

2.6.1 POs & COs



S.P.V.V.S'S
**G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE
COLLEGE, SINDGI – 586 128** (Dist : Vijayapur, Karnataka State)

Affiliated to Rani Channamma University, Belagavi

Accredited at 'B' Grade (2.42 CGPA) by NAAC

E-mail: gppprincipal@gmail.com Web: www.gppvvs.ac.in Ph: 08488-221244 Mobile : 9611032604

DEPARTMENT OF ECONOMICS

2022-23

PROGRAM OUTCOMES

The Programme outcomes (POs) are expected to be as under:

- Students will be able to understand economic vocabulary, methodologies, tools and analysis procedures.
- Students will be familiar with the knowledge and application of micro economics for the formulation of policies and planning.
- Students will learn to apply economic theories and concepts to contemporary social issues, as well as analysis of policies.
- Students will be able to understand the impact of government policies and will be able to assess the consequences of the policies on the parties involved.
- As the programme along with economics contains like statistics, mathematics, it enhances them to compute and assess the real situation of the economy including the size and changes of population, income pattern, and rate of development with pattern of savings and investments and social security measures adopted in the country.
- Understand the basics of quantitative techniques their applications
- Critically evaluate the ongoing economic developments in India and abroad
- Understand research methods in economics
- Student develops an awareness of career choices and the option for higher studies.


Head
Dept. of Economics
G.P.P. Arts, Commerce & V.V.S. Science
College, SINDGI-586128,


Coordinator IQAC
PORWAL ARTS, COM &
SALIMATH Sc. College,
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Department of Economics

Course Outcomes

DSC-9: Public Economics (5th Sem)

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand introductory Public Finance concepts.
- CO2. Study the causes of market failure and corrective actions
- CO3. Understand the impact, incidence and shifting of tax
- CO4. Study the Economic Effects of tax on production, distribution and other effects
- CO5. Enable the students to know the Principles and Effects of Public Expenditure
- CO6. Understand the Economic and functional classification of the budget; Balanced and Unbalanced budget
- CO7. Understand the Burden of Public debt and know the Classical/ Ricardian views, Keynesian and post-Keynesian views
- CO8. To acquaint with the advantages and disadvantages of Deficit Financing.

DSC-10: Development Economics (5th Sem)

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the basic concepts and measurements of Development.
- CO2. Learn some classical and partial theories of Development economics and identify the difference.
- CO3. Identify the difference between Developed and Developing Countries.
- CO4. Analyse and tackle the Development issues effectively.


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DSC-11: Indian Banking and Finance (5th Sem)

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the structure of Indian banking and the role of banks in monetary policy.
- CO2. Analyze the functioning of banks and different types of accounts and other services offered by banks.
- CO3. Evaluate recent developments in the Indian banking sector, including digital banking, payment banks, and non-performing assets.
- CO4. Describe the overview of the Indian financial system, including financial markets, financial instruments, and financial regulation.
- CO5. Analyze the challenges faced by Indian banks and the implications of banking reforms for the Indian economy.
- CO6. Develop critical thinking and analytical skills in evaluating various financial products and services banks and capital markets offer.

DSC-12: International Economics (6th Sem)

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the international trade theories and their application in international trade
- CO2. Explain the concept of terms of trade and demonstrate the effect of trade barriers; and display the ability to analyse the stages of economic integration
- CO3. Understand the concept of BoP and assess the BoP position and examine the changes in forex rate
- CO4. Analyse the role of International trade and financial institutions
- CO5. Demonstrate good inter-personal and communication skills through class participation and contributing to critical discussion on trade issues


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DSC-13: Indian Public Finance (6th Sem)

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the structure of Indian Public Finance
- CO2. Enable the students to know the Source and nature of public revenue and expenditure
- CO3. Understand the Budget and different concept of deficits
- CO4. Know the Public debt and its management.
- CO5. Understand the fiscal and monetary policy and their tools and importance
- CO7. To enable the students to know the Indian federal financing system and Financial Commissions.

DSC-14: Environmental Economics (6th Sem)

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand how economic methods can be applied to environmental issues facing society
- CO2. Examine the linkages between Environmental Degradation and Economic Development
- CO3. Develop an informed view regarding the potential of economics to help societies achieve their environmental goals
- CO4. Demonstrate good inter-personal and communication skills through writing an essay and contributing to critical discussion
- CO5. Analyze environmental problems and to assess environmental policies.


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DEPARTMENT OF ECONOMICS

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DSC-1: Basic Economics – I (Course Outcomes):

1. Identify the facets of an economic problem.
2. Learn basic economic concepts and terms.
3. Explain the operation of a market system;
4. Analyses the production and cost relationships of a business firm;
5. Evaluate the pricing decisions under different market structures; and
6. Use basic cost-benefit calculations as a means of decision making (i.e., thinking like an economist)

DSC-2: Contemporary Indian Economy (Course Outcomes):

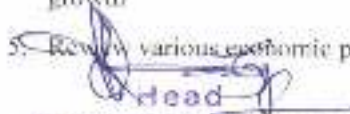
1. Understand the current problems of Indian Economy
2. Identify the factors contributing to the recent growth of the Indian economy
3. Evaluate impact of LPG policies on economic growth in India
4. Analyze the sector specific policies adopted for achieving the inspirational goals
5. Review various economic policies adopted

OE-1.1: Kautilya's Arthashastra (OEC)

1. This course will enlighten the students about the ancient fundamentals about political and economic constituents, which will frame out a basic land of understanding the modern trends. This will help them to understand the upcoming needs in the area of policy making for states at national and international level.
2. This treatise deals with the science of Governance, so it projects out all the dimensions needed to be understood by students about the present socio-economic and political rules and regulations of the state.

OE-1.2: Pre-Reforms Indian Economy (Course Outcomes):

1. Trace the evolution of Indian Economy
2. Identify the structural features and constraints of the Indian economy
3. Evaluate planning models and strategy adopted in India
4. Analyze the sector specific problems and contributions towards overall economic growth
5. Review various economic policies adopted


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OE-1, 3: Development Studies (OEC)

1. Graduates will be able to excel in higher studies and/or to succeed in profession.
2. Graduates will get a solid foundation of fundamentals required to solve socioeconomic problems and also to pursue higher studies.
3. Graduates will demonstrate knowledge to appreciate of the dimensions of contemporary development issues, to generate sensitivity to problems concerning ethics and human values to develop orientation towards effective communication and critical analysis, and to appreciate the interrelationships among disciplines as they relate to everyday realities.
4. Graduates will cultivate professional and ethical attitude, effective Communication skills, teamwork skills, multidisciplinary approach, and to facilitate an advanced understanding and appreciation of the principles, methodologies, value systems, and thought processes employed in human inquiries.

DSC-3: Basic Economics II (Course Outcomes): (2nd Sem)

1. Understand the operation of the overall economic system;
2. Calculate national income and related aggregates
3. Explain the relationship between macroeconomic aggregates;
4. Analyses the nature of business cycles and policies towards controlling them;
5. Evaluate the macroeconomic policies for solving major problems like poverty and unemployment

DSC-4: Karnataka Economy B.A II Sem

1. Understand the nature of economic growth and problems of Karnataka state.
2. Explain the process of structural growth in Karnataka economy;
3. Evaluate the policies and programmes undertaken by the Govt. of Karnataka for bringing about socio-economic development

OE-2.2 Sustainable Development B.A II Sem

1. Understand the basic concept of Sustainable Development (SD), the environmental, social and economic dimensions.
2. Know the history of the SD idea.
3. Be able to discuss the conflicts which are involved in the SD concept on the national as well as on the global scale.
4. Be able to discuss the disadvantages of instruments for SD.
5. Evaluate the sustainable development goals and their attainments



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OE-2.3 Economics of Business Environment B.A II Sem

1. Explain the elements of Business environment.
2. Identify the environmental constraints in the growth of a business firm.
3. Analyze the ways to utilize the current environmental conditions to achieve higher business growth.

DSC-5: Micro Economics B. A. III Sem (NEP)

1. Understand introductory economic concepts.
2. Recognize basic supply and demand analysis.
3. Recognize the structure and the role of costs in the economy.
4. Describe, using graphs, the various market models: perfect competition, monopoly, monopolistic competition, and oligopoly.
5. Explain how equilibrium is achieved in the various market models.
6. Identify problem areas in the economy, and possible solutions, using the analytical tools developed in the course.

DSC-6: Mathematics for Economics B. A. III Sem (NEP)

1. Perform basic operations in Sets and functions and Matrix algebra.
2. Calculate limits, derivatives of Economic functions and identify the nature of relationship.
3. Calculate maxima and minima of function.

OE-3.1 Rural Economics B. A. III Sem (NEP)

1. To understand the basics of rural development.
2. To study the characteristics, problems, and programmes of rural redevelopment
3. To study the trends and patterns of economic activities in rural areas
4. To study the role of infrastructural facilities and governance in rural development.
5. To enable the students to know about significance of rural enterprises and agricultural allied activities.

OE-3.2 Economics of Insurance B. A. III Sem (NEP)

1. Gain knowledge relating to the importance of the insurance in the life of human


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OE-3.3 Economics of Human Development B. A. III Sem (NEP)

1. Differentiate between Human Resource Development (HRD), Human Development (HD) and HRM
2. Understand the concepts of Human security, describe dimensions of human development, and appreciate various practices and policies of human development, HDI and India.

DSC-7: Macroeconomics B. A. IV Sem (NEP)

1. Understand the Theories of National Income Accounting
2. Explain the process of Consumption and Investment Functions
3. Evaluate the Concept of Multiplier and Inflation

DSC-8: Statistics for Economics B. A. IV Sem (NEP)

1. Understand the nature of Data and their presentation
2. Calculate Descriptive statistics like measures of central tendency and dispersion
3. Apply statistical techniques like correlation and regression in Economic analysis


CBES Syllabus for Economics 2020-21

B.A.I Sem Micro Economics:

1. To familiarize the students with economic behavior of consumers and producers and production.
2. To understand cost, revenue functions and the determination of price and output in different markets.

B.A.II Sem Macro Economics:

1. Students should be able to understand the behavior of Macro Economics variables.
2. To provide knowledge of national income accounts.
3. To understand classical economics and the Keynesian economics.
4. To understand the business cycles and inflation.


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B.A.III Sem Public Economics:

1. Students should be able to understand the concepts of public economics.
2. To understand the basis for public expenditure, revenue and debt.
3. To familiarize the students with different concept of budgetary deficits, budget and fiscal policy.

B.A IV Sem: International Economics:

1. To clarify the concepts of internal and international trade.
2. To understand foreign exchange and exchange control.
3. To know the working of international economic organizations.

B.A V Sem: Indian Economy

1. To provide the knowledge of Indian Economy.
2. To study the applied aspects of economics.

B.A V Sem: Monetary Economics

1. To provide knowledge of money, value of money and supply of money.
2. To provide tools for construction of index.
3. To clarify the concepts of inflation, deflation and stagflation.

