

**RANI CHANNAMMA UNIVERSITY, BELAGAVI**



**RANI CHANNAMMA UNIVERSITY, BELAGAVI**

**PROGRAM /COURSE STRUCTURE AND SYLLABUS**  
as per the Choice Based Credit System (CBCS) designed in  
accordance with  
Learning Outcomes-Based Curriculum Framework (LOCF) of  
National Education Policy (NEP) 2020  
for  
**Bachelor of Science (Botany)**

**w.e.f.**

**Academic Year 2021-22 and onward**

## Program Learning Outcomes

The students graduating with the Degree B.Sc. Three years and B. Sc. (Honors) Botany should be able to acquire.

**Core competency:** Students will acquire core competency in the subject Botany, and allied subject areas.

1. The student will be able to identify major groups of plants and compare the characteristics of lower (e.g. algae and fungi) and higher (angiosperms and gymnosperms) plants.
2. Students will be able to use the evidence-based comparative botany approach to explain the evolution of organisms and understand the genetic diversity on the earth. The students will be able to explain various plant processes and functions, metabolism, concepts of gene, genome, and how organism's function is influenced at the cell, tissue, and organ level.
3. Students will be able to understand the adaptation, development, and behavior of different forms of life.
4. The understanding of networked life on earth and tracing the energy pyramids through nutrient flow is expected from the students.
5. Students will be able to demonstrate the experimental techniques and methods of their area of specialization in Botany.

### Semester I

Year	I	Course Code: 21BSC1BOT1L Course Title: Microbial diversity and Technology	Credits	04
Sem.	1		Hours	52
Course Pre-requisites, if any		NA		
Formative Assessment Marks: 40		Summative Assessment Marks: 60	Duration of ESA: .02 hrs.	
Course Outcomes	<ol style="list-style-type: none"> <li>1. Understand the fascinating diversity, evolution, and significance of microorganisms.</li> <li>2. Comprehend the systematic position, structure, physiology and life cycles of microbes and their impact on humans and environment</li> <li>3. Gain laboratory skills such as microscopy, microbial cultures, staining, identification, preservation of microbes for their applications in research and industry.</li> </ol>			

### OPEN-ELECTIVE SYLLABUS :

Year	I	Course Code: 21BSC1BOT1 Course Title: PLANTS AND HUMAN WELFARE	Credits	03
Sem.	II		Hours	40
Course Pre-requisites, if any		NA		
Formative Assessment Marks: 40		Summative Assessment Marks: 60	Duration of ESA: .02 hrs.	
Course Outcomes	<p>At the end of the course the student should be able to:</p> <ol style="list-style-type: none"> <li>1. To make the students familiar with economic importance of diverse plants that offer resources to human life.</li> <li>2. To make the students known about the plants used as food, medicinal value and also plants source of different economic value.</li> <li>3. To generate interest amongst the students on plants importance in day today life, conservation, ecosystem and sustainability.</li> </ol>			

## Semester: II

I	Course Code: 21BSC2BOT2L	Cred
2	Course Title: Diversity of non flowering plants	Hour

Pre-requisites, if any	NA	Duration of ESA
Formative Assessment Marks: 40	Summative Assessment Marks: 60	

Course Outcomes	<p>After completing this course satisfactorily, a student will be able to:</p> <ol style="list-style-type: none"> <li>1. Understand the diversity and affinities among Algae, Bryophytes, Pteridophytes and Gymnosperms.</li> <li>2. Understand the morphology, anatomy, reproduction and life cycle across Algae, Bryophytes and Pteridophytes and Gymnosperms, and their ecological and evolutionary significance.</li> <li>3. Obtain laboratory skills/explore non-flowering plants for their commercial applications.</li> </ol>
-----------------	--

## OPEN-ELECTIVE SYLLABUS:

Year	I	Course Code: 21BSC1BOT2	Credits	03
Sem.	II	Course Title: Bio-fuels	Hours	40
Course Pre-requisites, if any		NA	Duration of ESA: .02 hrs.	
Formative Assessment Marks: 40		Summative Assessment Marks: 60		
Course Outcomes	<p>At the end of the course the student should be able to:</p> <ol style="list-style-type: none"> <li>1. To make the students familiar with Bio-fuel plant species cultivation for commercial exploitation.</li> <li>2. To make the students known about the Bio-fuel used in automobile industries and solving fuel problems in feature.</li> <li>3. To generate interest amongst the students to know the importance of Bio-fuel in day today life and economic wellbeing.</li> </ol>			

  
 Coordinator  
 IQAC  
 Vijaya Mahantesh Krupaposhha S.R. Vastrad  
 Arts, Science & Vijay Shankarappa Bellihal  
 Commerce College, Hungund-587118  
 Dist: Bagalkote State: Karnataka

  
 PRINCIPAL  
 Vijaya Mahantesh Krupaposhha  
 S.R. Vastrad Arts, Science And Vijay  
 Shankarappa Bellihal Commerce College  
 Hungund-587118 (Dist: Bagalkot-Karnataka)

## Program Learning Outcomes

The students graduating with the Degree B.Sc. Three years and B. Sc. (Honors) Botany should be able

to acquire.

**Core competency:** Students will acquire core competency in the subject Botany, and allied subject areas.

1. The student will be able to identify major groups of plants and compare the characteristics of lower (e.g. algae and fungi) and higher (angiosperms and gymnosperms) plants.
2. Students will be able to use the evidence-based comparative botany approach to explain the evolution of organisms and understand the genetic diversity on the earth. The students will be able to explain various plant processes and functions, metabolism, concepts of gene, genome, and how organism's function is influenced at the cell, tissue, and organ level.
3. Students will be able to understand the adaptation, development, and behavior of different forms of life.
4. The understanding of networked life on earth and tracing the energy pyramids through nutrient flow is expected from the students.
5. Students will be able to demonstrate the experimental techniques and methods of their area of specialization in Botany.

**B.Sc. BOTANY: Semester - 3**

### **Theory: Discipline Specific Core Course**

#### **(DSCC) Title of the Course and Code:**

#### **BOT-A-3.1: PLANT ANATOMY AND DEVELOPMENT BIOLOGY**

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures/ Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
BOT A-3.1	DSCC	Theory	04	04	52 hrs	4hrs	40	60	100

#### **Course Outcomes:**

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

1. Observation of variations that exist in internal structure of various parts of a plant and as well as among different plant groups in support for the evolutionary concept.
2. Skill development for the proper description of internal structure using botanical terms, their identification and further classification.
3. Induction of the enthusiasm on internal structure of locally available plants.
4. Understanding various levels of organization in a plant body with an outlook in the relationship between the structure and function through comparative studies.
5. Observation and classification of the floral variations from the premises of college and house.
6. Understanding the various reproductive methods sub-stages in the life cycle of plants
7. Observation and classification of the embryological variations in angiosperms.  
Enthusiasm to understand evolution based on the variations in reproduction among plants.



**RANI CHANNAMMA UNIVERSITY, BELAGAVI**

**PROGRAM /COURSE STRUCTURE AND SYLLABUS**  
as per the Choice Based Credit System (CBCS) designed in accordance with  
**Learning Outcomes-Based Curriculum Framework (LOCF) of**  
**National Education Policy (NEP) 2020**

for

**Bachelor of Science (Botany)**

**B.Sc III and IV sem**

w.e.f.

**Academic Year 2022-23 and onwards**

RANI CHANNAMMA UNIVERSITY BELGAVI

B.Sc III SEMESTER

SUBJECT: BOTANY (OPEN ELECTIVE COURSE) OEC CODE:-003 BOT 051

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures / Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
003 BOT 051	OEC	Theory	03	03	42 Hrs	2 Hrs	40	60	100

OEC-3 (OEC for other students): 003 BOT 051

Title of the Paper: BOTANICAL GARDEN AND LANDSCAPING

Learning outcomes:

After the completion of this course the learner will be able to: Apply the basic principles and components of gardening

- Conceptualize flower arrangement and bio-aesthetic planning
- Design various types of gardens according to the culture and art of bonsai
- Distinguish between formal, informal and free style gardens
- Establish and maintain special types of gardens for outdoor and indoor landscaping

Keywords:

Gardening, Landscaping, Flower arrangement, Vertical gardens, Roofgardens, Computer aided designing

RANI CHANNAMMA UNIVERSITY BELGAVI  
B.Sc IV SEMESTER OPEN ELECTIVE COURSE (OEC-4)

PAPER: MEDICINAL PLANTS IN HEALTH CARE

SUBJECT: BOTANY (OEC CODE:-004 BOT 051)

Course No.	Type of Course	Theory / Practical	Credits	Instruction hour per week	Total No. of Lectures / Hours / Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
004 BOT 051	OEC	Theory	03	03	42 Hrs	2 Hrs	40	60	100

OEC-4 (OEC for other students): 004 BOT 051

Title of the Paper: MEDICINAL PLANTS IN HEALTH CARE

Learning outcomes:

On completion of this course, the students will be able to: Recognize the basic medicinal plants

- Apply techniques of conservation and propagation of medicinal plants.
- Setup process of harvesting, drying and storage of medicinal herbs
- Propose new strategies to enhance growth of medicinal herbs considering the practical issues pertinent to India

