideas regarding geological time scale and various animals and plant groups that appeared at different times of it. They will be able to learn about fossils and process of fossilization.
- Students will be able to identify various important chordate specimens including poisonous and non-poisonous snakes and different class specific body structures of various chordate organisms.

C6T and C6P (Animal Physiology: Controlling & Coordinating Systems and Animal Physiology: Controlling & Coordinating SystemsLab)

- Students will learn structures of various kinds of tissues, bones and cartilages, nerve cells and ultrastructure of skeletal muscles as well.
- They will learn properties of nerve impulse, propagation of nerve impulse and synaptic transmission, physiology of skeletal muscle contraction and characteristic features of muscle fiber.
- Students will learn histology and function of reproductive organs and various endocrine glands that secrete important hormones in our body.
- They will also develop ideas regarding various categories of hormones and how they function at different targets.
- Students will gain knowledge regarding identification of sections of various body organs.



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• Students will learn how to make permanent slide preparations of certain tissues through microtomy technique.

C7T and C7P (Fundamentals of Biochemistry and Fundamentals of Biochemistry Lab)

Outcomes

- Students will be introduced to structure and properties of four major kinds of biomacromolecules viz. nucleic acids, proteins, carbohydrates and lipids.
- They will be able to learn structure and function of the building blocks of all of these four major classes of biomolecules.
- They will learn how these monomeric building blocks bond together to form higher order structures.
- Students will grow ideas regarding metabolism of all of these biomolecules.
- Students will learn how enzymes function to accelerate biological processes and how they play important roles in metabolic pathways.
- It will also help students develop idea regarding electron transport chain in mitochondria.
- They will be able to estimate protein conc. in a given sample, perform qualitative test for carbohydrates, proteins and lipids.
- They will also learn certain enzymatic activity tests and SDS-PAGE for protein separation.

C8T and C8P (Comparative anatomy of vertebrates and Comparative anatomy of vertebrates Practical)

Outcomes

• Students will be able to learn structure, function and anatomy of related body organs/structures across different vertebrate classes.



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- Students will also learn how similar body organs across different classes of vertebrates are built on a basic pattern reflecting convergent evolution.
- Students will gain hands on training to understand how circulatory system, nervous system, digestive system, respiratory system and other major body systems are built on a common pattern through various vertebrate classes by performing laboratory works.
- How sensory organs serve to respond to various stimuli across various vertebrate classes will be another major area that students will be able to master.

C9T and C9P(Animal Physiology and Life Sustaining Systems and Practical)

Outcomes

- Students will learn how different body systems work in our body for sustenance of life.
- Students will learn how digestive system, respiratory system, circulatory system, excretory system and thermoregulatory system work inside our body and perform their respective functions to maintain homeostasis.
- They will gain knowledge regarding physiology and function of heart and cardiac system as well.
- Students will learn principles of blood group determination and will be able to perform blood grouping of their own and other's blood samples.
- Students will learn to perform total count of RBC and will be able to distinguish and count various WBCs which is the basis for differential count experiment.
- They will also learn to measure concentration of hemoglobin in a given blood sample and record blood pressure using sphygmomanometer.

C10T and C10P(Immunology and Immunology Practical)



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- Students will learn basic concepts of health and diseases, types of immunity and cells that comprise the immune system.
- Students will gain idea regarding self vs non-self-recognition, antigens, antibodies, types and structures of various antibodies and their occurrence. They will also learn the role of MHC molecules in immune system, components of complement system and how pathways of complement activation merge to destroy pathogens.
- Basic ideas of hypersensitivity and autoimmune diseases will also be provided.
- Students will be able to develop concepts of immunological methods including hybridoma technology and monoclonal antibody production.
- Students will develop concepts regarding vaccine types and types of immunization.

C11T and C11P(Molecular Biology and Molecular BiologyLab)

- Students will learn chemical nature of genes, nucleic acids and structure of DNA and RNA.
- They will also learn how DNA is replicated inside cell and how the genetic information present in DNA is transcribed into an RNA and eventually a protein through translation process by ribosomes.
- Students will develop ideas how eukaryotic genes differ from prokaryotic counterparts and how post transcriptional modifications process eukaryotic mRNAs.
- They will also learn how gene functions are regulated through operon concept and regulation of eukaryotic genes at the level of transcription.
- They will be also trained in certain techniques of molecular biology including PCR and blotting techniques.
- They will study and learn behaviors of certain giant chromosomes. They will be able to measure nucleic acid concentration in a given sample and will also be able to check purity of any given sample.
- They will also learn DNA separation technique through agarose gel electrophoresis.



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C12T and C12P(Genetics and GeneticsLab)

Outcomes

- Students will learn principles and extensions of Mendelian Genetics, linkage and crossing over and how these processes are important in establishing genetic variety.
- Mutation, its types, molecular mechanism of induced mutation and chromosomal aberration are the key concepts that students will develop.
- Students will learn the process of sex determination in fruit fly and human.
- They will have ideas about genetic recombination processes in bacteria and viruses as well as f selfish genes.
- They will learn to create conjugation-based linkage maps, identify syndromes based on chromosomal aberrations in human and fruit fly.
- Students will learn to mode of inheritance of certain traits in human through pedigree analysis.

C13T and C13P(Developmental Biology and Developmental Biology Lab)

- Students will be enabled to develop ideas regarding phases of development, the role of cell-cell interaction and differential gene expression in growth and development.
- They will learn processes of gametogenesis, fertilization, blastula formation, gastrulation in frog and chick following certain patterns of growth.
- The role of extraembryonic membranes and formation of placenta and its role in fetal development will also be introduced to students.
- They will be introduced to the topic of formation of various organs, regeneration, teratogenesis and potency of fetal cells during embryonic development.
- They will be able to identify chick and drosophila embryo at various stages of development.



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• They will be able to grow and culture drosophila in the laboratory for studying developmental stages.

C14T and C14P(Evolutionary Biology and Evolutionary Biology Lab)

- Students will develop concepts of evolution, how primitive biomacromolecules formed in early earth's atmosphere and how they self-assemble to create self-replicating life forms.
- They will also have an overview of geological time scale and various life components during major time milestones.
- Students will learn concepts of population genetics, gene flow in population, genetic drift, species concept, isolating mechanisms leading to origin of new species and causes and process of extinction.
- Students will be introduced to origin and evolution of man.
- Students will be able to identify fossils, study Hardy-Weinberg Law by chi square analysis.
- They will also be able to perform homology and analogy analysis of provided specimens.



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