



SRI DHARMASTHALA  
MANJUNATHESHWARA COLLEGE (AUTONOMOUS)  
UJIRE - 574 240

(Re-Accredited by NAAC at 'A' Grade with CGPA 3.61 out of 4)

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# SDM LEARNING OUTCOMES 2020-23



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# **PART – I**

## **UNDER GRADUATION**

## 2. PROGRAMME OUTCOMES

### **Programme outcomes of the Three Year Degree General Higher Education Programs identified by the College.**

Students of all undergraduate general degree Programs at the time of graduation will be empowered towards:

- PO1. **Critical Thinking:** Take informed actions after identifying the assumptions that frame their thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at their ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- PO2. **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make sense of the world by connecting people, ideas, books, media and technology.
- PO3. **Social Interaction:** Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
- PO4. **Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- PO5. **Ethics:** Recognize different value systems including their own, understand the moral dimensions of their decisions and to accept their responsibility.
- PO6. **Environment and Sustainability:** Understand and exhibit consciousness of the issues of environmental contexts and sustainable development.
- PO7. **Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.
- PO8. **Problem Solving:** Identify, formulate and analyze complex Socio-Political, socio-economic, socio-cultural problems reaching substantiated conclusions using first principles of mathematics, natural sciences, management and entrepreneurial skills.
- PO9. **Project management and finance:** Demonstrate knowledge and understanding of the finance and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO10. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO11. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO12. **Design/Development of solutions:** Design solutions for complex socio-economic problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

### **3. PROGRAMME SPECIFIC OUTCOMES**

#### **1. Faculty of Arts: BA001**

##### **01) BA-HEP (History, Economics, Political Science)**

##### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as History, Economics, Political Science, etc.

PSO2: Possess a broad, liberal arts foundation and an understanding of how developments in social and intellectual history shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, and various theories in the concerned subjects. Understand concepts, principles and theories related to history, economics and political science and acquire capacity to explain how and why important events happen

PSO4: Gain the analytical ability to analyze the social, historical, economic and political issues and suggest improvements for better results.

PSO5: Demonstrate a more advanced working knowledge of at least one social science discipline.

PSO6: Apply economic theories and concepts to contemporary social issues, as well as formulation and analysis of policy

PSO7: Articulate thoughts and ideas about economics, political concepts and systems in both written and oral modes.

PSO8: Demonstrate the competencies to function efficiently in social/ profession related career

PSO9: Emerge as an independent and a self-reliant person Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of unity, equality, nationality, social harmony and such other human values



## **02) BA-HEZ (History, Economics, Psychology)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as History, Economics, Psychology, etc.

PSO2: Possess a broad, liberal arts foundation and an understanding of how developments in social and intellectual history shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, and various theories in the concerned subjects. Understand concepts, principles and theories related to History, Economics and Psychology and acquire capacity to explain how and why important events happen

PSO4: Gain the analytical ability to analyze the social, historical, economic and psychological issues and suggest improvements for better results.

PSO5: Demonstrate a more advanced working knowledge of at least one social science discipline.

PSO6: Apply theories and concepts of psychology to contemporary social issues, as well as formulation and analysis of policy

PSO7: Articulate thoughts and ideas in economic, political and psychological issues both written and oral modes.

PSO8: Demonstrate the competencies to function efficiently in social/ profession related career

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of unity, equality, nationality, social harmony and such other human values

### **03) BA-HER (History, Economics, Rural Development)**

#### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as History, Economics, Rural Development, etc.

PSO2: Possess a broad, liberal arts foundation and an understanding of how developments shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, and various theories in the concerned subjects and acquire capacity to explain how and why important events happen

PSO4: Gain the analytical ability to analyze the social, historical, economic and development issues and suggest improvements for better results.

PSO5: Demonstrate a more advanced working knowledge of at least one social science discipline.

PSO6: To enhance critical thinking by making them participate in social activities and imbibe human values among them.

PSO7: Articulate thoughts and ideas in in economic and development issues both written and oral modes.

PSO8: Inculcate critical thinking to carry out scientific investigation objectively without being biased with preconceived notions.

PSO9: To encourage the students to participate in research at different levels through projects, interviews, surveys and field visits

PSO10: Involve in discussions to spread the messages of unity, equality, nationality, social harmony and such other human values

#### **04) BA-HES (History, Economics, Sanskrit)**

##### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as History, Economics, Sanskrit, etc.

PSO2: Possess a broad, liberal arts foundation and an understanding of how Indian historical, economical and philosophical aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, and various theories in the concerned subjects and acquire capacity to explain how and why important events happen

PSO4: Gain the analytical ability to analyze the social, historical, economic and development issues and suggest improvements for better results.

PSO5: Demonstrate a more advanced working knowledge of at least one social science discipline.

PSO6: Apply theories and concepts of development to contemporary social issues, as well as formulation and analysis of policy

PSO7: Articulate thoughts and ideas in in development issues both written and oral modes.

PSO8: Demonstrate the competencies to function efficiently in social/ profession related career

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of unity, equality, nationality, social harmony and such other human values

## **05) BA-HYP (History, Optional English, Political Science)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as History, Political Science, English, etc.

PSO2: Possess a broad, liberal arts foundation and an understanding of how Indian historical and political aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles and various theories in the concerned subjects.

PSO4: Gain the analytical ability to analyze the social, historical, economic and development issues and suggest improvements for better results.

PSO5: Demonstrate a more advanced working knowledge of at least one social science discipline.

PSO6: Apply theories and concepts of development to contemporary social issues, as well as formulation and analysis of policy

PSO7: To make the students aware of and responsible towards gender, religion, and class equality

PSO8: Demonstrate the competencies to function efficiently in social/ profession related career

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of unity, equality, nationality, social harmony and such other human values

## **06) BA-HYZ (History, Optional English, Psychology)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as History, Psychology, English, etc.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and psychological aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to understand major concepts, theories, principles, perspectives, historical roots and empirical findings making students theoretically informed and insightful about one's own and others' behaviors and mental processes.