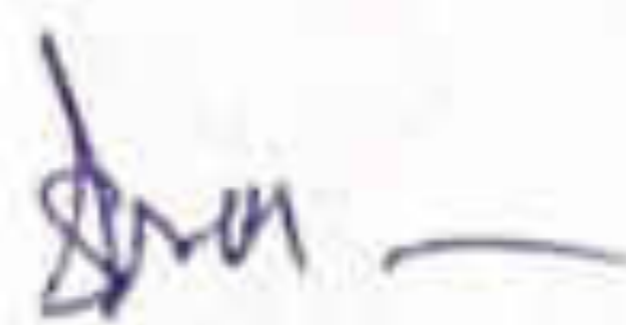
Keywords:

Medicinal plants, Traditional systems, endangered medicinal plants, Ethnobotany, Folk medicines, Ethnic communities



  
PRINCIPAL

Vijaya Mahantesh Krupapohit  
S.R.Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist:Bagalkot-Karnataka)



Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist:Bagalkote State:Karnataka



**RANI CHANNAMMA UNIVERSITY,  
BELAGAVI**

**PROGRAM /COURSE STRUCTURE AND  
SYLLABUS**

**As per the Choice Based Credit System (CBCS)  
designed in accordance with Learning Outcomes-  
Based Curriculum Framework (LOCF) of  
National Education Policy (NEP) 2020**

**For**

**Bachelor of Science (Basic/Hons)-  
Zoology**

**w.e.f.**

**Academic Year 2021-22 and onwards**



## Semester II: Zoology Course Lab Content

Course Title/Code: Biochemistry and Physiology	Course Credits: 2
Course Code: 21BSC2C2ZOO2P	L-T-P per week: 0-0-4
Total Contact Hours: 56	Duration of ESA: 4 Hours
Formative Assessment Marks: 15	Summative Assessment Marks: 35

### Course Outcomes (COs):

- \* At the end of the course the student should be able to understand:  
Basic structure of biomolecules through model making.
- Develop the skills to identify different types of blood cells.
- Enhance basic laboratory skill like keen observation, analysis and discussion. Learn the functional attributes of biomolecules in animal body.
- Know uniqueness of enzymes in animal body and their importance through enzyme kinetics.

  
Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka



  
PRINCIPAL

Vijaya Mahantesh Krupapohit  
S.R.Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkote-Karnataka)

### Program Learning Outcome

Students enrolled in B.Sc. (Hons.) degree program in Zoology will study and acquire complete knowledge of disciplinary as well as allied biological sciences. At the end of graduation, they should possess expertise which will provide them competitive advantage in pursuing higher studies from India or abroad; and seek jobs in academia, research or industries.

Students should be able to identify, classify and differentiate diverse chordates and non-chordates based on their morphological, anatomical and systemic organization. They will also be able to describe economic, ecological and medical significance of various animals in human life. This will create a curiosity and awareness among them to explore the animal diversity and take up wild life photography or wild life exploration as a career option. The procedural knowledge about identifying and classifying animals will provide students professional advantages in teaching, research and taxonomist jobs in various government organizations; including Zoological Survey of India and National Parks/Sanctuaries.

Acquired practical skills in biotechnology, biostatistics, bioinformatics and molecular biology can be used to pursue career as a scientist in drug development industry in India or abroad. Our students will be acquiring basic experimental skills in various techniques in the fields of genetics; molecular biology; biotechnology; - qualitative and quantitative microscopy; enzymology and analytical biochemistry. These methodologies will provide extra edge to our students, who wish to undertake higher studies. In-depth knowledge and understanding about comparative anatomy and developmental biology of various biological systems; and learning about the

### III Semester BSc Zoology Core Course Content

Course Title/Code: <b>Molecular Biology, Bioinstrumentation &amp; Techniques in Biology</b>	Course Credits: <b>4</b>
Course Code: <b>DSCC5ZOOT3</b>	L-T-P per week: <b>4-0-0</b>
Total Contact Hours: <b>56</b>	Duration of ESA: <b>2Hours</b>
Formative Assessment Marks: <b>40</b>	Summative Assessment Marks: <b>60</b>

#### Course Outcomes (COs):

At the end of the course the student should be able to understand:

1. After successful accomplishment of the course, the learners will be able to acquire better understanding and comprehensive knowledge regarding most of the essential aspects of Molecular Biology subject which in turn will provide a fantastic opportunity to develop professional skill related to the field of molecular biology.
2. The course will mainly focus on the study of principal molecular events of cell incorporating DNA Replication, Transcription and Translation in prokaryotic as well as eukaryotic organisms.
3. Acquiring knowledge on instrumentation and techniques in biology.

## Core Course Lab Content

### Semester III (Practical III)

Course Title: <b>Molecular Biology, Bioinstrumentation and Techniques in Biology</b>	Course Credits: 2
Course Code: DSCC5ZOO3	L-T-P per week: 0-0-4
Total Contact Hours: <b>56</b>	Duration of ESA: 4Hours
Formative Assessment Marks: <b>25</b>	Summative Assessment Marks: <b>25</b>

#### Course Outcomes (COs):

At the end of the course the student should be able to:

1. At the end of the course, students will be able to understand the applications of biophysics and principle involved in bio-instruments.
2. Understand the methodology involved in biotechniques.
3. Students can demonstrate knowledge and practical skills of using instruments in biology and medical field.
4. They can perform techniques involved in molecular biology and diagnosis of diseases.

### Semester: III Zoology

#### Open Elective Course Content

Course Title: <b>ENDOCRINOLOGY</b> Course Code: <b>OEC5ZOOT3</b>	Course Credits: <b>3</b>
Total Contact Hours: <b>42</b>	Duration of ESA: 3Hours
Formative Assessment Marks: <b>40</b>	Summative Assessment Marks: <b>60</b>
Model Syllabus Authors:	

#### Course Outcomes (Cos):

At the end of the course the student should be able to:

Differentiate among endocrine, paracrine and autocrine systems.

1. Describe the different classes and chemical structures of hormones.
2. Identify the glands, organs, tissues and cells that synthesize and secrete hormones, hormone precursors and associated compounds.
3. Identify and discuss the integration of the endocrine system in general with focus on specific interactions.
4. Explain the consequences of under-and overproduction of hormones.

IV Semester, B.Sc, (Hons) Zoology

Course Title: <b>Gene Technology Immunology and Computational Biology</b>	Course Code: <b>DSCC5ZOOT4</b>
Course Type: <b>Discipline Core Theory, L-T-P: 4-0-0</b>	Course Credits: <b>4</b>
Total Contact Hours: <b>56</b>	Duration of ESA: <b>2Hrs.</b>
Formative Assessment Marks: <b>40</b>	Summative Assessment Marks: <b>60</b>

**Course Outcomes (COs):**

At the end of the course the student should be able to:

1. Acquaint knowledge on versatile tools and techniques employed in genetic engineering and recombinant DNA technology.
2. An understanding on application of genetic engineering techniques in basic and applied experimental biology.
3. To acquire a fundamental working knowledge of the basic principles of immunology.
4. To understand how these principles, apply to the process of immune function.
5. Use, and interpret results of, the principal methods of statistical inference and design; helps to communicate the results of statistical analyses accurately and effectively; helps in usage of appropriate tool of statistical software.

**Semester: IV**

**Course Lab Content**

Course Title: <b>Gene Technology, Immunology and Computational Biology</b>	CourseCredits: <b>02</b>
Course Type: <b>Minor Discipline Core Practical, L-T-P:0-0-4</b>	CorseCode: <b>DSCC5ZOOP4</b>
Total Contact Hours: <b>56</b>	DurationofESA: <b>4Hours</b>
Formative Assessment Marks: <b>25</b>	Summative Assessment Marks: <b>25</b>

**Course Outcomes (COs)**

At the end of the course the student should be able to:

1. Accurately, safely and appropriately use all the equipment regularly used in Molecular Biology (DNA manipulation, including balances, pipettes, electrophoresis and centrifuges).
2. Prepare chemical solution and reagents to the precision appropriate to the task.
3. Demonstrate knowledge of the biochemical basis underpinning the molecular biology techniques.

*JW*

Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka



*SK*

PRINCIPAL

Vijaya Mahantesh Krupapohit  
S.R.Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkot- Karnataka)

Open Elective  
Course Content

**Semester: IV Zoology**

Course Title: Animal Behaviour Course Code: OEC5ZOOT4	Course Credits: 3
Total Contact Hours: 42	Duration of ESA: 2 Hours
Formative Assessment Marks: 40	Summative Assessment Marks: 60
Model Syllabus Authors:	

**Course Outcomes  
(COs):**

At the end of the course the students will be able to:

1. Examine and critically to evaluate the emergence of ideas that have shaped how we observe and collect data on animal behavior.
2. Understand the main historical ideas that underpin animal behaviour theory
3. Critically review hypotheses to explain animal behavior
4. Understand different methods for collecting data on animal behaviour
5. Have advanced their written and oral presentation skills.

# COURSE OUTCOMES (COS)

DEPARTMENT OF HISTORY

BA : Semester 3

DSC-5



Course Title: <b>Political History of India(From Indus Culture upto 1206)</b>	
Total contact Hours: <b>39-42</b>	Course Credits: <b>3</b>
Formative Assessment Marks: <b>40</b>	Duration of ESA/Exam: <b>60</b>
Model Syllabus Authors:	Summative Assessment Marks:

Course Pre-requisites(s): History and Culture of Political History of India

## Course Outcomes (Cos):

At the end of the course the students should be able to:

(Write 3-7 course outcomes. Course outcomes are statements of observable student's actions that serve as evidence of knowledge, skills and values acquired in this course)

- Understand the history and culture of Political History of India region.
- Analyze the importance of causes for backwardness of this region.
- Understand the influence of political influence on the people and culture of this region.
- Understand the political, Social, Religious and Cultural history of the region.
- Appreciate the divergent cultural and communal harmony of this region.