B.A VI Sem: Development Economics

1. To provide the students with the essential tools and concepts of development economics.
2. Able to understand General theories of economic growth and development, problems of economic development.
3. To prepare them to understand what helps development to succeed.

B.A VI Sem: Industrial Economics

1. Able to understand the various problems confronting the entrepreneurs in the process of industrialization
2. Can be study the significance of industrialization in the dynamic competitive economic system.

3. To examine the development and expansion of larger and small-scale industries.


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Class: - B.Sc. I-Sem

HINDI BASIC

On completion of the course, students are able to

1. To able to understand the concept of information technology,
2. To able to use study material from websites of Hindi literature
3. To able to understand the importance and problems of information technology.

Class: - B.Sc. II-Sem

HINDI BASIC

On completion of the course, students are able to

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

Class: - B.Sc. III-Sem

HINDI BASIC

On completion of the course, students are able to

1. To able to understand the concepts of linguistic.
2. To able to understand the different flows of Hindi language (Rajbhasha)
3. To able to understand the introductory concepts of Hindi grammar..
4. To able to understand the characters in Chitralkha Novel

Class: - B.A. Sem-II

HINDI BASIC

On completion of the course, students are able to

1. To able to understand the essay by Addhyapak Purnasingh.
2. To able to understand the one act play by Jagadishchandra Mathur
3. To able to understand novel by Bhagwaticharan Varma.
4. To able to understand the characters in Chitralkha Novel

Class: - B.A. Sem-III

HINDI BASIC

On completion of the course, students are able to

1. To able to understand the meaning, concept and importance of Functional Hindi.
2. To able to understand various forms of Functional Hindi according to its area of application
3. To able to understand the importance of translation
4. To able to understand various forms of writing in media

Class: - B.A. Sem-IV

HINDI BASIC

On completion of the course, students are able to

1. To able to understand various forms of Functional Hindi language relating to internet.
2. To able to understand use of Functional Hindi language for newspaper, cinema and radio.
3. To able to understand the concept of Right to information.
4. To able to understand the concept of fundamental rights of Indian Constitution.

Class: - B.Sc. IV-Sem

HINDI BASIC

On completion of the course, students are able to

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

Class: - B.A. Sem-I

HINDI BASIC

On completion of the course, students are able to

1. To able to understand 'Mahabharata Ki Ek Saanj' by Bharatbhushan Agrawal
2. To able to understand the eassy by Kubernath Roy.
3. To able to understand the stories by Kamaleshwar and Udayprakash.

Class: - B.A. Sem-II

HINDI BASIC

On completion of the course, students are able to

1. To able to understand the eassy by Addhyapak Purnasingh.
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Class: - B.A. Sem-III

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Class: - B.A. Sem-IV

HINDI BASIC

On completion of the course, students are able to

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Department Of Hindi 2020-21

Programme Outcomes

Student seeking admission for B.A. programme is expected to imbue with following quality which helps them in their future life to achieve the expected Goals.

- Realization of human values.
- Sense of social service.
- Responsible and dutiful citizen.
- Critical temper
- Creative ability.

Programme Specific Outcomes B.A. (Hindi)

On completion of B.A (Hindi), Students are able to:

- To understand the basic concept and subject of Hindi & its origin
- To make or not the importance of subject Hindi & its Branches.
- To understand various aspect of Hindi literature with a process to reach method and giving new mode and direction.
- To make a attempt in different area and theory such as vocabulary and vice versa
- To understand in the Literature more in a border areas then Mary confined to subject.
- To know about Hindi literature its roots cause perspectives and methods.
- Elaborating and understanding its philosophical methods of Hindi Literature.


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Course Outcomes

Class: - B.A. Sem-I

Optional Hindi (DSC- I & II)

On completion of the course, students are able to

1. To able to understand 'Mahabharata Ki Ek Suanj' by Bharatbhushan Agrawal
2. To able to understand the essay by Kubernath Roy.
3. To able to understand the stories by Kamaleshwar and Udayprakash.
4. To able to understand the stories by Sudha Arora and Yashpal

Class: - B.A. Sem-II

Optional Hindi (DSC-III & IV)

On completion of the course, students are able to

1. To able to understand the essay by Adhyapak Purnasingh.
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3. To able to understand novel by Bhagwaticharan Varma.
4. To able to understand the characters in Chitralkha Novel

Class: - B.A. Sem-III

Optional Hindi (DSC-V & VI)

On completion of the course, students are able to

1. To able to understand the meaning, concept and importance of Functional Hindi.
2. To able to understand various forms of Functional Hindi according to its area of application
3. To able to understand the importance of translation
4. To able to understand various forms of writing in media

Class: - B.A. SEM-IV

Optional Hindi (DSC-VII & VIII)

On completion of the course, students are able to

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3. To able to understand the concept of Right to information.
4. To able to understand the concept of fundamental rights of Indian Constitution.

Class: -B.A. SEM-V

Optional Hindi (Paper-I)

On completion of the course, students are able to

1. To able to understand the origin of Hindi language and its literature.
2. To able to understand identifying the dialects of Hindi language family.
3. To able to Analyses the development of Khariboli Hindi.
4. To able to understand the concept of history of literature.

Class: -B.A. SEM-V

Optional Hindi (Paper-II)

On completion of the course, students are able to

3. To able to understand the origin of Hindi language and its literature.
6. To able to understand identifying the dialects of Hindi language family.
7. To able to Analyses the development of Khariboli Hindi.
8. To able to understand the concept of history of literature.

Class: -B.A. SEM-VI

Optional Hindi (Paper-I)

On completion of the course, students are able to

1. To able to understand the basis of the classification of Hindi literature.
2. To able to understand the importance and basis of the names given to each period of Hindiliterature.
3. To able to understand the features of Adikal, Bhakti kal, Ritikal and Adhunikkal, in context of socio - cultural and political condition of that period.
4. To able to understand the reason of emergence of Adhunikkal in Hindi literature.

Class: -B.A. SEM-VI

Optional Hindi (Paper-II)

On completion of the course, students are able to

1. To able to understand the features of Adikal, Bhakti kal, Ritikal and Adhunikkal, in context of socio - cultural and political condition of that period.
2. To able to understand the reason of emergence of Adhunikkal in Hindi literature.
3. To able to understand the basis of the classification of Hindi literature.
4. To able to understand the importance and basis of the names given to each period of Hindiliterature.

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On completion of the course, students are able to

1. To able to understand the concepts of linguistic.
2. To able to understand the different flows of Hindi language (Rajbhasha)
3. To able to understand the introductory concepts of Hindi grammar..

Class: - B.Sc. IV-Sem

HINDI BASIC

On completion of the course, students are able to

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

Class: - B.A. Sem-I

HINDI BASIC

On completion of the course, students are able to

1. To able to understand 'Mahabharata Ki Ek Saanj' by Bharatbhushan Agrawal
2. To able to understand the essay by Kubermath Roy.
3. To able to understand the stories by Kamaleshwar and Udayprakash.

Class: - B.A. Sem-II

HINDI BASIC

On completion of the course, students are able to

1. To able to understand the essay by Adhyapak Purnasingh.
2. To able to understand the one act play by Jagadishchandra Mathur
3. To able to understand novel by Bhagwaticharan Varma.
4. To able to understand the characters in Chitralekha Novel

Class: - B.A. Sem-III

HINDI BASIC

On completion of the course, students are able to

1. To able to understand the meaning, concept and importance of Functional Hindi.
2. To able to understand various forms of Functional Hindi according to its area of application
3. To able to understand the importance of translation
4. To able to understand various forms of writing in media

Class: - B.A. Sem-IV

HINDI BASIC

On completion of the course, students are able to

1. To able to understand various forms of Functional Hindi language relating to internet.
2. To able to understand use of Functional Hindi language for newspaper, cinema and radio.
3. To able to understand the concept of Right to information.
4. To able to understand the concept of fundamental rights of Indian Constitution.

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e-mail:gppprincipal@gmail.com Ph: 08488-221244

Department Of Hindi 2021-22



Programme Outcomes

Student seeking admission for B.A. programme is expected to imbue with following quality which helps them in their future life to achieve the expected Goals.

- Realization of human values.
- Sense of social service.
- Responsible and dutiful citizen.
- Critical temper
- Creative ability.

Programme Specific Outcomes B.A. (Hindi)

On completion of B.A (Hindi), Students are able to:

- To understand the basic concept and subject of Hindi & its origin
- To make or not the importance of subject Hindi & its Branches.
- To understand various aspect of Hindi literature with a process to reach method and giving new mode and direction.
- To make a attempt in different area and theory such as vocabulary and vice versa
- To understand in the Literature more in a border areas then Mary confined to subject.
- To know about Hindi literature its roots cause perspectives and methods.
- Elaborating and understanding its philosophical methods of Hindi Literature.
- Evaluating the concept of Hindi from past to present and making the society more


Coordinator IQAC


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Principal,
G.P.Porwal Arts, Comm. &
V.V.Salimath Sc. College
& P. G Centre, SINDGI.

Course Outcomes

Class: - B.A. Sem-I

Optional Hindi (DSC- I & II)

On completion of the course, students are able to

1. To able to understand 'Mahabharata Ki Ek Saanj' by Bharatbhushan Agrawal
2. To able to understand the eassy by Kubernath Roy.
3. To able to understand the stories by Kamaleshwar and Udayprakash.
4. To able to understand the stories by Sudha Arora and Yashpal

Class: - B.A. Sem-II

Optional Hindi (DSC-III & IV)

On completion of the course, students are able to

1. To able to understand the eassy by Addhyapak Purnasingh.
2. To able to understand the one act play by Jagadishchandra Mathur
3. To able to understand novel by Bhagwati Charan Varma.
4. To able to understand the characters in Chitralekha Novel

Class: - B.A. Sem-III

Optional Hindi (DSC-V & VI)

On completion of the course, students are able to

1. To able to understand the meaning, concept and importance of Functional Hindi.
 2. To able to understand various forms of Functional Hindi according to its area of application
 3. To able to understand the importance of translation
 4. To able to understand various forms of writing in media
-

Class: - B.A. SEM-IV

Optional Hindi (DSC-VII & VIII)

On completion of the course, students are able to

1. To able to understand various forms of Functional Hindi language relating to internet.
2. To able to understand use of Functional Hindi language for newspaper, cinema and radio.
3. To able to understand the concept of Right to information.
4. To able to understand the concept of fundamental rights of Indian Constitution.

Class: -B.A. SEM-V

Optional Hindi (Paper-I)

On completion of the course, students are able to

1. To able to understand the origin of Hindi language and its literature.
2. To able to understand identifying the dialects of Hindi language family.
3. To able to Analyses the development of Khariboli Hindi.
4. To able to understand the concept of history of literature.