PSO4: Gain the analytical ability to analyze the social, historical, economic and development issues and suggest improvements for better results.

PSO5: Demonstrate a more advanced working knowledge of at least one social science discipline.

PSO6: Apply theories and concepts of development to contemporary social and psychological issues, as well as formulation and analysis of policy

PSO7: Will be able to locate, evaluate and apply psychological information and conduct basic psychological/ historical research

PSO8: Demonstrate the competencies to function efficiently in social/ profession related career

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of unity, equality, nationality, social harmony and such other human values

## **07) BA-HYR (History, Optional English, Rural Development)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as History, Rural Development, English, etc.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and developmental aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles and various theories in the concerned subjects. Able to comprehend various forms of literature. Acquire capacity to explain how and why important events happen

PSO4: Gain the analytical ability to analyze the social, historical, economic and development issues and suggest improvements for better results.

PSO5: Demonstrate a more advanced working knowledge of social science discipline.

PSO6: Apply theories and concepts of development to contemporary social issues, as well as formulation and analysis of policy

PSO7: Will be able to locate, evaluate and apply development information and conduct basic research on development issues

PSO8: Demonstrate the competencies to function efficiently in social/ profession related career

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of unity, equality, nationality, social harmony and such other human values

## **08) BA-HKP (History, Kannada, Political Science)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as History, Political Science, Kannada, etc.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and political and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles and various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Gain the analytical ability to analyze the social, historical, political issues and suggest improvements for better results.

PSO5: Demonstrate a more advanced working knowledge of social science discipline.

PSO6: Acquire capacity to explain how and why important events happen and apply theories and concepts of development to contemporary social issues, as well as formulation and analysis of policy

PSO7: Will be able to locate, evaluate and apply development information and conduct basic research on development issues

PSO8: Demonstrate the competencies to function efficiently in social/ profession related career

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of unity, equality, nationality, social harmony and such other human values

## **09) BA-HKZ (History, Kannada, Psychology)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as History, Psychology, Kannada, etc.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and psychological aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles and various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Gain the analytical ability to analyze the social, historical, psychological issues and suggest improvements for better results.

PSO5: Able to understand major concepts, theories, principles, perspectives, historical roots and empirical findings making students theoretically informed and insightful about one's own and others' behaviors and mental processes.

PSO6: Apply theories and concepts of development to contemporary social issues, as well as formulation and analysis of policy

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the competencies to function efficiently in social/ profession related career

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of unity, equality, nationality, social harmony and such other human values



## **10) BA-HKZ (History, Kannada, Rural Development)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as History, Rural Development, Kannada, etc.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and developmental aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles and various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Gain the analytical ability to analyze the social, historical, developmental issues and suggest improvements for better results.

PSO5: Acquire capacity to explain how and why important events happen and demonstrate a more advanced working knowledge of social science discipline.

PSO6: Apply theories and concepts of development to contemporary social issues, as well as formulation and analysis of policy

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the competencies to function efficiently in social/ profession related career

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of unity, equality, nationality, social harmony and such other human values

## **11) BA-HKS (History, Kannada, Sanskrit)**

### **Program Specific Outcomes:**

- PSO1: Acquire knowledge of specific subjects such as History, Sanskrit, Kannada, etc.
- PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.
- PSO3: Understand the basic concepts, fundamental principles and various theories in the concerned subjects. Able to comprehend various forms of literature.
- PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.
- PSO5: Reasonable understanding of multi-disciplinary relevance of literature of Kannada and Sanskrit like Veda, Philosophy, Grammar, Kavya, Smitisastra etc.
- PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.
- PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues
- PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.
- PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people
- PSO10: Involve in discussions to spread the messages of unity, equality, nationality, social harmony and such other human values

## **12) BA-XEZ (Home Science, Economics, Psychology)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Economics, Psychology, Home Science etc.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand major concepts, theories, principles, perspectives, historical roots and empirical findings making students theoretically informed and insightful about one's own and others' behaviors and mental processes.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Acquire professional and entrepreneurial skills for economic empowerment of self in particular, and community in general.

PSO6: Understand and appreciate the role of interdisciplinary sciences in the development and well-being of individuals, families and communities.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

### **13) BA-XYP (Home Science, Optional English, Political Science)**

#### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Home Science, English, and Political Science

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Acquire professional and entrepreneurial skills for economic empowerment of self in particular, and community in general.

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

#### **14) BA-XYZ (Home Science, Optional English, Psychology)**

##### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Home Science, English and Psychology.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand major concepts, theories, principles, perspectives, historical roots and empirical findings making students theoretically informed and insightful about one's own and others' behaviors and mental processes.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Acquire professional and entrepreneurial skills for economic empowerment of self in particular, and community in general.

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **15) BA-XYR (Home Science, Optional English, Rural Development)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Home Science, English and Rural Development.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Acquire professional and entrepreneurial skills for economic empowerment of self in particular, and community in general.

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **16) BA-XKP (Home Science, Kannada, Political Science)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Home Science, Kannada and Political Science.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Acquire professional and entrepreneurial skills for economic empowerment of self in particular, and community in general.

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **17) BA-XKR (Home Science, Kannada, Rural Development)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Home Science, Kannada and Rural Development.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Acquire professional and entrepreneurial skills for economic empowerment of self in particular, and community in general.

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values



## **18) BA-JEP (Journalism, Economics, Political Science)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Journalism, Economics and Political Science.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Develop the ability to make logical inferences about social and political issues on the basis of comparative and historical knowledge

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **19) BA-JEZ (Journalism, Economics, Psychology)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Journalism, Economics and Psychology

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Able to understand major concepts, theories, principles, perspectives, historical roots and empirical findings making students theoretically informed and insightful about one's own and others' behaviors and mental processes.

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **20) BA-JER (Journalism, Economics, Rural Development)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Journalism, Economics and Rural Development

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Acquire knowledge of different dimensions of communication, historical perspectives and other related areas of studies.