  
Coordinator  
I Q A C

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka

  
PRINCIPAL

Vijaya Mahantesh Kurpoocha  
S.R.Vastrad Arts, Science And Vjaya  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkot-Karnataka)

BA III Semester  
History of Bombay Karnataka  
DSC-6



Course Title: <b>History of Bombay Karnataka</b>	
Total contact Hours: <b>39-42</b>	Course Credits: <b>3</b>
Formative Assessment Marks: <b>40</b>	Duration of ESA/Exam: <b>60</b>
Model Syllabus Authors:	Summative Assessment Marks:

Course Pre-requisites(s): History and Culture of History of Bombay Karnataka.

**Course Outcomes (Cos):**

At the end of the course the students should be able to:

(Write 3-7 course outcomes. Course outcomes are statements of observable student's actions that serve as evidence of knowledge, skills and values acquired in this course)

- Understand the history and culture of History of Bombay Karnataka.
- Analyze the importance of causes for backwardness of this region.
- Understand the influence of political influence on the people and culture of this region.
- Understand the political, Social, Religious and Cultural history of the region.
- Appreciate the divergent cultural and communal harmony of this region.

  
Coordinator  
I Q A C  
Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka

  
PRINCIPAL  
Vijaya Mahantesh Krupapohit  
S.R.Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkot-Karnataka)

Open Elective -3

Course Category: Elective course 2



Title of the Course: <b>Introduction to Epigraphy</b>	
Total contact Hours: <b>39-42</b>	Course Credits: <b>3</b>
Formative Assessment Marks: <b>40</b>	Duration of ESA/Exam: <b>60</b>
Model Syllabus Authors:	Summative Assessment Marks:

Course Pre-requisites(s): Freedom Movement in Karnataka (1800-1947)

**Course Outcomes (Cos):**

At the end of the course the students should be able to:

(Write 3-7 course outcomes. Course outcomes are statements of observable student's actions that serve as evidence of knowledge, skills and values acquired in this course)

- Understand the Freedom Movement in Karnataka (1800-1947)
- Analyze the importance of causes for backwardness of this region.
- Understand the influence of Freedom Movement in Karnataka (1800-1947)
- Understand the political, Social, Religious and Cultural history of the region.
- Appreciate the divergent cultural and communal harmony of this region.

  
Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka

  
PRINCIPAL

Vijaya Mahantesh Krupapohit  
S.R.Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkot-Karnataka)



Semester 4



Title of the Course: <b>History of Medieval India</b>	
Total contact Hours: <b>39-42</b>	Course Credits: <b>3</b>
Formative Assessment Marks: <b>40</b>	Duration of ESA/Exam: <b>60</b>
Model Syllabus Authors:	Summative Assessment Marks:

Course Pre-requisites(s): Political History Medieval India (from 1206 to 1761).

**Course Outcomes (Cos):**

At the end of the course the students should be able to:

(Write 3-7 course outcomes. Course outcomes are statements of observable student's actions that serve as evidence of knowledge, skills and values acquired in this course)

- Understand the Political History Medieval India (from 1206 to 1761).
- Analyze the importance of causes for backwardness of this region.
- Understand the influence of Political History Medieval India (from 1206 to 1761).
- Understand the political, Social, Religious and Cultural history of the region.
- Appreciate the divergent cultural and communal harmony of this region.

  
Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka

  
PRINCIPAL

Vijaya Mahantesh Krupapohit  
S.R.Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkot-Karnataka)

## BA Semester 4

Course Title: <b>Cultural History of India (From Saraswati - Indus Culture to 1206 CE).</b>	
Total contact Hours: <b>39-42</b>	Course Credits: <b>3</b>
Formative Assessment Marks: <b>40</b>	Duration of ESA/Exam: <b>60</b>
Model Syllabus Authors:	Summative Assessment Marks:

Course Pre-requisites(s): Cultural History of India (From Saraswati - Indus Culture to 1206 CE).

### Objectives in this lesson

Students investigate various facets of Indian culture. Throughout the chapter, emphasis will be on the concept and importance of Indian culture through various ages of India. After studying this lesson you will be able to:

- understand the concept and meaning of culture;
- establish the relationship between culture and civilization;
- establish the link between culture and heritage;
- discuss the role and impact of culture in human life.
- describe the distinctive features of Indian culture;
- identify the central points and uniqueness of Indian culture;
- explain the points of diversity and underlying unity in it; and
- trace the influence and significance of geographical features on Indian culture.

**Course Outcomes (Cos):** At the end of the course the students should be able to:

(Write 3-7 course outcomes. Course outcomes are statements of observable student's actions that serve as evidence of knowledge, skills and values acquired in this course)

- Understand the History of Cultural History of India (From Saraswati - Indus Culture to 1206 CE).
- Analyze the importance of causes for backwardness of this region.
- Understand the influence of History of Cultural History of India (From Saraswati - Indus Culture to 1206 CE).
- Understand the political, Social, Religious and Cultural history of the region.
- Appreciate the divergent cultural and communal harmony of this region.

BA - IV SEMESTER  
OPEN ELECTIVE



Course Title: Freedom Movement in India (1885-1947)	
Total contact Hours: 39-42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 60
Model Syllabus Authors:	Summative Assessment Marks:

Course Pre-requisites(s): History of Freedom Movement in India (1885-1947).

**Course Outcomes (Cos):**

At the end of the course the students should be able to:

(Write 3-7 course outcomes. Course outcomes are statements of observable student's actions that serve as evidence of knowledge, skills and values acquired in this course)

- Understand the History of Freedom Movement in India (1885-1947). Analyse the importance of causes for backwardness of this region.
- Understand the influence of History of Freedom Movement in India (1885-1947).
- Understand the political, Social, Religious and Cultural history of the region.
- Appreciate the divergent cultural and communal harmony of this region.

  
Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka

  
PRINCIPAL

Vijaya Mahantesh Krupapohit  
S.R.Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkot-Karnatak)




**Department of History and Archaeology  
Programme Outcome of Bachelor of Arts (B.A)**

1. Demonstrate knowledge of the chronology, narrative, major events, personalities and turning points of the history of the India.
2. Provide multi-causal explanations of major historical development based on a contextualized analysis of Modern Europe.
3. Correctly extract evidence from primary sources on Indian History by a analyzing and evaluating them in relation to their present cultural context and use that evidence to build and support an argument.
4. Present the own need and facilities. Some try to forget History where as some view History as per their necessity. All the sage and saints through their saying portray history is very good it means that everyone is utilizing history according to their perspective only thing is we don't realize it as it is past and parcel of our life.
5. In this way, History always is alive giving a direction to presents hence history cannot be considered as only a syllabus to study. Countries may be ruled or became independent anytime but the feelings of patriotism remain in the hearts of the people. History provors people about going independence whenever they are ruled by.
6. One historical truth is past condition creating present and it can giving new birth to future and so it is important to remind it.

**History and Archaeology Specific Outcomes:**

1. After completion of this course they gather knowledge about the socio-cultural heritage of India and world as well.
2. Help to grow national and international understanding among history students.
3. The Department of History and Archaeology outlined program outcomes for the Holistic Knowledge and culture, citizens, Humanities Development of the Students like capability of independent leaning.
4. Student seeking Admission for BA Program is expected to imbue with following quality which helps them in their future life to achieve the expected Goals.
5. Careers options for students to engage as educators, archivists, producers of multimedia material and even as a researcher in historical sites and museums, historical organizations, cultural Resources Management and historic preservation etc.
6. History helps them in knowing the past people, their culture, their religious, and social systems, and transforms them into responsible citizen to make better future.
7. Show the ability to distinguish the primary sources from secondary sources, and formulate proper arguments with appropriate evidences .

- 
8. The BA graduates can pursue B.Ed. course and Opt- Teaching Career in the Schools. Also they can do post graduate Studies in their Respective Subjects studies in "Under Graduate" level.
  9. After their Post Graduation they may do M.Phil or Ph.D. and take teaching as their career in higher Education intuitions like Degree colleges and Universities.
  10. Student can avail good opportunities to work in the field of archaeology , education and research
  11. Journalism, Tourism, LLB (Law) etc. They are eligible to appear for any competitive examination conducted by UPSC, KPSC, Other Government services and Public Service Commission exams, Indian Railway Board, etc.
  12. They also pursue their studies in doing MBA, MTA, PG Diploma in Epigraphy (PGDE), PG Diploma in Archaeology Culture and Tourism (PGDACT), PG Diploma in Tourism (PGDT), PG Diploma in Dr. B.R. Ambedkar, PG Diploma in Mahatma Gandhi, PG Diploma in Computer (PGDC) Certificate Courses of any discipline, For Students interested in History and Archaeology subject can do the job in the following areas: Historian, Archaeologist, Researcher, Tourist Guide, Journalist, Administrator, Justice, Lawyer, and Social worker.