Class: -B.A. SEM-V

Optional Hindi (Paper-II)

On completion of the course, students are able to

5. To able to understand the origin of Hindi language and its literature.
6. To able to understand identifying the dialects of Hindi language family.
7. To able to Analyses the development of Khariboli Hindi.
8. To able to understand the concept of history of literature.

Class: -B.A. SEM-VI

Optional Hindi (Paper-I)

On completion of the course, students are able to

1. To able to understand the basis of the classification of Hindi literature.
2. To able to understand the importance and basis of the names given to each period of Hindiliterature.
3. To able to understand the features of Adikal, Bhakti kal, Ritikal and Adhunikkal, in context of socio - cultural and political condition of that period.
4. To able to understand the reason of emergence of Adhunikkal in Hindi literature.

Class: -B.A. SEM-VI

Optional Hindi (Paper-II)

On completion of the course, students are able to

1. To able to understand the features of Adikal, Bhakti kal, Ritikal and Adhunikkal, in context of socio - cultural and political condition of that period.
2. To able to understand the reason of emergence of Adhunikkal in Hindi literature.
3. To able to understand the basis of the classification of Hindi literature;
4. To able to understand the importance and basis of the names given to each period of Hindiliterature.

Class: - B.Sc. I-Sem

HINDI BASIC

On completion of the course, students are able to

1. To able to understand the concept of information technology.
2. To able to use study material from websites of Hindi literature
3. To able to understand the importance and problems of information technology.

Class: - B.Sc. II-Sem

HINDI BASIC

On completion of the course, students are able to

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

Class: - B.Sc. III-Sem

HINDI BASIC

On completion of the course, students are able to

1. To able to understand the concepts of linguistic.
2. To able to understand the different flows of Hindi language (Rajbhasha)
3. To able to understand the introductory concepts of Hindi grammar..

Class: - B.Sc. IV-Sem

HINDI BASIC

On completion of the course, students are able to

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

Class: - B.A. Sem-I

HINDI BASIC

On completion of the course, students are able to

1. To able to understand 'Mahabharata Ki Ek Saanj' by Bharatbhushan Agrawal
2. To able to understand the eassy by Kubernath Roy-
3. To able to understand the stories by Kamaleshwar and Udayprakash.

Class: - B.A. Sem-II

HINDI BASIC

On completion of the course, students are able to

1. To able to understand the eassy by Addhyapak Purnasingh.
2. To able to understand the one act play by Jagadishchandra Mathur
3. To able to understand novel by Bhagwaticharan Varma.
4. To able to understand the characters in Chitralkha Novel

Class: - B.A. Sem-III

HINDI BASIC

On completion of the course, students are able to

1. To able to understand the meaning, concept and importance of Functional Hindi.
2. To able to understand various forms of Functional Hindi according to its area of application
3. To able to understand the importance of translation
4. To able to understand various forms of writing in media

Class: - B.A. Sem-IV

HINDI BASIC

On completion of the course, students are able to

1. To able to understand various forms of Functional Hindi language relating to internet.
2. To able to understand use of Functional Hindi language for newspaper, cinema and radio.
3. To able to understand the concept of Right to information.
4. To able to understand the concept of fundamental rights of Indian Constitution.

Department Of Hindi 2022-23

Programme Outcomes

Student seeking admission for B.A. programme is expected to improve with following quality which helps them in their future life to achieve the expected Goals.

- Realization of human values.
- Sense of social service.
- Responsible and dutiful citizen.
- Critical temper
- Creative ability.

Programme Specific Outcomes B.A. (Hindi)

On completion of B.A (Hindi), Students are able to:

- To understand the basic concept and subject of Hindi & its origin
- To make or not the importance of subject Hindi & its Branches.
- To understand various aspect of Hindi literature with a process to reach method and giving new mode and direction.
- To make a attempt in different area and theory such as vocabulary and vice versa
- To understand in the Literature more in a border areas then Mary confined to subject.
- To know about Hindi literature its roots cause perspectives and methods.
- Elaborating and understanding its philosophical methods of Hindi Literature.
- Evaluating the concept of Hindi from past to present and making the society more closely through literature.


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& P. G. Centre, SINDAGI.



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Department Of Hindi 2019-20

Programme Outcomes

Student seeking admission for B.A. programme is expected to imbue with following quality which helps them in their future life to achieve the expected Goals.


- Realization of human values.
- Sense of social service.
- Responsible and dutiful citizen.
- Critical temper
- Creative ability.

Programme Specific Outcomes B.A. (Hindi)

On completion of B.A (Hindi), Students are able to:

- To understand the basic concept and subject of Hindi & its origin
- To make or not the importance of subject Hindi & its Branches.
- To understand various aspect of Hindi literature with a process to reach method and giving new mode and direction.
- To make a attempt in different area and theory such as vocabulary and vice versa
- To understand in the Literature more in a border areas then Mary confined to subject.
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V.V.Salimath Sc. College
P. G. Centre, SINDAGI.



Course Outcomes

Class: - B.A. Sem-I

Optional Hindi (DSC- I & II)

On completion of the course, students are able to

1. To able to understand 'Mahabharata Ki Ek Saanj' by Bharatbhushan Agrawal
2. To able to understand the eassy by Kubernath Roy.
3. To able to understand the stories by Kamaleshwar and Udayprakash.
4. To able to understand the stories by Sudha Arora and Yashpal

Class: - B.A. Sem-II

Optional Hindi (DSC-III & IV)

On completion of the course, students are able to

1. To able to understand the eassy by Addhyapak Purnasingh.
2. To able to understand the one act play by Jagadishchandra Mathur
3. To able to understand novel by Bhagwaticharan Varma.
4. To able to understand the characters in Chitralekha Novel

Class: - B.A. Sem-III

Optional Hindi (DSC-V & VI)

On completion of the course, students are able to

1. To able to understand the meaning, concept and importance of Functional Hindi.
2. To able to understand various forms of Functional Hindi according to its area of application
3. To able to understand the importance of translation
4. To able to understand various forms of writing in media

Course Outcomes

Class: - B.A. Sem-I

Optional Hindi (DSC- I & II)

On completion of the course, students are able to

1. To able to understand 'Mahabharata Ki Ek Saanj' by Bharatbhushan Agrawal
2. To able to understand the eassy by Kubernath Roy.
3. To able to understand the stories by Kamaleshwar and Udayprakash.
4. To able to understand the stories by Sudha Arora and Yashpal

Class: - B.A. Sem-II

Optional Hindi (DSC-III & IV)

On completion of the course, students are able to

1. To able to understand the eassy by Addhyapak Purnasingh.
2. To able to understand the one act play by Jagadishchandra Mathur
3. To able to understand novel by Bhagwaticharan Varma.
4. To able to understand the characters in Chitralekha Novel

Class: - B.A. Sem-III

Optional Hindi (DSC-V &VI)

On completion of the course, students are able to

1. To able to understand the meaning, concept and importance of Functional Hindi.
2. To able to understand various forms of Functional Hindi according to its area of application
3. To able to understand the importance of translation
4. To able to understand various forms of writing in media

Class: - B.A. SEM-IV

Optional Hindi (DSC-VII & VIII)

On completion of the course, students are able to

1. To able to understand various forms of Functional Hindi language relating to internet.
2. To able to understand use of Functional Hindi language for newspaper, cinema and radio.
3. To able to understand the concept of Right to information.
4. To able to understand the concept of fundamental rights of Indian Constitution.

Class: -B.A. SEM-V

Optional Hindi (Paper-I)

On completion of the course, students are able to

1. To able to understand the origin of Hindi language and its literature.
2. To able to understand identifying the dialects of Hindi language family.
3. To able to Analyses the development of Khariboli Hindi.
4. To able to understand the concept of history of literature.

Class: -B.A. SEM-V

Optional Hindi (Paper-II)

On completion of the course, students are able to

5. To able to understand the origin of Hindi language and its literature.
6. To able to understand identifying the dialects of Hindi language family.
7. To able to Analyses the development of Khariboli Hindi.
8. To able to understand the concept of history of literature.

Class: - B.A. SEM-IV

Optional Hindi (DSC-VII & VIII)

On completion of the course, students are able to

1. To able to understand various forms of Functional Hindi language relating to internet.
2. To able to understand use of Functional Hindi language for newspaper, cinema and radio.
3. To able to understand the concept of Right to information.
4. To able to understand the concept of fundamental rights of Indian Constitution.

Class: -B.A. SEM-V

Optional Hindi (Paper-I)

On completion of the course, students are able to

1. To able to understand the origin of Hindi language and its literature.
2. To able to understand identifying the dialects of Hindi language family.
3. To able to Analyses the development of Khariboli Hindi.
4. To able to understand the concept of history of literature.

Class: -B.A. SEM-V

Optional Hindi (Paper-II)

On completion of the course, students are able to

5. To able to understand the origin of Hindi language and its literature.
 6. To able to understand identifying the dialects of Hindi language family.
 7. To able to Analyses the development of Khariboli Hindi.
 8. To able to understand the concept of history of literature.
-

Class: -B.A. SEM-VI

Optional Hindi (Paper-I)

On completion of the course, students are able to

1. To able to understand the basis of the classification of Hindi literature.
2. To able to understand the importance and basis of the names given to each period of Hindiliterature.
3. To able to understand the features of Adikal, Bhakti kal, Ritikal and Adhunikkal, in context of socio - cultural and political condition of that period.
4. To able to understand the reason of emergence of Adhunikkal in Hindi literature.

Class: -B.A. SEM-VI

Optional Hindi (Paper-II)

On completion of the course, students are able to

1. To able to understand the features of Adikal, Bhakti kal, Ritikal and Adhunikkal, in context of socio - cultural and political condition of that period.
2. To able to understand the reason of emergence of Adhunikkal in Hindi literature.
3. To able to understand the basis of the classification of Hindi literature.
 4. To able to understand the importance and basis of the names given to each period of Hindiliterature.

Class: - B.Sc. I-Sem

HINDI BASIC

On completion of the course, students are able to

1. To able to understand the concept of information technology.
2. To able to use study material from websites of Hindi literature
3. To able to understand the importance and problems of information technology.

Class: -B.A. SEM-VI

Optional Hindi (Paper-I)

On completion of the course, students are able to

1. To able to understand the basis of the classification of Hindi literature.
2. To able to understand the importance and basis of the names given to each period of Hindi literature.
3. To able to understand the features of Adikal, Bhakti kal, Ritikal and Adhunikkal, in context of socio - cultural and political condition of that period.
4. To able to understand the reason of emergence of Adhunikkal in Hindi literature.

Class: -B.A. SEM-VI

Optional Hindi (Paper-II)

On completion of the course, students are able to

1. To able to understand the features of Adikal, Bhakti kal, Ritikal and Adhunikkal, in context of socio - cultural and political condition of that period.
2. To able to understand the reason of emergence of Adhunikkal in Hindi literature.
3. To able to understand the basis of the classification of Hindi literature.
4. To able to understand the importance and basis of the names given to each period of Hindi literature.