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **21) BA-JYP (Journalism, Optional English, Political Science)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Journalism, English, Political Science and acquire knowledge of different dimensions of communication, historical perspectives and other related areas of studies.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Develop the ability to make logical inferences about social and political issues on the basis of comparative and historical knowledge

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **22) BA-JYZ (Journalism, Optional English, Psychology)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Journalism, English, Psychology and different dimensions of communication, historical perspectives and other related areas of studies.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Develop the ability to make logical inferences about social and political issues on the basis of comparative and historical knowledge

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **23) BA-JYR (Journalism, Optional English, Rural Development)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Journalism, English and Rural Development.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Reasonable understanding of multi-disciplinary relevance of literature of Kannada and Sanskrit like Veda, Philosophy, Grammar, Kavya, Smitisastra etc.

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **24) BA-JYP (Journalism, Optional English, Political Science)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Journalism, English and Political Science.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Develop the ability to make logical inferences about social and political issues on the basis of comparative and historical knowledge

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **25) BA-JKZ (Journalism, Kannada, Psychology)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Journalism, Kannada and Psychology.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Able to understand major concepts, theories, principles, perspectives, historical roots and empirical findings making students theoretically informed and insightful about one's own and others' behaviors and mental processes.

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values



## **26) BA-JKS (Journalism, Kannada, Sanskrit)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Journalism, Kannada and Sanskrit.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Reasonable understanding of multi-disciplinary relevance of literature of Kannada and Sanskrit like Veda, Philosophy, Grammar, Kavya, Smitisastra etc.

PSO6: Develop a strong concept of ancient Indian history, philosophy and literature.

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **27) BA-NEP (NCC, Economics, Political Science)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Economics, Political Science and NCC.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Develop the ability to make logical inferences about social and political issues on the basis of comparative and historical knowledge

PSO6: Able to demonstrate an ability to identify alternative solutions to problems

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **28) BA-NER (NCC, Economics, Rural Development)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Economics, Rural Development and NCC.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Understand different categories of rural development policies and programmes and its impact on rural poverty and unemployment.

PSO6: Able to demonstrate an ability to identify alternative solutions to problems

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **29) BA-NYP (NCC, Optional English, Political Science)**

### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as English, Political Science and NCC.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Develop the ability to make logical inferences about social and political issues on the basis of comparative and historical knowledge

PSO6: Develop a strong concept of ancient Indian philosophy and literature and reasonable understanding of multi-disciplinary relevance of literature

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

### **30) BA-NYZ (NCC, Optional English, Psychology)**

#### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as English, Psychology and NCC.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Able to understand major concepts, theories, principles, perspectives, historical roots and empirical findings making students theoretically informed and insightful about one's own and others' behaviors and mental processes.

PSO6: Develop a strong concept of ancient Indian philosophy and literature and reasonable understanding of multi-disciplinary relevance of literature

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

### **31) BA-NKR (NCC, Kannada, Rural Development)**

#### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as Kannada, Rural Development and NCC.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Understand different categories of rural development policies and programmes and its impact on rural poverty and unemployment.

PSO6: Develop a strong concept of ancient Indian philosophy and literature and reasonable understanding of multi-disciplinary relevance of literature

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

### **32) BA-NYR (NCC, Optional English, Rural Development)**

#### **Program Specific Outcomes:**

PSO1: Acquire knowledge of specific subjects such as English, Political Science and NCC.

PSO2: Possess a broad, liberal arts foundation and an understanding of how historical and cultural aspects shape and affect human values and institutions.

PSO3: Understand the basic concepts, fundamental principles, various theories in the concerned subjects. Able to comprehend various forms of literature.

PSO4: Acquire capacity to explain how and why important events happen and gain the analytical ability to analyze the social, historical, cultural issues and suggest improvements for better results.

PSO5: Understand different categories of rural development policies and programmes and its impact on rural poverty and unemployment.

PSO6: Develop a strong concept of ancient Indian philosophy and literature and reasonable understanding of multi-disciplinary relevance of literature

PSO7: Will be able to locate, evaluate and apply contemporary information and conduct basic research on development issues

PSO8: Demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO9: Emerge as an independent and a self-reliant person, Work effectively in groups to meet a shared goal with the people

PSO10: Involve in discussions to spread the messages of equality, nationality, social harmony and such other human values

## **2. Faculty of Science: BSC002**

### **Program Specific Outcomes:**

**PSO1:**Acquire knowledge of specific subjects such as Physics, Chemistry, and Mathematics

**PSO2:**Apply appropriate methods of research and investigation to solve problems in related subjects

**PSO3:**Understand basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in day-to-day life.

**PSO4:**Acquire the skills in handling scientific instruments, planning and performing in laboratory experiments

**PSO5:**Develop team spirit and co- ordination in students through experiential and investigative laboratory learning.

**PSO6:**Develop ability to logically analyze data and solve problems systematically and objectively analyze open ended problems.

**PSO7:**Develop skills necessary to plan, design and conduct experiments to test, demonstrate, verify and extend theoretical knowledge

**PSO8:**Imbibe ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.

**PSO9:**Demonstrate generic competencies such as communicating technical concepts in popular language, skilled use of ICT and ability to work both individually and in groups

**PSO10:**Analyze the applications of mathematics to the problems in physics & develop suitable mathematical method for such applications& formulation of physical theories



## **2.BSC- PMS**

**PSO1:**Acquire knowledge of specific subjects such as Physics, Mathematics and statistics

**PSO2:**Employ highly developed conceptual and analytical skills.

**PSO3:**Analyze the applications of mathematics to the problems in physics & develop suitable mathematical method for such applications and formulation of physical theories.

**PSO4:**Analyze the given scientific data critically and systematically

**PSO5:**Understandthe analytical methods required to interpret and analyze results and draw conclusions as supported by their data.

**PSO6:**Take up competitive examinations as the knowledge of science is a definite advantage at the entrance examination of Indian Administrative Services and other state and central Govt. services.

**PSO7:**Recognize the importance of mathematical modelling simulation and computing, and the role of approximation and mathematical approaches to describing the physical world.