**Learning Outcomes:** Upon successful completion of course students will have knowledge and skills to:

- Describe various stages of development archaeology as a discipline
- Describe the methods of excavations.
- Explain various dating methods employed by the archaeologists.
- Identify and contextualize the past objects found during the explorations and excavations of sites.
- Interpret aspects of past societies.
- Analyses the role institutions and individuals in the development of Indian archaeology.
- Undertake projects related to the search of places related to the epics, Sangama texts and the Jain and Buddhist tradition.

  
**Coordinator**  
IQAC

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka

  
**PRINCIPAL**

Vijaya Mahantesh Krupapohit  
S.R.Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkot-Karnataka)

**Department of History and Archaeology**  
**Essential Readings and Unit wise Course Outcome**



**I Semester**

Sl.No	Name of the Course	Course Outcome
1	History of India (Early Times to Kushanas)	<p><b>CO.01:</b> Identify Pre-historic and Proto historic sites, Geographical features tools, monuments and Sculptures of various dynasties.</p> <p><b>CO.02:</b> Find out the stone Ages of Paleolithic, Neolithic and Megalithic ages</p> <p><b>CO.03:</b> Learning about the history of Indus valley civilization enables a person to understand the ancient origins and how relevant they are to current issues.</p> <p><b>CO.04:</b> Make comparative studies of Harappa culture and Vedic culture. Students will Learn a Basic Narrative of Historical event in a Specific Region of the Ancient India in a Specific time frame.</p> <p><b>CO.05:</b> To Explain the qualities that made Alexander, Chandra Gupta Maury. Ashoka and Kaniska.</p> <p><b>CO.06:</b> Identify Harappa and historical places of Importance in the Indian Map</p>

**II Semester**

Sl.No	Name of the Course	Course Outcome
1	History of India (From Gupta Period To 1206)	<p><b>CO.01:</b> To Identify Archaeological and literary Sources to creating of Indian history. Learning about the Golden age of Gupta age and understand the personality of Samudragupta, Chandragupta Vikramaditya.</p> <p><b>CO.02:</b> Analyzing the established of Chalukyas dynasty and to explain the qualities of Pulikesi II and other rulers. Students will Identify specific features of Chalukyas art and Architecture.</p> <p><b>CO.03:</b> Analyzing the various personalities and</p>



		<p>contributions of Rastrakutas.</p> <p><b>CO.04:</b> Students will be comparative study of Pallava and Chola Architecture. And know the background of Making Local self government of Chola dynasty.</p> <p><b>CO.05:</b> Capable of the analyzing the arab invasion and effects on India. And Knowledge of Indian Philosophy. and importance of human value from Vachana literature.</p>
--	--	--

**III Semester**

Sl.No	Name of the Course	Course Outcome
1	History of India (From 1206 to 1526)	<p><b>CO.01:</b> To knowledge of political changes in the medieval India.</p> <p><b>CO.02:</b> Awareness the Art, Architecture, literature and theory of throne of medieval India</p> <p><b>CO.03:</b> Highlight the significance of the Vijayanagara and Bahamani Sultana's literary and wars.</p> <p><b>CO.04:</b> Knowledge of political process in the north Karnataka.</p> <p><b>CO.05:</b> Students will be learning a various religion principles and the comparative study of Sufis and other various philosophies.</p>

  
**Coordinator**  
**IQAC**

Vijaya Mahantesh Krupapohit S.R.Vastrad  
 Arts, Science & Vijay Shankarappa Bellihal  
 Commerce College, Hungund-587118  
 Dist: Bagalkote State: Karnataka

  
**PRINCIPAL**

Vijaya Mahantesh Kurpapoohit  
 S.R.Vastrad Arts, Science And Vijay  
 Shankarappa Bellihal Commerce College  
 Hungund-587118 (Dist: Bagalkot-Karnataka)

#### IV Semester

Sl.No	Name of the Course	Course Outcome
1	History of India (From 1526 to 1707)	<p><b>CO.01:</b> To Knowledge the origin and Established of Mughal empire in India.</p> <p><b>CO.02:</b> Capable the Explain political, Social and Religious theory of medieval India.</p> <p><b>CO.03:</b> To the explain the personalities that made Babur, Shersha, Akbar, successful emperors</p> <p><b>CO.04:</b> To know the foundation of Maratha Empire in South India. And Shivaji the great successful emperors</p>

#### V Semester Paper I

Sl.No	Name of the Course	Course Outcome
1	History of India (From 1707-1905)	<p><b>CO.01:</b> Knowledge of political transformations in colonial India</p> <p><b>CO.02:</b> To the explain the personalities and reforms of successful Governors</p> <p><b>CO.03:</b> Knowledge the details of various revenue systems, act and regulations to control India and changed as British India.</p> <p><b>CO.04:</b> Capable the Analyze the causes a factors of 1857 revolutions. and successful Viceroy's in India</p>

#### V Semester Paper II

Sl.No	Name of the Course	Course Outcome
1	History of Modern Europe, (1450 to 1914)	<p><b>CO.01:</b> Explain the causes behind the downfall of Eastern Roman Empire and the effects of the Decline of Constantinople and new geographical discoveries made by various navigators through new explorations through sea routes.</p> <p><b>CO.02:</b> Understanding and analyzing the role of Renaissance in the Modern Europe.</p> <p><b>CO.03:</b> Reformation movements and indentation of new materials and its impact around Europe and to various countries.</p> <p><b>CO.04:</b> Analyzing the reasons and factors of unification and revolutions in Europe.</p>





### VI Semester Paper I

Sl.No	Name of the Course	Course Outcome
1	History of Modern India (Indian National Movement and Post Independence India)	<p><b>CO.01:</b> Reformation movements and indentation of new materials and its impact around India.</p> <p><b>CO.02:</b> Making the Indian Constitution and understand about Principal organs of Indian Government.</p> <p><b>CO.03:</b> Analyzing the various factors led to role of moderates and extremist in during Indian National Movement.</p> <p><b>CO.04:</b> Explain the role of various plans of post independence India</p>

### VI Semester Paper II

Sl.No	Name of the Course	Course Outcome
1	History of Modern Europe, (1914 to 1990)	<p><b>CO.01:</b> Explain the various factors led to commercial Revolution in Europe.</p> <p><b>CO.02:</b> Analyzing the various wars including Ist and IInd World wars and Cold war.</p> <p><b>CO.03:</b> Knowledge of established league of Nations and UNO.</p> <p><b>CO.04:</b> Analyzing the Re-union of Germany and Disintegration of USSR and Gorbacheve a great Successful personality.</p>

### E-Sources

<https://youtu.be/DSj0RII5FY>, <https://youtu.be/4Gj4E1sPwQI>

<https://youtu.be/hZON599PZ> 8 <https://youtu.be/3NbdFzryzj4>

<https://youtu.be/SDN-b4RjPwM><https://youtu.be/rYtLT6quPv8>

  
Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R. Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka

**RESULTS**

**PRINCIPAL**  
Vijaya Mahantesh Krupapohit  
S.R. Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkot-Karnataka)

**B.A. Programme Outcomes**

By the end of the programme the students will be able to:

- Acquire domain knowledge.
- Study and analyze political contexts from critical and constructive prospective.
- Have a better understanding of the working of various political institutions including decentralized institutions state legislatures and parliament and relate this functioning to the greater cause of nation building as a responsible citizen.
- Assess how global national and regional development affects polity and society.
- To gain critical thinking and develop the ability to make logical inferences about socio-economic and political issues, on the basis of comparative and contemporary political discourses in India.
- Contemplate about national and international issues involving States having different political ideologies and historical contexts.
- Pursue higher education such as Post Graduate Studies and Research in Political Science and in other interdisciplinary areas to provide qualitative insights to create a better world.

**B.A. I Sem (DCS- 1) Basic Concepts in Political Science**

**Course Outcome:**

At the end of the course the students shall understand-

- Political Science, theoretically and will gain knowledge to explain and analyze politics at large.
- The dynamics of politics.
- To inculcate the democratic spirit.

**B.A. I Sem (DCS- 2) Political Theory**

**Course Outcomes:**

At the end of the course the students shall understand-

- The nature and relevance of Political Theory.
- The different concepts like Liberty, Equality, Justice and Rights.
- To reflect upon some of the important debates in Political Theory.

**B.A. I Sem (OEC- 1) Human Rights**

**Learning Outcomes:**

After completing this course students will be able to-

- Explain the basic concept of Human Rights and its various formulations.
- Have necessary knowledge and skills for analyzing, interpreting, and applying the Human Rights standards and sensitize them to the issues.
- Develop ability to critically analyze Human Rights situations around them.

### B.A. III Sem (DCS- 5) Indian Government and Politics

#### Course Outcome:

At the end of the course the students shall-

- Learn how the governments both at the union as well state level operate and what are its challenges.
- Understand the characteristics of power structures in India and the response of the political parties to the socio-political dynamics.
- Measure and understand the effects of judicial decisions on policy making and social development in India.



### B.A. III Sem (DCS- 6) Parliamentary Procedures in India

#### Course Outcome:

At the end of the course the students shall-

- Aim at understanding the procedural aspects of parliamentary system of governments.
- Learn about the privileges of people's representatives and match it with their performance.
- Understand the working of committees, budgetary aspects and deliberative mechanism within the parliament.

### B.A. III Sem (OEC) Understanding Gandhi

#### Course Outcome:

At the end of the course the students shall-

- Be able to explain the idea of truth and non-violence which is the foundation of Gandhian Philosophy.
- Know the position of Gandhi on issues like Hindu- Muslim relations, gender question, cow protection, caste and untouchability questions.
- Answer his reason for his choice of Swadeshi and his critique of modern Civilization.