Class: - B.Sc. II-Sem

HINDI BASIC

On completion of the course, students are able to

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

Class: - B.Sc. III-Sem

HINDI BASIC

On completion of the course, students are able to

1. To able to understand the concepts of linguistic.
2. To able to understand the different flows of Hindi language (Rajbhasha)
3. To able to understand the introductory concepts of Hindi grammar..

Class: - B.Sc. IV-Sem

HINDI BASIC

On completion of the course, students are able to

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

Class: - B.A. Sem-I

HINDI BASIC

On completion of the course, students are able to

1. To able to understand 'Mahabharata Ki Ek Saanj' by Bharatbhushan Agrawal
2. To able to understand the eassy by Kubernath Roy.
3. To able to understand the stories by Kamaleshwar and Udayprakash.

Team Player: Students will learn team workmanship in order to serve efficiently institutions, industry, and society.

Independent Learner: Apart from the subject-specific skills, generic skills, especially in botany, the program outcome would lead to gain knowledge and skills for further higher studies, Competitive examinations, and employment. Learning outcomes-based curriculum would ensure equal academic standards across the country and a broader picture of their competencies. The Bachelor's program in Botany and Botany honors may be mono-disciplinary or multidisciplinary with following broad objectives.

1. Critically evaluation of ideas and arguments by collecting relevant information about the plants, to recognize the position of the plant in the broad classification and phylogenetic level.
2. 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.
3. Accurately interpretation of collected information and use taxonomical information to evaluate and formulate a position of the plant in taxonomy.
4. 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.
5. Students will be able to present scientific hypotheses and data both orally and in writing in the formats that are used by practicing scientists.
6. Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works.
7. Students will be able to apply fundamental mathematical tools (statistics, calculus) and physical principles (physics, chemistry) to the analysis of relevant biological situations.
8. 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 other forms of life.
9. 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.
10. 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
11. Students will be able to demonstrate proficiency in the experimental techniques and methods of analysis appropriate for their area of specialization within biology.


HEAD
Dept. of Botany
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Coordinator IOAC
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SINDGI-586128


Principal,
Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 5234

Program Outcomes:

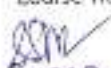
By the end of the program the students will be able to:

- PO1: Skill development for the proper description using botanical terms, identification, naming and classification of life forms especially plants and microbes.
- PO2: Acquisition of knowledge on structure, life cycle and life processes that exist among plant and microbial diversity through certain model organism studies.
- PO3: Understanding of various interactions that exist among plants and microbes; to develop the curiosity on the dynamicity of nature.
- PO4: Understanding of the major elements of variation that exist in the living world through comparative morphological and anatomical study.
- PO5: Ability to explain the diversity and evolution based on the empirical evidences in morphology, anatomy, embryology, physiology, biochemistry, molecular biology and life history.
- PO6: Skill development for the collection, preservation and recording of information after observation and analysis- from simple illustration to molecular database development.
- PO7: Making aware of the scientific and technological advancements- Information and Communication, Biotechnology and Molecular Biology for further learning and research in all branches of Botany..
- PO8: Internalization of the concept of conservation and evolution through the channel of spirit of inquiry.
- PO 9: To enable the graduates to prepare for national as well as international level competitive examinations like UGC-CSIR, UPSC, KPSC etc.
- PO10: To enable the students for practicing the best teaching pedagogy as a biology teacher including the latest digital modules.
- PO 11: The graduates should be knowledgeable and competent enough to appropriately deliver on aspects of global importance like climate change, SDGs, green technologies etc at the right opportunity.
- PO 12: The graduate should be able to demonstrate sufficient proficiency in the hands-on experimental techniques for their area of specialization within biology during research and in the professional career.

Course Outcomes

1. Understand the fascinating diversity, evolution, and significance of microorganisms.
2. Comprehend the systematic position, structure, physiology and life cycles of microbes and their impact on humans and environment.
3. Gain laboratory skills such as microscopy, microbial cultures, staining, identification, preservation of microbes for their applications in research and industry.

Course Title: PLANTS AND HUMAN WELFARE


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V.V.SALIMATH Sc. College,
SINDGI-586128


Principal,
G. P. Porwal Arts, Com &
V. V. Salimath Sc. College
SINDGI-586128. College Code: 52...

Course Outcomes

At the end of the course the student should be able to: 1. To make the students familiar with economic importance of diverse plants that offer resources to human life. 2. To make the students known about the plants used as-food, medicinal value and also plant source of different economic value. 3. To generate interest amongst the students on plants importance in day today life, conservation, ecosystem and sustainability.

Course Outcomes

After completing this course satisfactorily, a student will be able to:

1. Understand the diversity and affinities among Algae, Bryophytes, Pteridophytes and Gymnosperms.
2. Understand the morphology, anatomy, reproduction and life cycle across Algae, Bryophytes, Pteridophytes and Gymnosperms, and their ecological and evolutionary significance.
3. Obtain laboratory skills/explore non-flowering plants for their commercial applications.

Course Title: Bio-fuels

At the end of the course the student should be able to: 1. To make the students familiar with Bio-fuel plant species cultivation for commercial exploitation. 2. To make the students known about the Bio-fuel used in automobile industries and solving fuel problems in feature. 3. To generate interest amongst the students to know the importance of Biofuel in day today life and economic wellbeing

Program Outcomes

PO1: Skill development for the proper description using botanical terms, identification, naming and classification of life forms especially plants and microbes.

PO2: Acquisition of knowledge on structure, life cycle and life processes that exist among plant and microbial diversity through certain model organism studies.

PO3: Understanding of various interactions that exist among plants and microbes; to develop the curiosity on the dynamicity of nature.

PO4: Understanding of the major elements of variation that exist in the living world through comparative morphological and anatomical study.
PO5: Ability to explain the diversity and evolution based on the empirical evidences in morphology, anatomy, embryology, physiology, biochemistry, molecular biology and life history.

PO6: Skill development for the collection, preservation and recording of information after observation and analysis- from simple illustration to molecular database development.

PO7: Making aware of the scientific and technological advancements- information and Communication, Biotechnology and Molecular Biology for further learning and research in all branches of Botany.

PO8: Internalization of the concept of conservation and evolution through the channel of spirit of inquiry.

PO9: To enable the graduates to prepare for national as well as international level competitive examinations like UGC-CSIR, UPSC, KPSC etc.

PO10: To enable the students for practicing the best teaching pedagogy as a biology teacher including the latest digital modules.

PO11: The graduates should be knowledgeable and competent enough to appropriately deliver on aspects of global importance like climate change, SDGs, green technologies etc at the right opportunity.

PO12: The graduate should be able to demonstrate sufficient proficiency in the hands-on experimental techniques for their area of specialization within biology during research and in the professional career.


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SINDGI-586128


Principal,
G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128, College Code: 5234

Course Outcomes: Plant Anatomy and Developmental biology

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.

8. Enthusiasm to understand evolution based on the variations in reproduction among plants.

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

Recognize the basic medicinal plants.

1. Apply techniques of conservation and propagation of medicinal plants.

2. Setup process of harvesting, drying and storage of medicinal herbs.

3. Propose new strategies to enhance growth of medicinal herbs considering the practical issues pertinent to India.

HEAD
Dept. of Botany
G.P.P. & V.V.S. College
SINDGI - 586 128

Coordinator IQAC

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V. V. Salimath Sc. College
SINDGI-586128. College Code: 5234

Principal,

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SINDGI-586128. College Code: 5234



S.P.V.V.S'S

**G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE
COLLEGE, SINDGI – 586 128 (Dist : Vijayapur. Karnataka State)**

Affiliated to Rani Channamma University, Belagavi

Accredited at 'B' Grade (2.42 CGPA) by NAAC

E-mail: gppprincipal@gmail.com Web: www.gppvvs.ac.in Ph: 08488-221244 Mobile : 9611032604

DEPARTMENT OF BOTANY

Program Learning Outcomes

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.

Analytical ability:


The students will be able to demonstrate the knowledge in understanding research and addressing practical problems.


1. Application of various scientific methods to address different questions by formulating the hypothesis, data collection, and critically analyze the data to decipher the degree to which their scientific work supports their hypothesis. Critical Thinking and problem-solving ability:

An increased understanding of fundamental concepts and their applications of scientific principles is expected at the end of this course. Students will become critical thinkers and acquire problem solving capabilities.

Digitally equipped: Students will acquire digital skills and integrate the fundamental concepts with modern tools.

Ethical and Psychological strengthens: Students will also strengthen their ethical and moral values and shall be able to deal with psychological weaknesses.


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**Department of Sociology
2018- 19**

1. Program outcome B.A Sociology

Sociology is a fast developing. It is trying to touch upon all the aspects of the man's social life
Hence it has developed number of specialized Fields or branches to study different facts of man's social life. Each branches has its own method and technique. The number of these branches is increasing day by day and accordingly the scope of sociology is also expanding.

2. Program specific (Sociology) outcome

A list of some main fields of sociological study is cited below.

7. Rural Sociology – Study of village life deals with the rural institutions, rural social structure, rural planning, rural change, rural social change, rural problems, rural welfare etc.
8. Industrial Sociology- Study of industrial relations and activities. It comes into being due to the experiments. It is helpful in promoting industrial growth and welfare.
9. Urban Sociology – It is a great help in understanding the city and its problems. It gives suggestions for urban planning and control and study of city life and city organization and promotion of city welfare.
10. Sociology of education – Studies the functional relationship between school and other institutions of society. Deals with the Social determinants of education.
11. Sociology of family – Deals with family its origin development forms, functions, changes, problems etc.
12. Sociology of law – Studies how social conditions, influence the making and enforcement of law etc.