**PSO8:**Develop skills necessary to plan, design and conduct experiments to test, demonstrate, verify and extend theoretical knowledge

**PSO9:**Understand basic theoretical and applied principles of statistics needed to enter the job force.

**PSO10:**Communicate basic statistical concepts to non-statisticians.

### **3.BSC- PMC**

**PSO1:**Acquire knowledge of specific subjects such as Physics, Mathematics and computer science

**PSO2:**Think creatively to propose novel ideas in explaining facts and figures

**PSO3:**Able to understand, analyze and develop software programs in the areas related to system software, web design, application program

**PSO4:**Serve as the Programmers or the Software Engineers with the sound knowledge of practical and theoretical concepts for developing software.

**PSO5:**Demonstrate relevant generic skills and global competencies such as problem solving, investigative, communicative and ICT skills

**PSO6:**Develop the team spirit and co- ordination among students through experiential and investigative laboratory learning.

**PSO7:**Develop skills necessary to plan, design and conduct experiments to test, demonstrate, verify and extend theoretical knowledge

**PSO8:**Analyze the applications of mathematics to the problems in physics & develop suitable mathematical method for such applications and formulation of physical theories

**PSO9:**Improve their computer literacy, their basic understanding of operating systems and a working knowledge of software commonly used in academic and professional environments.

**PSO10:**Imbibe ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.

#### **4.BSC-SMC**

**PSO1:** Able to understand, analyze and develop software programs in the areas related to system software, web design, application program

**PSO2:**Execute a solution process using first principles of science to solve problems related to respective discipline.

**PSO3:**Serve as the Programmers or the Software Engineers with the sound knowledge of practical and theoretical concepts for developing software.

**PSO4:**Demonstrate relevant generic skills and global competencies such as problem solving, investigative, communicative and ICT skills

**PSO5:** Develop the team spirit and co- ordination in students through experiential and investigative laboratory learning.

**PSO6:**Develop skills necessary to plan, design and conduct experiments to test, demonstrate, verify and extend theoretical knowledge

**PSO7:**Acquire a systematic understanding of the different areas of study in statistics, mathematics and computer science

**PSO8:**Analyze the applications of mathematics to the problems & develop suitable mathematical method for such application

**PSO9:**Improve their computer literacy, their basic understanding of operating systems and a working knowledge of software commonly used in academic and professional environments.

**PSO10:**Imbibe ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.

## **5.BSC- CBB**

**PSO1:**Acquire knowledge of specific subjects such as Chemistry, Botany and Biotechnology

**PSO2:**Develop the team spirit and co- ordination among students through experiential and investigative laboratory learning.

**PSO3:**Develop the team spirit and co- ordination in students through experiential and investigative laboratory learning.

**PSO4:**Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in day-to-day life.

**PSO5:**Develop skills necessary to plan, design and conduct experiments to test, demonstrate, verify and extend theoretical knowledge

**PSO6:**Understand the structural organization and variation in chromosomes

**PSO7:**Understand Plant Diversity and its importance in the maintenance of ecological balance

**PSO8:**Able to grasp basic knowledge on various domains of biotechnology

**PSO9:**Understand the diversity, morphology, classification, anatomy and the reproductive features of the flora.

**PSO10:**Develop knowledge related to cytology, metabolism, physiology and applied aspects of plant science.

## 6.BSC -CBP

**PSO1:**Inculcate broad and balanced knowledge and understanding of key concepts in chemical, biological and psychological sciences

**PSO2:**Plan and carry out experiments independently and assess the significance of outcomes and cater to the demands of scientific field

**PSO3:**Develop the team spirit and co- ordination in students through experiential and investigative laboratory learning.

**PSO4:**Develop skills necessary to plan, design and conduct experiments to test, demonstrate, verify and extend theoretical knowledge

**PSO5:**Understood the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in day-to-day life.

**PSO6:**Acquire a systematic understanding of the different areas of study in Chemistry, Botany and Psychology

**PSO7:**Possess a broad understanding of how psychological aspects shape and affect human values

**PSO8:**Understand Plant Diversity and its importance in the maintenance of ecological balance

**PSO9:**Understand the diversity, morphology, classification, anatomy and the reproductive features of the flora.

**PSO10:**Develop knowledge related to cytology, metabolism, physiology and applied aspects of plant science.

### **3. Faculty of Commerce: B.COM003**

#### **Program Specific Outcomes:**

- PSO1: Undertake independently or jointly any enterprise as full- fledged professional
- PSO2: Apply theories and concepts in the workplaces through the techniques of problem solving skills, financial management skills, analytical skills, synchronizing skills, decision making skills, presentation and reporting skills, juxtaposing skills, numerical skills, writing skills, language skills,
- PSO3: Employ highly developed conceptual, analytical, quantitative and technical skills.
- PSO4: Articulate the contributions made by people of diverse perspectives, cultures and backgrounds.
- PSO6: Evaluate the role of business management, commerce and accountancy in addressing current issues faced by the local and global communities, such as unregulated market, price fluctuation affecting the farmers, unsecured small entrepreneurial ventures, risky investments.
- PSO7: Articulate the contributions made by people of diverse perspectives, cultures and backgrounds.
- PSO8: Work effectively and efficiently in groups to meet a shared goal with people of diverse cultural backgrounds demonstrate in ethical concerns.
- PSO9: Communicate clearly and convincingly about commercial laws, tax relating issues and ideas, saving and pension schemes to expert and non-expert audiences.
- PSO10: Undertake need based significant projects concerning public and private sectors, banking and other financial organizations engaging in self-directed study and research through the extensive use of ICT and collaborations.