### B.Sc. III Sem India and Indian Constitution

#### Course outcomes:

Upon completion of this course, students will be able to-

- Explain the philosophy and the structure of the Constitution.
- Measure the powers, functions and limitations of various offices under the Constitution.
- Demonstrate the values, ideals and the role of Constitution in a democratic India.

  
Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist:Bagalkote State:Karnataka

  
PRINCIPAL

Vijaya Mahantesh Kurpapeeth  
S.R.Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist:Bagalkot-Karnataka)



## Course Content Semester – I Mechanics and Properties of Matter

Course Title: Mechanics and Properties of Matter	Course Credits:4
Total Contact Hours: 52	Duration of ESA: 3 hours
Formative Assessment Marks: 30	Summative Assessment Marks: 70

### Programme Outcomes (POs)

- PO-1:** Discipline Knowledge: Knowledge of science and ability to apply to relevant areas.
- PO-2:** Problem solving: Execute a solution process using first principles of science to solve problems related to respective discipline.
- PO-3:** Modern tool usage: Use a modern scientific, engineering and IT tool or technique for solving problems in the areas of their discipline.
- PO-4:** Ethics: Apply the professional ethics and norms in respective discipline.
- PO-5:** Individual and teamwork: Work effectively as an individual as a team member in a multidisciplinary team.
- PO-6:** Communication: Communicate effectively with the stake holders, and give and receive clear instructions.

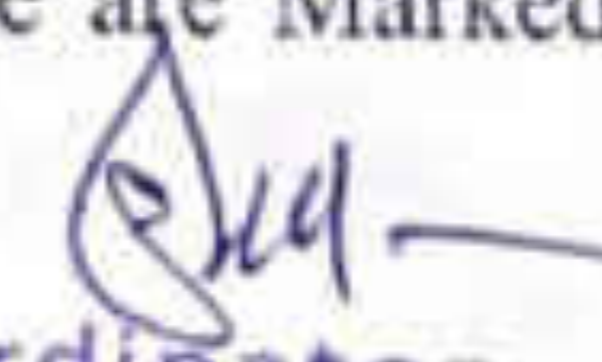
### Course Articulation Matrix:

#### Mapping of Course Outcomes (COs) with Program Outcomes (POs)

Course Outcomes (COs) (UGC guidelines)	1	2	3	4	5	6
CO-1: Will learn fixing units, tabulation of observations, analysis of data (graphical/analytical)	X	x				X
CO-2: Will learn about accuracy of measurement and sources of errors, importance of significant figures.	X	x				
CO-3: Will know how g can be determined experimentally and derive satisfaction.	X					
CO-4: Will see the difference between simple and torsional pendulum and their use in the determination of various physical parameters.	X			x	x	X
CO-5: Will come to know how various elastic moduli can be determined.	X				x	X
CO-6: Will measure surface tension and viscosity and appreciate the methods adopted.	X	x				
CO-7: Will get hands on experience of different equipment.	X	x	x		x	X

Course Articulation Matrix relates course outcomes of course with the corresponding program outcomes whose attainment is attempted in this course are Marked 'X' in the intersection cell if a course outcome addresses a particular program outcome.

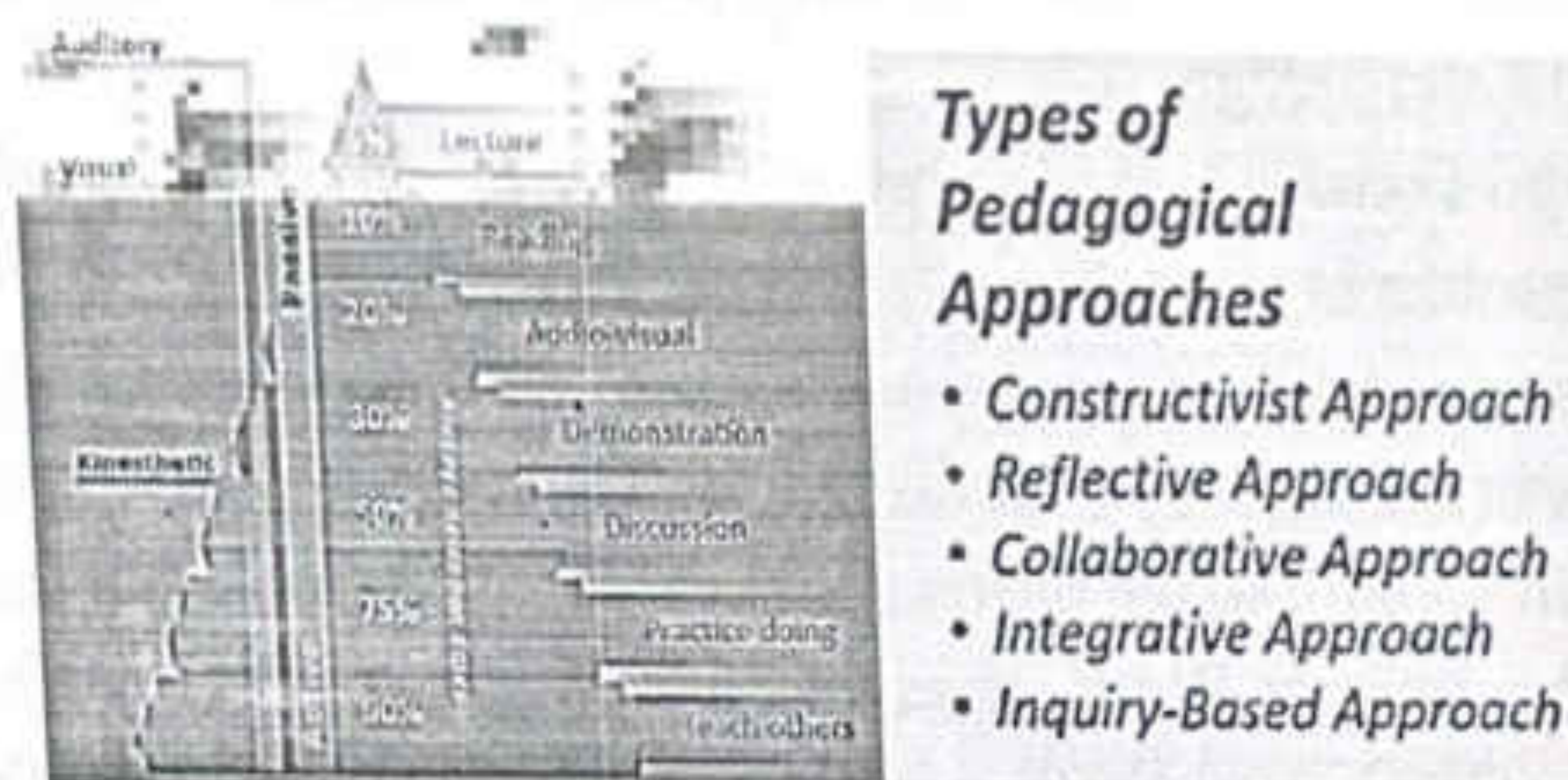


  
 Coordinator  
 IQAC

  
 PRINCIPAL

Vijaya Mahantesh Kurpaposhni  
 Arts, Science & Vijaya Shankarappa Bellihal  
 Commerce College, Hungund-587118  
 Dist: Bagalkote State: Karnataka

It is imperative that in the spirit of the NEP, several academic matters have to change. The most important among these will be the pedagogy that will be adopted in the Teaching-Learning experience to enrol, engage and involve and inspire the students. The learning that happens by employing different types of pedagogies is shown below, and thus need to be adopted in the teaching-learning process for effective cognition by the students using the Auditory, Visual and Kinaesthetic approaches:



Along with conventional teaching methods, Activity based pedagogies are seen to be extremely effective in achieving the Program Educational Objectives. The Committee has attempted to consider both the spirit of the NEP and the existing system and framed the syllabus within the Curriculum options offered by the Higher Education Council. The broad topic level syllabus for all the 5 years (10 semesters) for an integrated B.Sc + M.Sc program has been provided. However, a detailed syllabus has to be provided for the First Two Semester. Attempts have been made to sincerely bring in Activity based pedagogy. The activities have been listed and a few examples have been provided to guide the teacher of how to create their own activities that engage and illuminate students by group and self- involvement methods and a possible evaluation method.

## PROGRAM OUTCOMES

Exit with:	Credits Required
Certificate upon the Successful Completion of the First Year (Two Semesters) of the multidisciplinary Four-year Undergraduate Programme/Five-year Integrated Master's Degree Programme	44 - 48

1. **Discipline Knowledge:** Knowledge of science and ability to apply to relevant areas.
2. **Problem solving:** Execute a solution process using first principles of science to solve problems related to respective discipline.
3. **Modern tool usage:** Use a modern scientific, engineering and IT tool or technique for solving problems in the areas of their discipline.
4. **Ethics:** Apply the professional ethics and norms in respective discipline.
5. **Individual and teamwork:** Work effectively as an individual as a team member in a multidisciplinary team.
6. **Communication:** Communicate effectively with the stake holders, and give and receive clear instructions.