3. Course outcome (Sociology)

The study of sociology has a great value specially in modern complex society. Some of the uses of the sociology are follows:

- Sociology Studies society in a scientific way
- Sociology helps us to become broad minded.
- Enlightens regarding the major social institutions.
- Helps us to face social problems
- Need for sociology in underdeveloped countries
- Knowledge is necessary for social planning and welfare.
- Study of society helps the promotion of tribal welfare.
- Sociology is useful as a teaching subject too and the posts of IAS, IFS, IPS & KAS etc. Sociology is introduced as one among the other science.
- Keeps up up-to-date on modern social situations and Data's and developments


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Department of Sociology - Course out come
(NEP - 2020 Syllabus)
2022- 23

Program Objectives:

1. Introduce the students to the basic concepts and processes in sociology to understand the social life.
2. Provide different perspectives of understanding the social life of people
3. Update the students with different fields of Sociology and latest developments in the field
4. Develop the skills to analyze, interpret and present today's social situation, developments & problems.
5. Critically appreciate the social construction of reality
6. Ability to examine, relate and connect theory with research
7. Equip the students to develop communication skills
8. Prepare the students to enter the professional field with ethical responsibility & knowledge as teachers, researchers, administrators, facilitators etc. by exercising intellectual autonomy

Program Outcomes:

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

1. Think critically by exercising sociological imagination
2. Question common wisdom, raise important questions and examine arguments
3. Collect and analyze data, make conclusions and present arguments
4. Think theoretically and examine the empirical data
5. Skillfully Participate In Research Groups and market Research Firms
6. Serve in Development Agencies, Government Departments and Projects
7. Be a Social Entrepreneur, Community Worker, Survey Designer, Research Analyst, Social Statistician
8. Transfer Skills as a Teacher, Facilitator of Community Development
9. Competent to make a difference in the community

Course Outcomes:

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

1. Understand the nature and role of Sociology in a changing world
2. Comprehend the uniqueness of sociological Imagination in the study of real world
3. Recognize different perspectives of perceiving the workings of social groups
4. Differentiate between sociology's two purposes - science and social reform
5. Express one's understanding of current social issues in oral and written forms


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2021 Department of Sociology → Course out come
2022 (NEP - 2020 Syllabus)
2021- 22

Program Objectives:

1. Introduce the students to the basic concepts and processes in sociology to understand the social life.
2. Provide different perspectives of understanding the social life of people
3. Update the students with different fields of Sociology and latest developments in the field
4. Develop the skills to analyze, interpret and present today's social situation, developments & problems.
5. Critically appreciate the social construction of reality
6. Ability to examine, relate and connect theory with research
7. Equip the students to develop communication skills
8. Prepare the students to enter the professional field with ethical responsibility & knowledge as teachers, researchers, administrators, facilitators etc. by exercising intellectual autonomy

Program Outcomes:


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

1. Think critically by exercising sociological imagination
2. Question common wisdom, raise important questions and examine arguments
3. Collect and analyze data, make conclusions and present arguments
4. Think theoretically and examine the empirical data
5. Skillfully Participate in Research Groups and market Research Firms
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Course Outcomes:

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

1. Understand the nature and role of Sociology in a changing world
2. Comprehend the uniqueness of sociological imagination in the study of real world
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4. Differentiate between sociology's two purposes - science and social reform
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Department of Sociology → Cours out Come
2020- 21

1. Program outcome B.A Sociology

Sociology is a fast developing. It is trying to touch upon all the aspects of the man's social life Hence it has developed number of specialized Fields or branches to study different facts of man's social life. Each branches has its own method and technique. The number of these branches is increasing day by day and accordingly the scope of sociology is also expanding.

2. Program specific (Sociology) outcome

A list of some main fields of sociological study is cited below.

19. Rural Sociology – Study of village life deals with the rural institutions, rural social structure, rural planning, rural change, rural social change, rural problems, rural welfare etc.
20. Industrial Sociology- Study of Industrial relations and activities. It comes into being due to the experiments. It is helpful in promoting industrial growth and welfare.
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23. Sociology of family – Deals with family its origin development forms, functions, changes, problems etc.
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3. Course outcome (Sociology)

The study of sociology has a great value specially in modern complex society. Some of the uses of the sociology are follows:

- Sociology Studies society In a scientific way
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- Keeps up up-to-date on modern social situations and Data's and developments


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Department of Sociology → courses out come
2019- 20

1. Program outcome B.A Sociology

Sociology is a fast developing. It is trying to touch upon all the aspects of the man's social life
Hence it has developed number of specialized Fields or branches to study different facts of man's social life. Each branches has its own method and technique. The number of these branches is increasing day by day and accordingly the scope of sociology is also expanding.

2. Program specific (Sociology) outcome

A list of some main fields of sociological study is cited below.

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V.V.Salimath Sc. College
& P. G. Centre, SINDAGI.

COURSE OUTCOMES.

1) Evidence for the quality of the program is provided by continued recognition/certification from outside agencies.

The faculty competence and enthusiasm are continually evaluation are valuated by students through course evaluations, the exit interview, annual students focus groups & alumni surveys.

2) Degree programs are regularly evaluated relative to certification guidelines. Programs are also compared to parallel programs at other institutions. Students feedback is solicited via the exit questionnaire.

3) The capstone research program page is summarized by a written report & results presented in professional meeting.

4) Students self-perfection of preparation is assessed via alumni surveys.

Anecdotal evidence concerning the skills of our graduates is often provided by employers.

5) The students will also be required to pass the praxis Chemistry subject test. In addition the graduates retrospective perceptions of their preparation is evaluated via the alumni survey.

Shangada
H.O.D.

Dept. of Chemistry
G.P. Porwal Arts & Commerce &
V.V. Salimath Science College
MUMBAI - 400 082

[Signature]
Coordinator IQAC

[Signature]
Chairperson IQAC



Bachelor of Science (Basic/Hons)
Chemistry Department

As per NEP

PROGRAMME OUTCOME for B.Sc Chemistry:

The B.Sc programme in Chemistry is designed to develop in students in depth knowledge 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 develops their quantitative and qualitative skills, 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 understanding of the fundamental concepts, principles and processes in main branches of chemistry, namely, 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 use 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 to the structure of the programme. Techniques that effectively

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 acrosswork environments.

Discipline Specific Outcome:(DSC)

- Describe the dual nature of radiation and matter; dual behaviour of matter and radiation, deBroglie's equations, Heisenberg Uncertainty principle and their related problems.
- Quantum mechanics. Derivation of Schrodinger's wave equation.
- Define periodicity, explain the cause of periodicity in properties, and classify the elements into four categories according to their electronic configuration.
- 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.
- 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.
- Understand basic concept of organic reaction mechanism, types of organic reactions, structure, stability and reactivity of reactive intermediates.
- Describe important characteristics of configurationally and conformational isomers. Practice and write conformational isomers of ethane, butane and cyclohexane.
- 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.
- Explain racemic mixture and racemisation, resolution of racemic mixture through mechanical separation, formation of diastereomers, and biochemical methods, biological significance of chirality.
- 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.
- Describe the conditions required for liquefaction of gases. Realise that there is continuity in gaseous and liquid state.
- Explain properties of liquids in terms of intermolecular attractions.
- Understand principles of titrimetric analysis.
- Understand principles of different type's titrations. Titration curves for all types of acids – base titrations.
- Gain knowledge about balancing redox equations, titration curves, theory of redox indicators and applications.
- Understand titration curves, indicators for precipitation titrations involving silver nitrate Volhard's and Mohr's methods and their differences.

Program Specific Outcomes:

- Gain the knowledge of Chemistry through theory and practical's.
- To explain nomenclature, stereochemistry, structures, reactivity and mechanism of the chemical reactions.
- Identify chemical formulae and solve numerical problems.
- Use modern chemical tools, Models, Chem-draw, Charts and Equipments.
- Know structure-activity relationship.
- Understand good laboratory practices and safety.
- Develop research oriented skills.
- Make aware and handle the sophisticated instruments/equipments.

Course Outcomes:

- Write an expression for rate constant K for third order reaction.
- Solve the numerical problems based on Rate constant.
- Understand the term specific volume, molar volume and molar refraction.
- Know the meaning of phase, component and degree of freedom.
- Derive the expression for rotational spectra for the transition from J to $J+1$.
- Know the meaning of various terms involved in co-ordination chemistry.
- To understand Werner's formulation of complexes and identify the types of valences.
- Know the limitations of VBT.
- Know the shapes of d-orbital's and degeneracy of d-orbital's.
- Draw the geometrical and optical isomerism of complexes.
- Define organic acids and bases.
- Distinguish between geometrical and optical isomerism.
- Discuss kinetics, mechanism and stereochemistry of S_N1 and S_N2 reactions.
- Compare between $E1$ and $E2$ reactions.
- Understand the evidences, reactivity and mechanism of various elimination and substitution reactions. Know the principles of common ion effect and solubility product.
- Study the methods of thermo-gravimetric analysis.
- Understand the principles of Spectro-photometric analysis and properties of electromagnetic radiations.
- Study the Voltammetry and Polarography as an analytical tool.
- Measure the absorbance of atoms by AAS. CH-335 Industrial Chemistry.
- Know the importance of chemical industry.

- Classify various insecticides.
- Study the nutritive aspects of food constituents.
- Understand the characteristics of some food starches.
- Study the manufacture of cement, dyes, Glass, Soap and Detergents by modern methods.

Course Outcomes:OEC Chemistry:

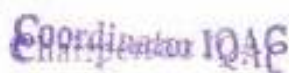
On completion of the course students will be able to:

- Understand the chemical constituents in various day to day materials using by a commonman.
- Understand the chemical constituents in fertilizers, insecticides and pesticides, chemical explosives etc.
- Understand the chemical constituents in polymers, surface coatings etc.
- Acquire knowledge about different types of sugars and their chemical structures.
- Identify different types of amino acids and determine the structure of peptides.
- Explain the action of enzymes in our body and interpret enzyme inhibition.
- Predict action of drugs. Depict the biological importance of oils and fats. Importance of lipids in the metabolism. Differentiate RNA and DNA and their replication. Explain the production of energy in our body.
- To avoid the pollution of air, water and soil.


H.O.D.

Dept. of Chemistry

G P Parvul Arts & Commerce College
V V Salimath Science College
GINDRAT, 526 178


Coordinator IQAC


Chairperson IQAC


Coordinator IQAC

CHEMISTRY

PROGRAM OUTCOMES.

The ultimate Goal of chemistry is to educate students in a way that will allow the to graduate as lifelong learners that are well prepared to their chosen careers.

In order to do this, Faculty strive to establish and maintain a program of excellence that provided foundation and support for several different educational tracks. Includes

- a) The BSc degree's for certification in Chemistry teaching.
- b) Pre-Professional programs such as Pre-Engineering, Pre-Medicine or Pre-Pharmacy.
- c) The Chemistry Emphasis of the physical science MS degree's.
- d) Allied biological & physical science degree's programs.
- e) The University wide general education program.

SPECIFIC OUTCOMES.

- 1) The Chemistry faculty will strive to maintain a quality program in write faculty are knowledgeable in the subject matter being thought, including current research areas, and we enthusiastic about working with student at the undergraduate and graduate levels.
- 2) The Chemistry faculty will continue to review & revise the curriculum to ensure that it is rigorous, logically sequenced, of reflective of the current state of the field.
- 3) They have a functional knowledge of all basic areas of chemistry like analytical, organic & bio-chemistry to increase thinking skills & solve problems.
- 4) Be proficient in the chemistry laboratory especially with respect to laboratory practices, qualitative chemical analysis, chemical synthesis & modern chemical instrumentation.
- 5) To be able to clearly articulate scientific information, both orally in writing and also capstone research project.
- 6) BSc students graduating with chemistry certification will have a chemistry background will allow them to be highly effective teachers at the secondary level.

COURSE OUTCOMES.

1) Evidence for the quality of the program is provided by continued recognition/certification from outside agencies.

The faculty competence and enthusiasm are continually evaluation are valuated by students through course evaluations, the exit interview, annual students focus groups & alumni surveys.