#### **4. Faculty of Computer Applications: BCA004**

##### **Program Specific Outcomes:**

- PSO1: Serve as the Programmers or the Software Engineers with a sound knowledge of practical and theoretical concepts for developing software.
- PSO2: Serve as the Computer Engineers with enhanced knowledge of computers and its building blocks.
- PSO3: Work as System Engineers, System Integrators and System Administrators with thorough knowledge of DBMS, Hardware Designers/Engineers with the knowledge of Networking Concepts.
- PSO4: Work as Support Engineers and Technical Writers, develop IT-oriented security issues and protocols.
- PSO5: Solve problems (programming networking database and Web design) in the Information Technology environment and function effectively in teams to accomplish a common goal and demonstrate professional behavior.
- PSO6: Work as IT Sales and Marketing persons, work as Consultants and Management officers for system management.
- PSO7: Serve as the IT Officers in Banks and cooperative societies DTP Operators in small-scale firms and business organizations.
- PSO8: Serve as the Web Designers with latest web development technologies improve their computer literacy, their basic understanding of operative systems and a working knowledge of software commonly used in academic and professional environments.
- PSO9: Develop criteria to organize and present different type of works in academic and professional environments.
- PSO10: Organize information efficiently in the forms of outlines, charts, etc. by using appropriate software and Present ideas effectively and efficiently in Academic and Professional Presentations.

## **5. Faculty of Business Administration: BBA005**

### **Program Specific Outcomes:**

- PSO1: Demonstrate ability and competency in management professions
- PSO2: Handle appropriately crucial situations in workplaces with appropriate measures
- PSO3: Apply skills and professional competency to maximize results
- PSO4: Articulate and manage challenges successfully
- PSO5: Engage productively through the effective use professional tools
- PSO6: Define the business processes, their interactions and distinguish their specifics
- PSO7: Choose and apply market research methods as per the business needs
- PSO8: Analyze market information and apply it appropriately for growth
- PSO9: Analyze any business, identify the strengths and weaknesses and determine the scope for improvement.
- PSO10: Show the operational ability especially to the continuously changing business environment



## **6. Faculty of Bachelor of Vocational Program: BVOC006**

### **Program Specific Outcomes: Digital Media and Film Making (F1)**

PSO1: Exhibit skills in the arts of digital media.

PSO2: Develop skills in film making in practical adherence to national and global standards.

PSO3: Show theoretical and practical exposure to the production, marketing and developmental aspects and opportunities in both digital media and film making

PSO4: Demonstrate competency in the professional dynamics of digital media and film making.

PSO5: Be aware of the functioning of both the industries and its requirements.

### **Program Specific Outcomes: Retail and Supply Chain Management (F2)**

PSO1: Exhibit highly employable skills at the end with ample skill sets.

PSO2: Be capable of handling retail outlets with its complete knowledge adhering to latest trends.

PSO3: Be competent to hold any managerial position of supply chain.

PSO4: Demonstrate successful entrepreneurs' skills with complete knowledge of business and management concepts.

PSO5: Exhibit an ability to stand high and perform better in the competitive and fast changing retail and supply chain world.

### **Program Specific Outcomes: Application and Software Development (F3)**

- PSO1: Design a basic web site using HTML and CSS to demonstrate responsive web design.
- PSO2: Demonstrate skills using word processor and spreadsheet presentation and Implement Static or dynamic web pages with validation using JavaScript objects by applying different event handling mechanism
- PSO3: Describe XML using the user defined tags, DTD, Namespaces and Schemas with simple programs and discuss the concepts of PHP with associated programs.
- PSO4: Understand and identify the models, components of a computer along with its connections, operating system concepts along with internet operation.
- PSO5: Exhibit skills that can meet local, national and global work standards and discuss different ways to access the database through the web using examples and various server based software using different technologies.

## **Part – 11**

### **Course Outcomes- UG Courses**

**A (1)**

**Faculty of Arts - Economics**

**Title of the Paper: BASECC131 – Micro Economic Analysis**

**Course Outcomes:**

- CO1: Understand basic micro economic theories with graphical illustrations.
- CO2: Apply micro economic theories and concepts to contemporary social issues, as well as formulation and analysis of policy.
- CO3: Develop the skills of analysis and application of the principles to the real world problems.
- CO4: Understand how factor market works, illustrate basic tools in welfare economics, and illustrate the concept of social welfare functions and compensation principles.
- CO5: Develop curiosity for the study of other branches of economics.
- CO6: Appreciate the utility of economics in day - to - day life.

**Title of the Paper: BASECC181 - Macro Economic Analysis**

**Course Outcomes:**

- CO1: Understand basic macro-economic theories with graphical illustrations.
- CO2: Apply macro-economic theories and concepts to contemporary social issues, as well as formulation and analysis of policy.
- CO3: Develop the skills of analysis and application of the principles to the real world problems.
- CO4: Understand the integrated working of a modern economy.
- CO5: Appreciate the role of government in the economic functioning of a nation.

**Title of the Paper: BASECC231 - Monetary Economics**

**Course Outcomes:**

- CO1: Understand basic monetary economic theories.
- CO2: Apply monetary-economic theories and concepts to contemporary social issues, as well as formulation and analysis of policy.
- CO3: Develop the skills of analysis and application of the monetary principles to the real world problems.
- CO4: Understand the integrated working of a modern economy in the global context.
- CO5: Critically analyze the role of Central Bank in the functioning of modern economy.

**Title of the Paper: BASECC281 - International Economics**

**TITLE OF THE PAPER: INTERNATIONAL TRADE AND PUBLIC FINANCE**

**Course Outcomes:**

- CO1: Understand basic international economic theories.
- CO2: Apply trade theories and concepts to contemporary economic issues.
- CO3: Develop the skills of analysis and application of the trade theories and policies to the real world problems.
- CO4: Show the importance of maintaining equilibrium in the balance of payments and suggests suitable measures to correct disequilibrium as well.
- CO5: Be able to understand the integrated working of a modern economy in the global context
- CO6: Apply the knowledge gained from the study of micro and macroeconomics in the field of international economics.
- CO7: Be aware of the changes in the composition as well as direction of foreign trade after international trade and know the causes and effects of deficits in the balance of payments, measures adopted to correct the deficits and identify the need for having trade reforms.