Exit with:	Credits Required
A <b>Diploma</b> upon the Successful Completion of the Second Year (Four Semesters) of the multidisciplinary Four-year Undergraduate Programme/Five-year Integrated Master's Degree Programme	88 - 96

1. **Discipline Knowledge:** Knowledge of science and ability to apply to relevant areas.
2. **Conduct investigations:** Conduct investigations of technical issues as per their level of understanding and knowledge.
3. **Problem solving:** Formulate and implement a solution process using first principles of science to solve problems related to respective discipline.
4. **Modern tool usage:** Apply a modern scientific, engineering and IT tool or technique for solving problems in the areas of their discipline.
5. **Ethics:** Apply and commit to the professional ethics and norms in respective profession.
6. **Individual and teamwork:** Work effectively as an individual in a multidisciplinary team.
7. **Communication:** Communicate effectively with the stake holders, and give and receive clear instructions.

Exit with:	Credits Required
<b>Basic Bachelor Degree</b> at the Successful Completion of the Third Year (Six Semesters) of the multidisciplinary Four- year Undergraduate Programme/Five-year Integrated Master's Degree Programme	132 - 144

1. **Discipline Knowledge:** Knowledge of basics of science and ability to apply the understanding of fundamentals of major discipline in solving complex problems.
2. **Conduct investigations:** Conduct investigations of issues in their respective disciplines and arrive at valid conclusions.
3. **Problem solving:** Implement a solution process using first principles of science to solve problems related to respective discipline.
4. **Modern tool usage:** Select and use a modern scientific, engineering and IT tool or technique for solving problems in the areas of their discipline.
5. **Environment and Society:** Evaluate the impact of scientific solutions on society and environment and the need for sustainable solutions.
6. **Ethics:** Demonstrate professional ethics, responsibilities and norms in respective profession.
7. **Individual and teamwork:** Work effectively as an individual as a team member and as a leader in a multidisciplinary team.
8. **Communication:** Communicate effectively with the stake holders, write and comprehend project reports and documentation, deliver effective presentations, and give and receive clear instructions.
9. **Project Management and Finance:** Apply the knowledge of scientific and technological principles to one's own work to manage projects in multidisciplinary settings.
10. **Lifelong Learning:** Engage in lifelong learning in the context of changing trends in respective discipline.

Exit with:	Credits Required
Bachelor Degree with Honours in a Discipline at the Successful Completion of the Fourth Years (Eight Semesters) of the multidisciplinary Four-year Undergraduate Programme/Five-year Integrated Master's Degree Programme	176 - 192

- 1. Discipline Knowledge:** Knowledge of basics of science and research, and ability to apply the understanding of fundamentals of specialized discipline in solving complex scientific problems.
- 2. Conduct investigations:** Conduct investigations of issues using research methods and research-based discipline knowledge including design of experiments, data collection, interpretation and analysis to arrive at valid conclusions.
- 3. Problem analysis:** Identify, formulate and analyze complex scientific problems using first principles of respective discipline.
- 4. Design and Development of solutions:** Design solutions for complex scientific problems and execute them by considering the environmental, societal and public safety aspects appropriately.
- 5. Modern tool usage:** Identify, select and use a modern scientific, engineering and IT tool or technique for modelling, prediction, data analysis and solving problems in the areas of their discipline.
- 6. Environment and Society:** Evaluate the impact of scientific solutions on society and environment and design sustainable solutions.
- 7. Ethics:** Demonstrate professional ethics, responsibilities and norms in respective profession.
- 8. Individual and teamwork:** Work effectively as an individual as a team member and as a leader in a multidisciplinary team.
- 9. Communication:** Communicate effectively with the stakeholders with emphasis on communicating with scientific community, comprehend scientific reports, write research papers and projects proposals and reports, deliver effective presentations, and give and receive clear instructions.
- 10. Project Management and Finance:** Apply the knowledge of scientific and technological principles to one's own work to manage projects in multidisciplinary settings.
- 11. Lifelong Learning:** Identify knowledge gaps and engage in lifelong learning in the context of changing trends in respective discipline.



Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R. Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka

PRINCIPAL

Vijaya Mahantesh Krupapohit  
S.R. Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkot, Karnataka)

## Program Outcomes:

1.	Disciplinary knowledge
2.	Communication Skills
3.	Critical thinking, Reflective thinking, Analytical reasoning, Scientific reasoning
4.	Problem-solving
5.	Research-related skills
6.	Cooperation/ Teamwork/ Leadership readiness/Qualities
7.	Information/ Digital literacy/Modern Tool Usage
8.	Environment and Sustainability
9.	Multicultural competence
10.	Multi-Disciplinary
11.	Moral and ethical awareness/Reasoning
12.	Lifelong learning / Self Directed Learning

## Course Content Semester – I Mechanics and Properties of Matter

Course Title: Mechanics and Properties of Matter	Course Credits:4
Total Contact Hours: 52	Duration of ESA: 3 hours
Formative Assessment Marks: 40	Summative Assessment Marks: 60
Model Syllabus Authors: Physics Expert Committee	

### Prerequisites

i.	Basic Knowledge of Classical Mechanics up to 12 <sup>th</sup> Standard
----	--

## Course Learning Outcomes

**At the end of the course students will be able to:**

i.	Estimate the possible error in measurement of a physical quantity, using its dimensional equation, the least counts of instruments used and by actual measurements in the appropriate system of units.
ii.	Apply laws of conservation of momentum and associated energy along with laws to motion to the systems of linear/rotational motion to determine different parameters associated with physically rigid bodies.
iii.	Apply the concept of the relative frame of reference with appropriate postulates of the theory of relative motion to the measurement of length, time and velocity.
iv.	Apply the laws of Gravitation and Kepler laws to describe the working of satellites and other applications.
v.	Determine theoretically and experimentally the relation between three elastic constants.
vi.	Apply the concept of surface tension and viscosity of fluids.





OE 3.1 Sociology of Youth		OE 3.2 Sociology of Tourism Management		OE 3.3 Social Welfare and Social Policy In India	
Number of Theory Credits	Number of lecture hours/semester	Number of Theory Credits	Number of lecture hours/semester	Number of Theory Credits	Number of lecture hours/semester
3	39	3	39	3	39

OE 3.1 Sociology of Youth	
Total Contact Hours: 39	Course Credits: 3
Formative Assessment Marks: 40	Summative Assessment Marks: 60
Duration of ESA/Exam: 2 hours	

**Course Outcomes:**

At the end of the course the student should be able to:

1. Recognize and explain how sociologists conceptualize and study youth and youth hood
2. Understand how youth evolve in the context of social, economic and cultural settings
3. Understand concerns and problems of youth
4. To articulate the position of youth in society and the participation of youth in Nation building.
5. Apply relevant sociological theory to critically examine young people's positions and experiences in society.
6. Articulate your own position on key debates on the position of young people in society.
7. Know the role of youth at global and Indian context and the influence of different groups on youths.

OE 3.1: Sociology of Youth		39 Hrs
Unit - 1	Age Groups and Social Structure	13
Chapter No. 1. Age Differentiation, Age Groups. Age Sets; Problem of Generations; Cultural Lag (W F Ogburn); Structural Lag (Riley)		
Chapter No.2. Youth Cultures, Subcultures, Counter Culture, Contra Culture		
Chapter No.3. Youth Vs Caste; Youth Vs Class		

*Mr. W.P. Rayappa*  
HOD Sociology  
VMSSRV College Hungund

Coordinator  
IQAC

*Principal*  
PRINCIPAL

Vijaya Mahantesh Krupapohit S.R. Vastad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka

Vijaya Mahantesh Kurpapohit

S.R. Vastad Arts, Science And Vijay

Shankarappa Bellihal Commerce College

Hungund-587118 (Dist: Bagalkote-Karnataka)

Department of English

---

**B.A./ B.Sc./B.Com. Programme Outcomes**

By the end of the programme the students will be able to:

1. Communicate effectively and appropriately.
2. Use English effectively for the purpose of study across the curriculum.
3. Develop interest in the appreciation of Literature.
4. Acquaint with communication skills.
5. Inculcate life skills and human values
6. Think creatively and critically.
7. Expand emotional intelligence

**B.A. I Sem (DSC- 1) Introduction to Literature.**

**Course Outcomes:**

At the end of the course the student should be able to-

1. Learn and understand the objectives of studying BA (Honours) in English, that is, to analyze, appreciate, understand and critically engage with literary texts written in English, approaching them from various perspectives and with a clear understanding of locations.
2. Correctly define commonly used literary terms and concepts and use those terms and concepts to discuss and analyze works of literature.
3. Identify structural elements of works of poetry, fiction, and drama, and analyze how those elements help create specific meanings and effects.
4. Compare works of literature in terms of theme, structure, and use of literary devices.
5. Gain an understanding of the concepts of literature.
6. Appreciate literary form and structure in shaping a text's meaning

**B.A. I Sem (DSC- 2) Indian Writing in English - I**

**Course outcomes:**

At the end of the course the student should be able to-

1. Learn and understand the objectives of studying BA (Honours) in English, that is, to analyze, appreciate, understand and critically engage with literary texts written in English, approaching them from various perspectives and with a clear understanding of locations.
2. Trace and understand the development of Indian English Literature.
3. Compare works of literature in terms of theme, structure, and use of literary devices.
4. Appreciate literary form and structure in shaping a text's meaning

**B.A. I Sem (AECC- 1) Generic English- I**

**Course Outcomes:**

At the end of the course the student should be able to-

1. Acquire the LSRW (Listening, Speaking, Reading, and Writing) skills.
2. Learn to appreciate literary texts.
3. Obtain the knowledge of literary devices and genres.