2) Degree programs are regularly evaluated relative to certification guidelines. Programs are also compared to parallel programs at other institutions. Students feedback is solicited via the exit questionnaire.

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Shanley
H.O.D.

Dept. of Chemistry.

G P Poudyal Arts, Science, &
V V Sallimath College

D
Coordinator IQAC

D
Chairperson IQAC



CHEMISTRY

PROGRAM OUTCOMES.

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DEPARTMENT OF HISTORY

2021-22 (NEP)

PREAMBLE

History, as we all know is a vital source to knowledge about a nation's soul of late it has been argued and established that cant be a nation without a past. Today more than ever before, the challenges of globalization obligate historians and researchers to go beyond the of local, national and even continental frontier of their knowledge how ever competing and keeping pace with ever expanding horizon of history, one has to be sensitive in understanding the issues of nation history on large canvas. Absorbing polemics and not only create a belief of continuity by exploring nations past which lie in abundance. This certainly will further initiate a dialog between past and present and a new narrative emerges.

The learning out comes based curriculum framework(LOCF) presented here visualize that gradate training needs to attend to the following considerations.

COURSE Out Come Of History

1. This course is designed to break the stereotypes of History learning and create interest amongst students to study History.
2. This programme is organized to provide the greatest flexibility to its student.
3. There are core Disciplinary papers that provide the fundamental knowledge in the discipline of history and in the study of the history of India and the world.
4. The programme in otherwise envisaged to provide a large amount of choices so that students can tailor their education on the basis of their interests.
5. These provide not just knowledge and skills in history and contemporary history but also is a vital skill for other disciplines as well.
6. The programme course is interdisciplinary keeping in mind that specialization in history is the key to accesses cognate skills from other disciplines.

PROGRAM OUT COMES

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

1. To learn a basic narrative of historical events in a specific region of the world in a specific time frame.
2. To articulate factual and contextual knowledge of specific places and times to make careful comparisons (Across time space and culture)
3. The ability to use bibliographical tools for the advanced study of history.
4. To understand and evaluate different historical ideas various arguments and point of view.
5. To develop an appreciation of themselves and of other through the study of the past in local, regional, national and global context.
6. It instate an appreciation of the uniqueness of visual evidence and cultivate a particular skill of using visual evidence to understand human activity of the recent and distant past.


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Head
Dept. of History
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DEPARTMENT OF HISTORY

PROGRAM OUT COME OF BA. HISTORY

The Bachelor of Arts in History is a broad based program that has specific goals. Including

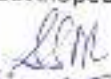
- 1) Engaging the mind and imagination of those who study history
- 2) Introducing students to worlds times. Places and cultures including their own in ways they have never before considered
- 3) Promoting the acquisition of historical knowledge and critical thinking reading writing and research skills upon successful completion of this on line history degree program. Students should be able to demonstrate competency in the vital skills of historical explanation, discernment and synthesis the bachelor of Arts In History, experiences, extensive knowledge of a particular time period or region and specialized writing and research skills.


PROGRAM SPECIFIC OUT COME OF HISTORY

- ❖ Understanding background of our religion customs institutions administration and so on.
- ❖ Understand the present existing social, Political religious and economic conditions of the people.
- ❖ Analyze relationship between the past and present is lively presented in the history.
- ❖ Development practical skills helpful in the study and understanding of historical events.
- ❖ The draw historical maps charts, diagrams etc.
- ❖ The draw historical maps, charts, diagrams etc.
- ❖ Prepare historical models, tools etc.
- ❖ Develop interests in the study of historical and activities relating to history.
- ❖ They collect ancient arts, old coins and other historical materials visit places of historical interests, archaeological sites, museums and archives.
- ❖ The study of history helps to impart moral education.
- ❖ History installs the feeling of patriotism in the heart of pupils.

COURSE OUT COME OF HISTORY

1. Students will critically analyze and interpret primary documents and secondary sources and will be able to interpret qualitative and quantitative data in order to evaluate historical events.
2. Students will develop communication skills through oral and written exercises and develop analytical skills by critically interpreting historical events.
3. Students will analyze how local national and International policies and practices developed in the past continue to impact their contemporary lives.


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SINDGI-586128.


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V. V. Salimath Sc. College
SINDGI-586128. College Code: 5234


Head
Dept. of History
G.P.Arts, Commerce & V.V.S Science

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 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.**

Pawan
Head

Dept. of Mathematics
G.P.P. Arts, Commerce & V.V.E Soering
College, SINDAGI-586129.

Coordinator IQAC
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V.V.SALIMATH Sc. College.
SINDGI-586128


Principal,
G. P. Porwal Arts, Comm &
V.V.E Soering College

- Students will be familiar with the techniques of integration and differentiation of function with real variables.
- Identify and apply the intermediate value theorems and L' Hospital rule.

Course Learning Outcomes:

This course will enable the students to:

Course Learning Outcomes: This course will enable the students to

- Solve the Partial Differential Equations of the first order and second order
- Formulate, classify and transform partial differential equations into canonical form.
- Solve linear and non-linear partial differential equations using various methods; and apply these methods to solving some physical problems.
- Able to take more courses on wave equation, heat equation, and Laplace equation.
- Solve PDE by Laplace Transforms and Fourier Transforms
- Solve first-order non-linear differential equations and linear differential equations.
- To model problems in nature using Ordinary Differential Equations.
- Formulate differential equations for various mathematical models
- Apply these techniques to solve and analyze various mathematical models.
- Understand the fundamental properties of the real numbers that lead to define sequence and series, the formal development of real analysis.
- Learn the concept of Convergence and Divergence of a sequence.
- Able to handle and understand limits and their use in sequences, series, differentiation, and integration.
- Apply the ratio, root, alternating series, and limit comparison tests for convergence and absolute convergence of an infinite series.

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College, SINDGI-586128

Porwal
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G. P. Porwal Arts, Comm &
V. V. Salimath Sc. College
SINDGI-586128, College Code: 5234

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SINDGI – 586 128

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Accredited at B (2.42 CGPA) by NAAC

E-mail: gppprincipal@gmail.com Web: www.gppvvs.ac.in Ph: 9611032604

Department of Mathematics

(2021-2022)

Course Outcomes

This course will enable the students to

- Recognize the mathematical objects called Groups.
- Link the fundamental concepts of groups and symmetries of geometrical objects.
- Explain the significance of the notions of Cosets, normal subgroups and factor groups.
- Understand the concept of differentiation and fundamental theorems in differentiation and various rules.
- Find the extreme values of functions of two variables.
- To understand the concepts of multiple integrals and their applications.
- Recognize the mathematical objects called Groups.
- Link the fundamental concepts of groups and symmetries of geometrical objects.
- Explain the significance of the notions of Cosets, normal subgroups and factor groups.
- Understand the concept of differentiation and fundamental theorems in differentiation and various rules.
- Find the extreme values of functions of two variables.
- Learn to solve system of linear equations.
- Solve the system of homogeneous and non-homogeneous linear of equations in n variables by using concept of rank of matrix, finding eigen values and eigen vectors.
- Sketch curves in Cartesian, polar and ~~pedal~~ equations.

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College, SINDGI - 586 128


Principal,
G. P. Porwal Arts, Comm. &
V.V.S. Science College,

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 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.**

Porwal
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Department of Mathematics

(2020-2021)

COURSE OUTCOMES:

Science (Basic/Hons.) for the subjects with practical's with Mathematics as The subject wise expert committee to draft model curriculum contents in Mathematics constituted by the Department of Higher Education, Government of Karnataka, Bengaluru vide GO No. ED 260 UNE 2019 (PART-1) DATED 13.08.2021 is pleased to submit its partial report on the syllabus for the First Year (First & Second Semesters) B.A./B.Sc.(Basic/Honors) Mathematics and detailed Course Structure for B.A./B.Sc.(Honors) Mathematics and M.Sc. (OneYear) Mathematics.

The committee discussed various models suggested by the Karnataka State Higher Education Council in its joint meetings with the Chairpersons of Board of Studies of all state universities in Karnataka and resolved to adopt Model IIA(Model Program Structure for the Bachelor of Arts (Basic/Hons.) Bachelor of

Major/Minor.

To achieve the core objectives of the National Education Policy 2020 it is unanimously resolved to introduce computer based practical's for the Discipline Core (DSC) courses by using Free and Open Source Software's (FOSS) tools for implementation of theory based on DSC courses as it is also suggested by the LOCF committee that the papers may be taught using various Computer Algebra System (CAS) software's such as Mathematica, MATIAB, Maxima and R to strengthen the conceptual understanding and widen up the horizon of students' self-experience. In view of these observations the subject expert committee suggested the software's Python /R/Maxima/Scilab/Maple/MatLab/Mathematica for hands on experience of implementation of mathematical concepts in computer-based lab. The expert committee suggests the implementation this curriculum structure in all the Departments of Mathematics in Universities/Colleges in Karnataka.

The subject expert committee designed the Course Learning Outcome (CO) to help the learners to understand the main objectives of studying the courses by keeping in mind of the Programme outcomes (PO) of the graduate degree with honors in Mathematics or a graduate degree with Mathematics as a major subject.


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instructions.

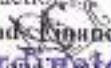
Exit with:	Credits Required
A Diploma upon the Successful Completion of the Second Year (Four Semesters) of the multidisciplinary Four-year Undergraduate Programme/Five-year Integrated Master's Degree Programme	88 - 96

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
Basic Bachelor Degree 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 and skills to manage projects in multidisciplinary


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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 modeling, 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



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SINDGI-586128.


Principal,
G. P. Porwal Arts, Com
V. V. Salimath Sc. Coll
SINDGI-586128. College Co

1. Understand how the scientific method is applied in the physical sciences.
2. Be able to apply knowledge and techniques from physics to solve problems in the other physical sciences.
3. Be able to identify problems for study, conduct independent studies, and be productive members of collaborative teams.
4. Knowledge and understanding of core concepts in physics, including:
 - o Classical mechanics and electromagnetism, thermodynamics and statistical physics, principles of waves and optics, and quantum mechanics.
 - o Setting up experiments, collecting and analyzing data, identifying sources of uncertainty, and interpreting their results in terms of the fundamental principles and concepts of physics.
 - o Understand essential aspects of a problem, formulate a strategy for solution utilizing mathematical and computational methods, make appropriate approximations, and evaluate the correctness of their solution.
5. Effectively communicate results of his or her work to physicists and the public in both oral and written form.
6. Understand public issues in the sciences and be ready and able to contribute to their resolution.
7. Know and adhere to high professional and ethical standards of scientific work.
8. Understand the need to continue learning new concepts and skills throughout life to remain competent and responsible in the conduct of professional and personal activities.