### **Title of the Paper: BASECC331- Economic Thought**

#### **Course Outcomes:**

- CO1: Comprehend the development of the theory of economics in historical perspective.
- CO2: Understand that economic ideas have been instrumental in shaping the economic and political policies of different countries.
- CO3: Demonstrate familiarity with Pre-Classical and Classical economic thought.
- CO4: Comprehend emerging paradigms and aberrations with its reasons.
- CO5: Demonstrate familiarity with different schools of economic thought and realize the similarities and differences among different economy schools.

### **Title of the Paper: BASECC332 - Economics of Development**

#### **Course Outcomes:**

- CO1: Demonstrate familiarity with some central themes and issues of economic development.
- CO2: Demonstrate the understanding of the difference between growth and development, major growth theories, the measurement of inequality, significance of agriculture in developing countries, poverty and population issues facing the world, international trade, and importance of foreign aid.
- CO3: Analyze empirical evidence on the patterns of economic development.
- CO4: Acquire the knowledge and skills to critically evaluate economic problems of developing countries and to effectively participate in the contemporary policy debate on development priorities and policy reforms in these countries.
- CO5: Apply the knowledge gained from the study of micro and macroeconomics in the field of development economics.

### **Title of the Paper: BASECC381 - Indian Economics**

#### **Course Outcomes:**

- CO1: Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.
- CO2: Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.
- CO3: Grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives, failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government.
- CO4: Comprehend agriculture as the foundation of economic growth and development with reference to India.
- CO5: Apply the knowledge gained from the study of micro and macroeconomics in the field of Indian economics.

### **Title of the Paper: BASECC382 - Welfare Economics**

#### **Course Outcomes:**

- CO1: Demonstrate familiarity with some central themes and issues of economic welfare.
- CO2: Comprehend major welfare theories, overview and compare structure of welfare state and social security.
- CO3: Analyze empirical evidence on the patterns of economic welfare.
- CO4: Apply basic concepts, terminology and organizational principles of welfare.
- CO4: Acquire the knowledge and skills to critically evaluate the principles of evaluating income inequality, poverty and social exclusion.
- CO5: Apply the knowledge gained from the study of welfare economics in the field of development economics.

**A. (1.1)**

**Faculty of Arts - Rural Development**

**Title of the Paper: BASRDC131 - Rural Development - Basic Concepts**

**Course Outcomes:**

- CO1: Understand basic economic problems affecting rural areas.
- CO2: Apply theories and concepts to contemporary social issues, as well as formulation and analysis of policy.
- CO3: Develop the skills of analysis and application of the principles to the real world problems.
- CO4: Appreciate need for rural development in India.
- CO5: Comprehend efforts made in rural development.

**Title of the Paper: BASRDC181 - Rural Economy of India**

**Course Outcomes:**

- CO1: Understand basic issues in the rural economy.
- CO2: Apply theories and various concepts to contemporary social issues, as well as formulation and analysis of policy.
- CO3: Develop the skills of analysis and application of the principles to the real world problems.
- CO4: Comprehend important problems and hurdles for development in rural economies.
- CO5: Show the skills to understand and analyze rural issues in the context of LPG.
- CO6: Appreciate the importance of agriculture, artisans and rural entrepreneurs in RD.



**Title of the Paper: BASRDC231 - Rural Development in India**

**Course Outcomes:**

- CO1: Understand basics of rural society and social, educational and cooperative institutions.
- CO2: Apply economic concepts to contemporary social issues, as well as formulation and analysis of policy.
- CO3: Develop the skills of analysis and application of the principles to the real world problems.
- CO4: Comprehend rural educational issues, problems of schedule castes, tribes, women, children and agricultural labor and the measures taken to solve them.

**Title of the Paper: BASRDC281 - Rural Development Programmes in India**

**Course Outcomes:**

- CO1: Understand basics of Panchyatraj and other taluk and district level Institutions as well as NGOs and credit institutions.
- CO2: Apply micro economic theories and concepts to contemporary social issues, as well as formulation and analysis of policy.
- CO3: Develop the skills of analysis and application of the principles to the real world problems.
- CO4: Comprehend Problems of differently abled, alcoholism and the measures taken to solve them.

### **Title of the Paper: BASRDC331 - Methods of Rural Development**

#### **Course Outcomes:**

- CO1: Acknowledge latest concepts of rural development.
- CO2: Apply various techniques that are used in rural development activities.
- CO3: Develop the skills of analysis and application of the principles to the real world problems.
- CO4: Understand evolution of rural development activities and critically examine its achievements.
- CO5: Enable the students to appreciate various development methods of community organization
- CO6: Evaluate the performance of SHGs in rural empowerment.
- CO7: Able to formulate research problem, data collection, and data processing: Classification, coding, tabulation and analysis.

### **Title of the Paper: BASRDC332 - Rural Development Institutions**

#### **Course Outcomes:**

- CO1: Understand important rural development Programmes in India.
- CO2: Apply development theories and concepts to contemporary social issues, as well as formulation and analysis of policy.
- CO3: Develop the skills of analysis and application of the principles to the real world problems.
- CO4: Comprehend the role of ICTs, NABARD and rural entrepreneurship in Rural development.
- CO5: Develop curiosity in the study of other branches of development economics.

### **Title of the Paper: BASRDC381 - Techniques of Rural Community Work**

#### **Course Outcomes:**

- CO1: Understand basics of Financial Inclusion.
- CO2: Develop the skills of analysis and application of the principles to the real world problems.
- CO3: Comprehend important methods of participation of people in development.
- CO4: Develop an effective communication and public speaking skills.
- CO5: Appreciate the utility of various methods of communication in rural development.

### **Title of the Paper: BASRDC382 - Rural Management**

#### **Course Outcomes:**

- CO1: Acquaint the students with the basic principles underlying concepts and techniques of modern management and their application in rural management
- CO2: Understand and acquire skills in diagnosing and solving management problems in development management.
- CO3: Develop the skills of analysis and application of the principles to the real world problems.
- CO4: Develop skills in planning, building and managing organizations in rural areas.
- CO5: Develop consultancy skills in rural management.
- CO6: Enlarge the outlook and vision of participants about the larger background and context of rural management and their practical process.