4. Acquire the skills of creativity to express one's experiences.
5. Know how to use digital learning tools.
6. Be aware of their social responsibilities.
7. Develop critical thinking skills.
8. Develop gender sensitivity.
9. Increase reading speed, analytical skills and develop presentation skills.
10. Become employable with requisite professional skills, ethics and values.

#### **B.A. I Sem (OEC- 1) Functional English, Grammar and Study Skills.**

##### **Course Outcomes:**

At the end of the course the student should be able to-

1. Acquire the LSRW (Listening, Speaking, Reading, and Writing) skills.
2. Acquire the skills of creativity to express one's experiences.
3. Develop the critical thinking skills.
4. Become employable with requisite professional skills and values

#### **B.Com. I Sem (AECC- 1) Generic English- I**

##### **Course Outcomes:**

At the end of the course the student should be able to-

1. Acquire the LSRW (Listening, Speaking, Reading, and Writing) skills.
2. Learn to appreciate literary texts.
3. Obtain the knowledge of literary devices and genres.
4. Acquire the skills of creativity to express one's experiences.
5. Know how to use digital learning tools.
6. Be aware of their social responsibilities.
7. Develop critical thinking skills.
8. Develop gender sensitivity.
9. Increase reading speed, analytical skills and develop presentation skills.
10. Become employable with requisite professional skills, ethics and values

#### **B.Sc. I Sem (AECC- 1) Generic English- I**

##### **Course Outcomes:**

At the end of the course the student should be able to-

1. Acquire the LSRW (Listening, Speaking, Reading, and Writing) skills.
2. Learn to appreciate literary texts.
3. Obtain the knowledge of literary devices and genres.
4. Acquire the skills of creativity to express one's experiences.
5. Know how to use digital learning tools.
6. Be aware of their social responsibilities.
7. Develop critical thinking skills.
8. Develop gender sensitivity.
9. Increase reading speed, analytical skills and develop presentation skills.
10. Become employable with requisite professional skills, ethics and values.



*[Signature]*  
Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R. Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka

*[Signature]*  
PRINCIPAL

Vijaya Mahantesh Kurpapohit  
S.R. Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkot-Karnataka)

programme enhances students overall development and also equip them with mathematical modelling ability, problem solving skills.

5. **Research related skills:** The completing this programme develop the capability of inquiring about appropriate questions relating to the Mathematical concepts in different areas of Mathematics.
6. **Information/digital Literacy:**The completion of this programme will enable the learner to use appropriate software's to solve system of algebraic equation and differential equations.
7. **Self-directed learning:** The student completing this program will develop an ability of working independently and to make an in-depth study of various notions of Mathematics.
8. **Moral and ethical awareness/reasoning:**The student completing this program will develop an ability to identify unethical behaviour such as fabrication, falsification or misinterpretation of data and adopting objectives, unbiased and truthful actions in all aspects of life in general and Mathematical studies in particular.
9. **Lifelong learning:** This programme provides self-directed learning and lifelong learning skills. This programme helps the learner to think independently and develop algorithms and computational skills for solving real word problems.
10. **Ability to peruse advanced studies and research in pure and applied Mathematical sciences.**

  
Coordinator  
IQAC

Vijaya Mahantesh Kurpeposha S.R. Vastrad  
Arts, Science & Vija Shankarappa Bellihal  
Commerce College Hingund-587118  
Dist: Bagalkote State: Karnataka



  
PRINCIPAL

Vijaya Mahantesh Kurpeposha  
S.R. Vastrad Arts, Science And Vija  
Shankarappa Bellihal Commerce College  
Hingund-587118 (Dist: Bagalkot, Karnataka)

### PROGRAM OUTCOMES:

1. **Disciplinary Knowledge:** Bachelor degree in Mathematics is the culmination of in-depth knowledge of Algebra, Calculus, Geometry, differential equations and several other branches of pure and applied mathematics. This also leads to study the related areas such as computer science and other allied subjects.
2. **Communication Skills:** Ability to communicate various mathematical concepts effectively using examples and their geometrical visualization. The skills and knowledge gained in this program will lead to the proficiency in analytical reasoning which can be used for modelling and solving of real-life problems.
3. **Critical thinking and analytical reasoning:** The students undergoing this programme acquire ability of critical thinking and logical reasoning and capability of recognizing and distinguishing the various aspects of real life problems.
4. **Problem Solving:** The Mathematical knowledge gained by the students through this programme develop an ability to analyze the problems, identify and define appropriate computing requirements for its solutions. This



Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka  
Vijaya Mahantesh Kurpaposhik  
S.R.Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkot-Karnataka)

  
PRINCIPAL

COURSE-WISE SYLLABUS

## Semester I

Year	I	Course Code: 21BSC1C1MAT1L	Credits	04
Sem.	1	Course Title: Algebra - I and Calculus – I	Hours	56
Course Pre-requisites, if any		NA		
Formative Assessment Marks: 40		Summative Assessment Marks: 60	Duration of ESA:.02 hrs. .	
Course Outcomes	<p>This course will enable the students to</p> <ul style="list-style-type: none"> <li>• Learn to solve system of linear equations.</li> <li>• Solve the system of homogeneous and non-homogeneous linear of m equations in n variables by using concept of rank of matrix, finding eigen values and eigen vectors.</li> <li>• Sketch curves in Cartesian, polar and pedal equations</li> <li>• Students will be familiar with the techniques of integration and differentiation of function with real variables.</li> <li>• Identify and apply the intermediate value theorems and L' Hospital rule.</li> </ul>			



*S.K.A.*  
PRINCIPAL

Vijaya Mahantesh Kurpapohit  
S.R.Vastrad Arts, Science And Vijay  
shankarappa Bellihal Commerce College  
Hungund-587118 (Dist:Bagalkot-Karnataka)

*S.K.A.*  
Coordinator  
IQAC

Vijaya Mahantesh Kurpapohit S.R.Vastrad  
Arts,Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist:Bagalkote State:Karnataka

Department of Chemistry

---

**Programme Outcome from B.Sc (Hons.) Chemistry**

The B.Sc (Hons) programme in Chemistry is designed to develop in depth knowledge in students of the core concepts and principles that are central to the understanding of this core science discipline. Undergraduates pursuing this programme of study go through laboratory work that specifically develop their quantitative and qualitative skills, it provides opportunities for critical thinking and team work and exposes them to techniques useful for applied areas of scientific study.

➤ **Knowledge: Width and depth:**

Students acquire theoretical knowledge and understand the fundamental concepts, principles and processes in main branches of chemistry viz. organic, inorganic, physical, spectroscopy, analytical and biochemistry. In depth understanding is the outcome of transactional effectiveness and treatment of specialized course contents. Width results from the choice of electives that students are offered.

➤ **Laboratory Skills: Quantitative, analytical and instrument based:**

A much valued learning outcome of this programme is the laboratory skills that students develop during the course. Quantitative techniques gained through hands on methods opens choice of joining the industrial laboratory work force early on. The programme also provides ample training in handling basic chemical laboratory instruments and their uses in analytical and biochemical determinations. Undergraduates on completion of this programme can cross branches to join analytical, pharmaceutical, material testing and biochemical labs besides standard chemical laboratories.

➤ **Communication:**

Communication is a highly desirable attribute to possess. Opportunities to enhance students' ability to write methodical, logical and precise reports are inherent in the structure of the programme. Techniques for effective communication of scientific chemical content to large audiences are acquired through oral and poster presentations and regular laboratory report writing.

➤ **Capacity Enhancement:**

Modern day scientific environment requires students to possess ability to think independently as well as be able to work productively in groups. This requires some degree of balancing. The chemistry honours programme course is designed to take care of this important aspect of student development through effective teaching learning process.

➤ **Portable Skills:**

Besides communication skills, the programme develops a range of portable or transferable skills in students that they can carry with them to their new work environment after completion of chemistry honours programme. These are problem solving, numeracy and mathematical skills- error analysis, units and conversions, information retrieval skills, IT skills and organizational skills. These are valued across work environments.

## B.Sc. Semester –I

### Chemistry as Discipline Specific Course (DSC) Chemistry-1

#### Course Outcomes:

After studying this course and performing the experiments set in it student will be able to:

1. Describe the dual nature of radiation and matter; dual behaviour of matter and radiation, de Broglie's equations, Heisenberg Uncertainty principle and their related problems.
2. Electronic configurations of the atoms.
3. Define periodicity, explain the cause of periodicity in properties, and classify the elements into four categories according to their electronic configuration.
4. Define atomic radii, ionisation energy, electron affinity and electronegativity, discuss the factors affecting atomic radii, describe the relationship of atomic radii with ionisation energy and electron affinity, describe the periodicity in atomic radii, ionization energy, electron affinity and electronegativity.
5. Explain bond properties, electron displacement effects (inductive effect, electrometric effect, resonance effect and Hyper conjugation effect). Steric effect and their applications in explaining acidic strength of carboxylic acids, basicity of amines.
6. Understand basic concept of organic reaction mechanism, types of organic reactions, structure, stability and reactivity of reactive intermediates.
7. Describe important characteristics of configurationally and conformational isomers. Practice and write conformational isomers of ethane, butane and cyclohexane.
8. Understand the various concepts of geometrical isomerism and optical isomerism. Describe CIP rules to assign E,Z notations and R& S notations. Explain D and L configuration and *threo* and *erythro* nomenclature.
9. Explain racemic mixture and racemisation, resolution of racemic mixture through mechanical separation, formation of diastereomers, and biochemical methods, biological significance of chirality.
10. Explain the existence of different states of matter in terms of balance between intermolecular forces and thermal energy of the particles. Explain the laws governing behavior of ideal gases and real gases. Understand cooling effect of gas on adiabatic expansion.
11. Describe the conditions required for liquefaction of gases. Realise that there is continuity in gaseous and liquid state.
12. Explain properties of liquids in terms of intermolecular attractions.
13. Understand principles of titrimetric analysis.
14. Understand principles of different type's titrations. Titration curves for all types of acids–base titrations.
15. Gain knowledge about balancing redox equations, titration curves, theory of redox indicators and applications.
16. Understand titration curves, indicators for precipitation titrations involving silver nitrate Volhard's and Mohr's methods and their differences.
17. Indicators for EDTA titrations - theory of metal ion indicators. Determination of hardness of water.