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Principal,
G. P. Porwal Arts, Comm
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SINDGI-586128. College Code:

bms

SPVVSS

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SINDGI – 586 128 DIST: VIJAYAPUR


Dist: Vijayapur) Affiliated to Rani Channamma University-Belagavi (Karnataka State

e-mail:gppprincipal@gmail.com Web: www.gppcollegesindgi.in Ph: 08488-221244

B.Sc. Physics Degree Program Outcomes of B Sc III to VI sem Year: 2021-22

1. Understand how the scientific method is applied in the physical sciences.
2. Be able to apply knowledge and techniques from physics to solve problems in the other physical sciences.
3. Be able to identify problems for study, conduct independent studies, and be productive members of collaborative teams.
4. Knowledge and understanding of core concepts in physics, including:
 - o Classical mechanics and electromagnetism, thermodynamics and statistical physics, principles of waves and optics, and quantum mechanics.
 - o Setting up experiments, collecting and analyzing data, identifying sources of uncertainty, and interpreting their results in terms of the fundamental principles and concepts of physics.
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7. Know and adhere to high professional and ethical standards of scientific work.
8. Understand the need to continue learning new concepts and skills throughout life to remain competent and responsible in the conduct of professional and personal activities


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DMS

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SINDGI - 586 128**

Dist: Vijayapur) Affiliated to Rani Channamma University - Belagavi (Karnataka State


DEPARTMENT OF PHYSICS


PROGRAM OUTCOMES

of

B.Sc. Physics Degree Year: 2017-18

1. Understand how the scientific method is applied in the physical sciences.
2. Be able to apply knowledge and techniques from physics to solve problems in the other physical sciences.
3. Be able to identify problems for study, conduct independent studies, and be productive members of collaborative teams.
4. Knowledge and understanding of core concepts in physics, including:
 - o Classical mechanics and electromagnetism, thermodynamics and statistical physics, principles of waves and optics, and quantum mechanics.
 - o Setting up experiments, collecting and analyzing data, identifying sources of uncertainty, and interpreting their results in terms of the fundamental principles and concepts of physics.
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7. Know and adhere to high professional and ethical standards of scientific work.
8. Understand the need to continue learning new concepts and skills throughout life to remain competent and responsible in the conduct of professional and personal activities.


Head
Dept. of Physics
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MSP

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DEPARTMENT OF PHYSICS

B.Sc. Physics Degree Program Outcomes year 2018-19

1. Understand how the scientific method is applied in the physical sciences.
2. Be able to apply knowledge and techniques from physics to solve problems in the other physical sciences.
3. Be able to identify problems for study, conduct independent studies, and be productive members of collaborative teams.
4. Knowledge and understanding of core concepts in physics, including:
 - a. Classical mechanics and electromagnetism, thermodynamics and statistical physics, principles of waves and optics, and quantum mechanics.
 - b. Setting up experiments, collecting and analyzing data, identifying sources of uncertainty, and interpreting their results in terms of the fundamental principles and concepts of physics.
 - c. Understand essential aspects of a problem, formulate a strategy for solution utilizing mathematical and computational methods, make appropriate approximations, and evaluate the correctness of their solution.
5. Effectively communicate results of his or her work to physicists and the public in both oral and written form.
6. Understand public issues in the sciences and be ready and able to contribute to their resolution.
7. Know and adhere to high professional and ethical standards of scientific work.
8. Understand the need to continue learning new concepts and skills throughout life to remain competent and responsible in the conduct of professional and personal activities


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College, SINDGI - 586 128.

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RMP


Principal,
G. P. Porwal Arts, Comm &
V V Salimath Sc. College
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G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE COLLEGE,
SINDGI - 586 128

Dist: Vijayapur) Affiliated to Rani Channamma University - Belugavi (Karnataka State


DEPARTMENT OF PHYSICS

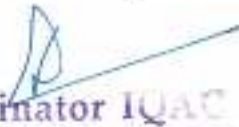
PROGRAM OUTCOMES


of

B.Sc. Physics Degree Year: 2019-20

1. Understand how the scientific method is applied in the physical sciences.
2. Be able to apply knowledge and techniques from physics to solve problems in the other physical sciences.
3. Be able to identify problems for study, conduct independent studies, and be productive members of collaborative teams.
4. Knowledge and understanding of core concepts in physics, including:
 - o Classical mechanics and electromagnetism, thermodynamics and statistical physics, principles of waves and optics, and quantum mechanics.
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DNP

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SINDGI - 586 128

Dist: Vijayapur) Affiliated to Rani Channamma University - Belagavi (Karnataka State)

DEPARTMENT OF PHYSICS

PROGRAM OUTCOMES

Year: 2020-21

of

B.Sc. Physics Degree I & II- Sem (CBCS) and

B.Sc. III, IV, V and VI sem Optional

Knowledge Outcomes

After completing B.Sc. (Physics) Programme students will be able to:

1. Apply the basic principles of Physics to the events occurring around us and also in the world.
2. Try to find out or analyze scientific reasoning for various things.

Skill Outcomes

After completing B.Sc. (Physics) Programme students will be able to:

1. Use of computers and various software and programming skills
2. apply the knowledge to develop the sustainable and eco-friendly technology for pollution free environment
3. collaborate effectively on team-oriented projects in the field of Physics
4. Communicate scientific information in a clear and concise manner both orally and in writing or through audio video presentations

Generic outcomes

Students will

1. develop ability to work in group
2. develop capacity of critical reasoning, judgment and communication skills.
3. Develop abilities for logical thinking


Programme Specific Outcomes

PSO1: Students get acquainted with techniques which are useful in industry.

PSO2: Students get conceptual knowledge of entrepreneurship through the co-curricular activities

PSO3: learn the organizational skills and working in group.

PSO4: Students will be well versed with use of computers


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SPVVS'S

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B.Sc. Physics Degree Program Outcomes

Year: 2021-22

NEP Syllabus introduced for B Sc I sem from October 2021 onwards

PREAMBLE

The New Education Policy (2020) is a paradigm shift from the conventional system we practice even today. Giving students the entire freedom to choose what to learn, how to learn, where to learn and when to learn, will enable a personalized education that suits his/her own personality. The drive to change the pedagogy in the curriculum and syllabi will cater to the cognitive, affective and psycho-motor domain of learning, which will fruitfully engage to student and guide him to ascend the Blooms levels of learning hierarchy, elevating them from just remembering to become creative through acquiring skills of application, evaluation and analysis. Such an approach will enable the institution and the individual to design and execute education that is suitable and doable. The wonderful Academic Credit accumulation and the multiple exit/entry options enable multi- disciplinary obtainable from multiple institutions, and even from recognized digital platforms. This will create unprecedented opportunities to the students to self-evaluate and change course at every stage of education as they learn. Introducing the possibility of cutting across disciplines to pursue one's interest and talent can boost curricular and extra-curricular activities by an equal measure. This will definitely enable the blooming of creativity among individuals who will not only be excellent and productive employees, but also assume the mantle of becoming entrepreneurs and job providers. The opportunity for the teacher to adopt novel pedagogies will make classrooms vibrant, meaningful and effective. The student choices will also lead to a healthy cross-disciplinary interaction between institutions and consequently enhancing their capabilities and credibility.

The NEP-2020 is based on Outcome Based Education, where the Graduate Attributes and employment opportunities are first kept in mind to reverse-design the Programs, Courses and Supplementary activities to attain the graduate attributes and learning outcomes.

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DM

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- Attribute 1: Deep discipline knowledge and intellectual breadth. ...
- Attribute 2: Creative and critical thinking, and problem solving. ...
- Attribute 3: Teamwork and communication skills. ...
- Attribute 4: Professionalism and leadership readiness. ...
- Attribute 5: Intercultural and ethical competency.

The learning outcomes-based curriculum framework for a degree in B.Sc. (Honours) Physics is intended to provide a comprehensive foundation to the subject and to help students develop the ability to successfully continue with further studies and research in the subject while they are equipped with required skills at various stages. The framework is designed to equip students with valuable cognitive abilities and skills so that they are successful in meeting diverse needs of professional careers in a developing and knowledge-based society. The curriculum framework takes into account the need to maintain globally competitive standards of achievement in terms of the knowledge and skills in Physics, as well as develop scientific orientation, spirit of enquiry problem solving skills and human and professional will values which foster rational and critical thinking in the student


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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 enroll, 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:



Types of Pedagogical Approaches

- Constructivist Approach
- Reflective Approach
- Collaborative Approach
- Integrative Approach
- Inquiry-Based Approach

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.


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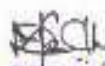

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- CO5 Conserving biodiversity in the face of pressures such as land clearing, pest plants and animals and climate change is a challenge facing land managers and policy-makers globally.
- CO6 Key threats to biodiversity, including habitat modification and loss, unsustainable resource use, introduced species and climate change.
- CO7 Management actions that are used to mitigate threats to biodiversity, including selecting nature reserves, connectivity and wildlife corridors, ecosystem restoration and control of pest plants and animals.
- CO8 Policies to conserve biodiversity including financial incentives, market-based instruments (e.g. biodiversity offsetting), ecological triage and adaptive management.

Project

- CO1: Make research proposal
- CO2: Construct tool of data collection
- CO3: Learn fieldwork modalities
- CO4: Understand the process of data analysis
- CO5: Writing research report


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Dept. of Zoology,
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College, SINDAGI, Dist: Vijayapur


Chairperson IQAC



S.P.V.V.S'S

**G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE
COLLEGE, SINDGI – 586 128 (Dist : Vijayapur. Karnataka State)**

Affiliated to Rani Channamma University, Belagavi

Accredited at 'B' Grade (2.42 CGPA) by NAAC

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DEPARTMENT OF ZOOLOGY

Zoology Program Outcomes, Program Specific Outcomes and Course Outcomes

Zoology Program Outcomes:

Study of Zoology should lead to a clearer insight into and make Students conversant with the existence, functioning and diversity of life forms.

They should have a reasonably in depth knowledge of the origin of life and life- forms at the level of the most basic unit the cell and all the way through organ systems.

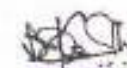
Inter-relation of living and non-living forms, relation between life forms and their habitat will create awareness about sustainable living so essential to ensure future life on planet earth.

Knowledge of basics of applied biology with reference to areas like Pharmacy and Food cultivation and processing, can help in creating jobs, ensuring food security and environmental friendly practices.

Basics of sunrise and important areas in Biology with great potential for higher studies and research can help students take up higher studies and research.

All this has been compiled with the view to make our students confident and competent to participate in national and global educational program and career options.