**A. (2)**

**Faculty of Arts - English (Core Subject)**

**Title of the Paper: BAENC121 - Optional English – Elizabethan Period:  
16<sup>th</sup> Century Literature**

**Course Outcomes:**

- CO1: Show the knowledge of formation of English nation and the Renaissance and Reformation movements in England and English literature.
- CO2: Identify the influence of Greek and Italian culture and Literature on English and Literature.
- CO3: Reflect the primary knowledge of Anglo Saxon period and literature and Chaucerian poetry.
- CO4: Interpret the texts in terms of the development of literature in the Renaissance period.
- CO5: Write and speak on the Shakespearean poetry, plays and the contribution of poets like Spencer, Sidney also on the development of prose literature, especially the genre of Essay in English.

**Title of the Paper: BAENC171 - Optional English – Restoration and  
Augustan Age: 17<sup>th</sup> and 18<sup>th</sup> Century Literature**

**Course Outcomes:**

- CO1: Reflect the understanding of the post – Shakespearean/Renaissance development in English Literature.
- CO2: Show a thorough knowledge of the ideas of ages/periods chronologically.
- CO3: Identify and interpret the new literary genres and their growth.
- CO4: Gain the understanding of the political, religious Movements like Puritanism and its impact while interpreting the texts.
- CO5: Speak about the nature of Restoration/ Commonwealth/Augustan age in English.
- CO6: Use appropriately the literary terms and concepts in the interpretation of the literary period.

**Title of the Paper: Optional English – BAENC221 – Romantic and Victorian Age - The 19th Century English Literature**

**Course Outcomes:**

- CO1: Show familiarity with the political, social and literary background of the 19th Century.
- CO2: Distinguish the Romantic Literature from the previous literatures.
- CO3: Show understanding about the importance of fictional and non-fictional literature of the time.
- CO4: Comprehend and use the concepts of Romantic Imagination and Poetic Diction used by the Romantic writers.
- CO5: Analyze the socio economic and literary aspects of Victorian Literature.

**Title of the Paper: Optional English – BAENC271 – The 20<sup>th</sup> Century English Literature**

**Course Outcomes:**

- CO1: Demonstrate acquaintance with the 20<sup>th</sup> century literature that has an unprecedented influence of social political, economic and scientific development.
- CO2: Express the knowledge in writing as well as speaking about the improvisations made on the existing literary genre during the 20th century in terms of style and theme.
- CO3: Appreciate the modern sensibilities such as modernity represented in various literary texts.
- CO4: Assess the growth of English Literature from the Renaissance to the 20th Century.
- CO5: Distinguish between Literature in English and the British English Literature.

**Title of the Paper: Optional English – BAENC321– Modern Fiction – Paper V**

**Course Outcomes:**

- CO1: Identify the dystopian fiction and interpret the text appropriately.
- CO2: Analyze texts in the post-colonial periods.
- CO3: Use the literary terms and concepts while writing of oral communications.
- CO4: Express better sensibilities in different social situations.

**Title of the Paper: Optional English - BAENC322 – Indian Writing in English-Paper VI**

**Course Outcomes:**

- CO1: Identify the Indian writers, poets, essayists, playwrights from their writings.
- CO2: Trace the history of Indian English Literature, its origin and development.
- CO3: Demonstrate a thorough knowledge of the reformation movement in India and the role played by Rammohan Roy, Derozio, Brahmo Samaj, Rama Krishna Paramahansa, and Vivekananda.
- CO4: Analyze Dattani's play *Final Solutions* in view of conflict of communal issues in the backdrop of India Pakistan partition.
- CO5: Critically interpret Indian Women literature, poems of Kamala Das and the novel *Binding Vineas* also the poems of Nissim Ezekiel, Tagore

**Title of the Paper: Optional English – BAENC371 – The New Literatures - Paper VII**

**Course Outcomes:**

- CO1: Read and interpret independently foreign literatures.
- CO2: Analyze African political system of the time/ post world war condition in Japan in the plays and novels of Africa and other colonized countries.
- CO3: Demonstrate the deep insight into Old and New order which affected Gabriel Okara.
- CO4: Assess and appreciate the poems of Afro American/ Iranian poets.
- CO5: Contextualize the texts in the cultural, literary and historical background/ movements of various countries.

**Title of the Paper: Optional English – BAENC372 – Literary Criticism – Paper VIII**

**Course Outcomes:**

- CO1: Express familiarity to literary criticism.
- CO2: Analyze literary texts from different perspectives.
- CO3: Demonstrate competence in reading literary texts closely.
- CO4: Apply terms, concepts, and literary devices while appreciating texts.

## **Faculty of Arts - English (Language)**

### **Title of the Paper: BA/BSc/BCom/BBA/BCA – ENL131 – Communicative English – I**

#### **Course Outcomes:**

- CO1: Narrate an experience with descriptive detail.
- CO2: Elicit information and show respect for the views of others.
- CO3: Make academic or professional presentations in front of public.
- CO4: Demonstrate the skills of using Dictionaries, references and other materials in public discourses.

### **Title of the Paper: BA/BSc/BCom/BBA/BCA – ENL181– Communicative English – II**

#### **Course Outcomes:**

- CO1: Identify various narrative techniques such as expository, descriptive and narrative literary texts.
- CO2: Use formal, informal, expository, descriptive, narrative, argumentative and persuasive skills.
- CO3: Use skills such as Skimming and scanning in reading comprehension.
- CO4: Review a literary text, a situation, a work and articulate the observation.

### **Title of the Paper: BA/BSc/BCom/BBA/BCA – ENL231 - Communicative English – III**

#### **Course Outcomes:**

- CO1: Critically assess ideas in seen and unseen passages.
- CO2: Interpret details and express ideas coherently.
- CO3: Analyze characteristics of the language like tones, pronunciation etc.
- CO4: Decode divergent attitude of different individuals and analyze texts.