**B.Sc. Semester –I**  
**Chemistry Lab-1**

**Course Outcomes:**

After studying this course and performing the experiments set in it student will be able to:

1. Understand and practice the calibration of glasswares (burette, pipette, volumetric flask).
2. Basic concepts involved in titrimetric analysis, primary standard substances, preparation of standard solutions.
3. Explain the principles of acid-base, redox and iodometric titrations.
4. Work out the stoichiometric relations based on the reactions involved in the titrimetric analysis.
5. Based on principles of titrimetric analysis student can perform
6. Describe the significance of organic quantitative analysis.
7. Determine the amount of phenol, aniline, amide, ester and formaldehyde in a given solution by performing blank titration and main titrations.
8. Determine aspirin in the tablet by hydrolysis method.

**B.Sc. Semester –I**

**Open Elective Course (OEC)-1**

**Course Outcomes:**

On completion of the course students will be able to:

1. Understand the chemical constituents in various day today materials using by a common man.
2. Understand the chemical constituents in fertilizers, insecticides and pesticides, chemical explosives etc.
3. Understand the chemical constituents in polymers, surface coatings etc.

  
Coordinator  
I Q A C

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka

  
PRINCIPAL

Vijaya Mahantesh Krupapohit  
S.R.Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkot-Karnataka)

**B.Sc. Semester -III**

**Chemistry as Discipline Specific Course (DSC) Chemistry-I**

**Course Outcomes:**

After completion of this course, student will be able to:

1. Understand the importance of fundamental law and validation parameters in chemical analysis.
2. Know how different analytes in different matrices (water and real samples) can be determined by spectrophotometric nephelometric and turbidimetric methods.
3. Understand the requirement for chemical analysis by paper, thin layer and column chromatography.
4. Apply solvent extraction method for quantitative determination of metal ions in different samples.
5. Utilize the ion-exchange chromatography for domestic and industrial applications.
6. Explain mechanism for a given reaction.
7. Predict the probable mechanism for a reaction. Explain the importance of reaction intermediates, its role and techniques of generating such intermediates.
8. Explain the importance of Stereochemistry in predicting the structure and property of organic molecules.
9. Predict the configuration of an organic molecule and able to designate it.
10. Identify the chiral molecules and predict its actual configuration.

**B.Sc. Semester -III**

**Chemistry Lab-3**

**Course Outcomes:**

After the completion of this course, the student would be able to

1. Understand the importance of instrumental methods for quantitative applications. Apply colorimetric methods for accurate determination of metal ions and anions in water or real samples.
2. Understand how functional groups in a compound is responsible for its characteristic property.
3. Learn the importance of qualitative tests in identifying functional groups.
4. Learn how to prepare a derivative for particular functional groups and how to purify it.

**B.Sc. Semester -III**

**Open Elective Course (OEC)- 3**

**Course Outcomes:**

Upon completion of the course students will be able to

1. Understand the concept of fuels, and their classifications.
2. Learn the different types of fuels and their applications.
3. Know the different types of pollution and their prevention.



PRINCIPAL  
Vijaya Mahantesh Kurpogoshi  
Vastred Arts, Science And Vijaya  
Bappa Bellihal Commerce College  
6-587118 (Dist: Bargaon-Karnataka)

  
Coordinator

Vijaya  
Arts, S  
Col  
L

Vastred S.R. Vastred  
Bappa Bellihal  
Bund-587118  
Karnataka

**B.Sc. Semester –I  
Chemistry Lab-1**

**Course Outcomes:**

After studying this course and performing the experiments set in it student will be able to:

1. Understand and practice the calibration of glasswares (burette, pipette, volumetric flask).
2. Basic concepts involved in titrimetric analysis, primary standard substances, preparation of standard solutions.
3. Explain the principles of acid-base, redox and iodometric titrations.
4. Work out the stoichiometric relations based on the reactions involved in the titrimetric analysis.
5. Based on principles of titrimetric analysis student can perform
6. Describe the significance of organic quantitative analysis.
7. Determine the amount of phenol, aniline, amide, ester and formaldehyde in a given solution by performing blank titration and main titrations.
8. Determine aspirin in the tablet by hydrolysis method.



**B.Sc. Semester –I**

**Open Elective Course (OEC)-1**

**Course Outcomes:**

On completion of the course students will be able to:

1. Understand the chemical constituents in various day today materials using by a common man.
2. Understand the chemical constituents in fertilizers, insecticides and pesticides, chemical explosives etc.
3. Understand the chemical constituents in polymers, surface coatings etc.

  
Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka

  
PRINCIPAL

Vijaya Mahantesh Krupapohit  
S.R.Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkote-Karnataka)

programme enhances students overall development and also equip them with mathematical modelling ability, problem solving skills.

5. **Research related skills:** The completing this programme develop the capability of inquiring about appropriate questions relating to the Mathematical concepts in different areas of Mathematics.
6. **Information/digital Literacy:** The completion of this programme will enable the learner to use appropriate software's to solve system of algebraic equation and differential equations.
7. **Self-directed learning:** The student completing this program will develop an ability of working independently and to make an in-depth study of various notions of Mathematics.
8. **Moral and ethical awareness/reasoning:** The student completing this program will develop an ability to identify unethical behaviour such as fabrication, falsification or misinterpretation of data and adopting objectives, unbiased and truthful actions in all aspects of life in general and Mathematical studies in particular.
9. **Lifelong learning:** This programme provides self-directed learning and lifelong learning skills. This programme helps the learner to think independently and develop algorithms and computational skills for solving real word problems.
10. **Ability to peruse advanced studies and research in pure and applied Mathematical sciences.**

  
Coordinator  
IQAC

Vijaya Mahantesh Kurpaposhha S.R. Vastrad  
Arts, Science & Vijaya Shankarappa Bellihal  
Commerce College Hingund-587118  
Dist: Bagalkote State: Karnataka



  
PRINCIPAL

Vijaya Mahantesh Kurpaposhha  
S.R. Vastrad Arts, Science And Vijaya  
Shankarappa Bellihal Commerce College  
Hingund-587118 (Dist: Bagalkot, Karnataka)

## PROGRAM OUTCOMES:

- 1. Disciplinary Knowledge:** Bachelor degree in Mathematics is the culmination of in-depth knowledge of Algebra, Calculus, Geometry, differential equations and several other branches of pure and applied mathematics. This also leads to study the related areas such as computer science and other allied subjects.
- 2. Communication Skills:** Ability to communicate various mathematical concepts effectively using examples and their geometrical visualization. The skills and knowledge gained in this program will lead to the proficiency in analytical reasoning which can be used for modelling and solving of real-life problems.
- 3. Critical thinking and analytical reasoning:** The students undergoing this programme acquire ability of critical thinking and logical reasoning and capability of recognizing and distinguishing the various aspects of real life problems.
- 4. Problem Solving:** The Mathematical knowledge gained by the students through this programme develop an ability to analyze the problems, identify and define appropriate computing requirements for its solutions. This



Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagalkote State: Karnataka  
Vijaya Mahantesh Kurpaposh  
S.R.Vastrad Arts, Science And Vijay  
Shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagalkot-Karnataka)

## COURSE-WISE SYLLABUS

### Semester I

Year	I	Course Code: 21BSC1C1MAT1L	Credits	04
Sem.	1		Course Title: Algebra - I and Calculus – I	Hours
Course Pre-requisites, if any		NA		
Formative Assessment Marks: 40		Summative Assessment Marks: 60	Duration of ESA: 02 hrs. .	
Course Outcomes	This course will enable the students to <ul style="list-style-type: none"><li>• Learn to solve system of linear equations.</li><li>• Solve the system of homogeneous and non-homogeneous linear of m equations in n variables by using concept of rank of matrix, finding eigen values and eigen vectors.</li><li>• Sketch curves in Cartesian, polar and pedal equations</li><li>• Students will be familiar with the techniques of integration and differentiation of function with real variables.</li><li>• Identify and apply the intermediate value theorems and L' Hospital rule.</li></ul>			



*[Signature]*  
PRINCIPAL

Vijaya Mahantesh Krupapohit  
S.R.Vastrad Arts, Science And Vijay  
shankarappa Bellihal Commerce College  
Hungund-587118 (Dist: Bagealkot-Karnataka)

*[Signature]*  
Coordinator  
IQAC

Vijaya Mahantesh Krupapohit S.R.Vastrad  
Arts, Science & Vijay Shankarappa Bellihal  
Commerce College, Hungund-587118  
Dist: Bagealkot State: Karnataka