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1. PO1 - Students gain knowledge and skill in the fundamentals of animal sciences, understands the complex interactions among various living organisms
2. PO2 – Analyse complex interactions among the various animals of different phyla, their distribution and their relationship with the environment
3. PO3 – Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.
4. PO4 – Understands the complex evolutionary processes and behaviour of animals
5. PO5 – Correlates the physiological processes of animals and relationship of organ systems
6. PO6 – Understanding of environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species
7. PO7 – Gain knowledge of Agro based Small Scale industries like sericulture, fish farming, butterfly farming and vermicompost preparation.
8. PO8 – Understands about various concepts of genetics and its importance in human health
9. PO9 - Apply ethical principles and commit to professional ethics and responsibilities in delivering his duties
10. PO10 – Apply the knowledge and understanding of Zoology to one's own life and work
11. PO11 – Develops empathy and love towards the animals

Program Specific Outcomes:

1. PSO1. Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology
2. PSO2. Analyze the relationships among animals, plants and microbes
3. PSO3. Perform procedures as per laboratory standards in the areas of Physiology, Ecology, Cell biology, Genetics, Applied Zoology, tools and techniques of Zoology, Toxicology, Entomology, Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunology and research methodology
4. PSO4. Understand the applications of biological sciences in Apiculture, Aquaculture, Agriculture.
5. PSO5. Gains knowledge about research methodologies, effective communication and skills of problem solving methods
6. PSO6. Contributes the knowledge for Nation building.

Course Outcomes:

Biology of Non-Chordates (Invertebrates)

- CO1 Describe general taxonomic rules on animal classification
- CO2 Classify Protista up to phylum using examples from parasitic adaptation
- CO3 Classify Phylum Porifera to Echinodermata with taxonomic keys
- CO4 Describe Phylum Nematoda and give examples of pathogenic Nematodes
- CO5 Structure, Life cycle and mode of Transmission, Pathogenicity

Ecology, Zoogeography and Animal Behaviour:

- CO1 Distribution of fauna in different realms interaction
- CO2 Understand Animal behaviour and response of animals to different instincts
- CO3 Interaction of biota abiota
- CO4 Various kinds of Animal adaptations

Animal Diversity – Vertebrates & Developmental Biology:

- CO1 Imparts conceptual knowledge of vertebrates, their adaptations and associations in relation to their environment
- CO2 Classify phylum Protochordates to Mammalia
- CO3 Complex Vertebrate interactions
- CO4 Basic concepts of developmental biology

Cell Biology, Genetics and Evolution:

- CO1 Structural and functional aspects of basic unit of life i.e. cell concepts
- CO2 Mendelian and non mendelian inheritance
- CO3 Concept behind genetic disorder, gene mutations- various causes associated with inborn errors of metabolism
- CO4 Theories of Evolution
- CO5 Knowledge of eras and evolution of species

Physiology and Biochemistry:

- CO1 Seeks to understand the mechanisms that work to keep the human body alive and functioning
- CO2 Physiological and biochemical understanding through scientific enquiry into the nature of mechanical, physical, and biochemical functions of humans, their organs, and the cells of which they are composed
- CO3 Interactions and interdependence of physiological and biochemical processes

ANIMAL PHYSIOLOGY

- CO1 Students are taught the detailed concepts of digestion, respiration, excretion, the functioning of nerves and muscles
- CO2 Students gain fundamental knowledge of animal physiology
- CO3 Students will gain skill to execute the roles of a biology teacher or medical lab technicians with training as they have basic fundamentals

Animal physiology genetics and evolution

- CO1 Students learn the concepts of endocrine systems and homeostasis a brief account of genetics and organic evolution.
- CO2 This course helps students to gain fundamental knowledge in these topics
- CO3 Students gain fundamental knowledge of physiology and endocrine systems
- CO4 Students gain fundamental knowledge of physiology of homeostasis
- CO5 Understanding of basic concepts of genetics, laws of inheritance and central dogma of biology
- CO6 Understanding of genetic basis of evolution, human karyotyping and speciation

Applied Zoology

- CO1 Understands concepts of fisheries, fishing tools and site selection
- CO2 Aqua culture systems, induced breeding techniques, post harvesting techniques
- CO3 Understands about composition of blood, blood born diseases, autopsy and biopsy
- CO4 Types of immunity, antigens-antibodies and their properties

Entomology:

- CO1 Imparts knowledge of beneficial and non-beneficial insects
- CO2 Knowledge of how they interact with their environment, other species and humans
- CO3 Classification of Insects
- CO4 Role of insects in spread of diseases

Sericulture:

- CO1 Gives knowledge of silk worm rearing
- CO2 Mulberry cultivation
- CO3 Pests and diseases associated with silk worm and mulberry
- CO4 Various process involved in silk production

Research Methodology:

- CO1 Understanding of scientific method, concepts and steps in research
- CO2: Differentiate between the Quantitative and Qualitative Research and understand different types of Research Design
- CO3: Understand the various techniques of Data Collection- Observation, Questionnaire, Interview Schedule; Case Study, Social Survey, Content Analysis
- CO4: Describing various types of Sampling
- CO5: Elaborate on Data Processing and Data Analysis

Immunology:

- CO1 Imparts in depth knowledge of tissues, cells and molecules involved in host defense mechanisms
- CO2 Understanding of types of immunity
- CO3 Interactions of antigens, antibodies, complements and other immune components
- CO4 Understanding of immune mechanisms in disease control, vaccination, process of immune interactions

Clinical science:

- CO1 Gives knowledge related to the techniques involved in detection of various diseases
- CO2 Pathology associated with various diseases
- CO3 Practical skills of conducting basic clinical lab experiments
- CO4 Application of knowledge of clinical science and pathology to one's own life

Animal biotechnology:

- CO1 Imparts the Knowledge to culture animal cells in artificial media.
- CO2 Knowledge of animal cells in culture, growth of cell lines
- CO3 Use in recombinant DNA technology, genetic manipulations and in a variety of industrial processes.

Aquarium fish management

- CO1 Provides knowledge of ornamental fish breeding which is highly professional and attractive avenue for youth

Clinical Science and pathology:

- CO1 Understands about composition of blood, blood born diseases, autopsy and biopsy
- CO2 Techniques of microscopy, microtomy, biopsy, autopsy and immunological techniques
- CO3 Types of immunity, antigens-antibodies and their properties
- CO4 Understanding of pathology of diseases caused by various microorganisms such as bacteria, virus, parasites and fungus

Structural Biology [SB]

- CO1 Allows the students to gain basic knowledge about various bio molecules and their role in metabolism
- CO2 Classification of enzymes, enzyme kinetics
- CO3 Metabolism of carbohydrates, nucleic acids and metabolic disorders
- CO4 Gains understanding of cellular organization and functional biology nucleic acids

Environmental and Conservation Biology [ECB]

Comparative animal physiology- II

CO1 With the study of this paper students gain knowledge in the areas of responses to environment

with study of receptors CNS integration of behavior

CO2 Understanding of the functions of effectors in all aspects as well as the circulatory physiology and reproduction and adaptations by animals to environment

CO3 The students will be well equipped to become very competent in research.

CO4 The course provides employability in teaching fields

Applied Toxicology

CO1 It is a discipline overlapping with biology, chemistry, medicine that involves the study of toxic ants, their mechanism of action.

CO2 It involves the study of the adverse effects of chemical substances on living organisms.

CO3 Skill development in environmental and occupational Toxicology

CO4 It provides opportunities for students research projects, internships in assessing the effects of toxic pollutants on the environment and in the food chain

Medical Entomology I & II

CO1 Medical Entomology is an integral part of applied ecology involving the study of diverse ecto and Endo parasites

CO2 Understanding of fundamental complement of numerous diseases which have significant impact on human health

CO3 Understanding of Insect vector host interactions of many important diseases like Malaria, Filariasis, Dengue etc.

CO4 Understanding of denudation of forests its results in increased human vector contact which have become almost irreversible.

CO5 Course gives insight into physiology, biochemistry and reproduction of insect vectors and their control measures.

CO6 Students gain knowledge about the concepts of overview of Entomology

CO7 Source reduction and environmental methods for vector control, biological control and other Insect bites.

CO8 Knowledge of hormones and Insects

CO9 Students get good insight into how Medical Entomology is acting as a promising factor for entomologist vacancies in both public and private sectors

CO10 Student gains knowledge regarding vector born diseases their pathology, control measures, thus aiming at 'Swachh and Swasth Bharat'

CO11 Students feel confident in teaching Medical Entomology as well as executing research projects

Sericulture

CO1 Gives knowledge of silk worm rearing, mulberry cultivation, pests and diseases associated with silk worm, mulberry and various process involved in silk production. CO2 It is an agro based cottage industry in India that enables them to get self-employment

CO3 Sericulture is a comprehensive subject that gives in depth knowledge of the study of silkworms both physiological as well as commercial purposes including the various processes involved in the formation of silk .

CO4 Students gain knowledge about various systems study of silkworms and cocoons, other defective cocoons

CO5 Reeling and significant diseases seen in the silkworms

CO6 Students feel confident in teaching Sericulture as well as executing research projects

Animal Biotechnology [AB]

CO1 It gives insight into various cell/tissues culture techniques

CO2 Understanding of in vitro culturing of organisms and production of transgenic animals.

CO3 Understanding of cloning of mammals, large scale culture and production from recombinant microorganisms

CO4 Gains skills in medical, environmental biotechnology, biopesticides, Biotechnology of aquaculture and use of animals as bioreactors

CO5 This insight allows students to take into consideration about ethical issues involved in production transgenic animals and BT products.

Fish Biology [FB]

CO1 Course provides them comprehensive understanding about aquatic ecosystem and various economical important fishes.

CO2 Students gain knowledge in the areas of responses characterization and classification of Ostracoderms, placoderms, acanthodians, holocephali, elasmobranchs.

CO3 Students gain knowledge of integumentary system - basic structure of skin, dermal and epidermal pigments, fins, undscales.

CO4 Understanding of embryogenesis - Early development and post embryonic development

CO5 Understanding of fishes habits and habitats and their functional anatomy

CO6 The students will be well equipped to become very competent in research or teaching fields

CO7 It is one of the small scale industry which can provide the student employment opportunity.

Instrumentation and computer applications in biology

CO1 Understanding of basic concepts of instrumentation such as cell fractactionation, homogenation and centrifugation

CO2 Students gain skills in techniques of chromatography, electrophoresis, spectroscopy and radioisotopes

CO3 Students gain skills in histological, immunological and electrophysiological techniques

CO4 Students gain skills in basics of computers, operating systems, overview of programming languages

CO5 Application of internet and statistical bioinformatics in research

Agricultural Nematology

CO1 Students gain knowledge of nematodes, their taxonomic importance, collection and fixation

CO2 Understanding of morphology of nematodes, life cycles, pathogenic and predatory nematodes

CO3 Understanding of feeding mechanisms of nematodes and nematode associations

CO4 Students gain skills of various kinds of nematode control measures

Biodiversity and Conservation

CO1 Biodiversity and conservation explore natural landscapes, species and ecosystems and acquires theories and practical methods in preserving environments and organisms.

CO2 Biodiversity refers not only to endangered species but also to every organism, including microbes and fungi.

CO3 Biodiversity and Conservation increase awareness and understanding of how human life depends on preserving animal species and natural ecosystems.

CO4 Biodiversity and conservation is connected to similar disciplines like environmental science, natural resources management and animal sciences.