**Title of the Paper: BA/BSc/BCom/BBA/BCA – ENL281 - Communicative English – IV**

**Course Outcomes:**

- CO1: Critically interpret literary texts.
- CO2: Demonstrate the reading skills with improved accent, style of presentation, intonation, and emphasis.
- CO3: Write effectively correspondence letters.

**Faculty of Arts - Additional English  
(For students from other states and countries)**

**Title of the Paper: BA/BSc/BCom/BCA/BBAAEL131 - Additional English Course - I**

**Course Outcomes:**

- CO1: Demonstrate a critical awareness of specific phases of life like love and marriage.
- CO2: Develop reading and comprehension skills.
- CO3: Reflect enhanced writing skills of students by various specific tasks.
- CO4: Show a better cultural and social awareness.

**Title of the Paper: BA/BSc/BCom/BCA/BBAAEL181- Additional English Course - II**

**Course Outcomes:**

- CO1: Demonstrate a critical awareness of education and travel.
- CO2: Develop the reading and comprehending skills.
- CO3: Show higher level of writing skills.
- CO4: Show a better cultural and social awareness.

**Title of the Paper: BA/BSc/BCom/BCA/BBAAEL231 - Additional English  
Course- III**

**Course Outcomes:**

- CO1: Identify new variety of Indian and foreign texts.
- CO2: Show improved reading and comprehension skills.
- CO3: Perform better through the enhanced writing skills.
- CO4: Conduct oneself in a dignified manner because of his/her better cultural and social awareness.

**Title of the Paper: BA/BSc/BCom/BCA/BBAAEL281 - Additional English  
Course - IV**

**Course Outcomes:**

- CO1: Demonstrate a critical understanding of society, science and environment.
- CO2: Apply the ideas appropriately through this enhanced reading and comprehension skills of variety of texts.
- CO3: Show the improved writing skills in writing as well as oral communications.
- CO4: Develop a better cultural and social conditions.

**A. (3)**

**Faculty of Arts - Journalism**

**Title of the Paper: BASJRC131 - Introduction to Mass Communication**

**Course Outcomes:**

- CO1: Create awareness about mass media.
- CO2: Discuss about the working system of media.
- CO3: Show an improved knowledge about significance of communication in various media.
- CO4: Develop an insight into the origin, growth and development of media.

**Title of the Paper: BASJRCE 131: Magazine Journalism**

**Course Outcomes:**

- CO1: Show an improved knowledge on different forms on magazines.
- CO2: Develop an idea on creating various contents for magazines.
- CO3: Exhibit skills of producing magazines.
- CO4: Show an increased knowledge on the prospects, challenges and scope of magazines.

**Title of the Paper: BASJRC181 - Reporting Techniques**

**Course Outcomes:**

- CO1: Show expertise on reporting skills, sensibilities and challenges of reporting.
- CO2: Develop strong mindset among students to face the field challenges.
- CO3: Show the skills in developing well-built network to survive in the profession.
- CO4: Demonstrate ethical and moral aspects in reporting.

**Title of the Paper: BASJRCE 181 Translation Techniques**

**Course Outcomes:**

- CO1: Exhibit knowledge on importance of translation in mass media.
- CO2: Show the skills of translating different stories.
- CO3: Exhibit an increased knowledge on different types of translation.
- CO4: Show an awareness on job opportunities in media.

**Title of the Paper: BASJRC231 - Feature Writing**

**Course Outcomes:**

- CO1: Develop knowledge about various journalistic writing and creative content narration.
- CO2: Be skilled in writing various reviews and criticism.
- CO3: Exhibit the knowledge about finding various story ideas and platforms to publish stories.
- CO4: Assess ethical value and moral aspects in writing.

**Title of the Paper: BASJRCE 231: Entertainment Media**

**Course Outcomes:**

- CO1: Develop analytical skills about components of audio-visual storytelling.
- CO2: Communicate an increased knowledge on writing scripts for fiction and non-fiction productions.
- CO3: Exhibit skills necessary to produce, research and present creative stories.
- CO4: Evaluate various skills in entertainment media.

**Title of the Paper: BASJRC281 - Editing**

**Course Outcomes:**

- CO1: Develop practical knowledge on basics of computer and process of editing.
- CO2: Show the skills in writing attractive and appealing headlines.
- CO3: Develop practical knowledge about various editing skills and caption writing.
- CO4: Demonstrate ideas about role and responsibilities of various gatekeepers in media.

**Title of the Paper: BASJRCE 281: Writing for Media**

**Course Outcomes:**

- CO1: Practice core newsgathering, writing, production, presentation and technical skills to a professional standard across all media platforms.
- CO2: Employ appropriate technical skills and theoretical knowledge to solve problems associated with creative work.
- CO3: Communicate the idea to the readers with professional effective manner.
- CO4: Interpret the subject and to use different narrative styles to present the story with best possible clarity.

**Title of the Paper: BASJRC331 - Advertising**

**Course Outcomes:**

- CO1: Develop an idea on importance of product promotion through advertisement.
- CO2: Show practical knowledge of creating, writing creative ad copy and designing.
- CO3: Exhibit improved knowledge on changing trends in advertising.
- CO4: Exhibit ethical values in creating and publishing advertisement.

**Title of the Paper: BASJRC332 - Corporate Communication**

**Course Outcomes:**

- CO1: Manifest an increased knowledge on importance of public opinion, assessing popular pulse and image building.
- CO2: Exhibit the knowledge about handling crisis situation.
- CO3: Develop an idea about PR as a career option.
- CO4: Show skills on liaising media professionals.

**Title of the Paper: BASJRC381 - Media Management and Press Laws**

**Course Outcomes:**

- CO1: Show an improved managerial skills of media organizations.
- CO2: Be aware of economics and global media scenario.
- CO3: Beware of owning media and practical challenges.
- CO4: Show familiarity with legal and ethical aspects of media.

**Title of the Paper: BASJRC382 - Online Journalism**

**Course Outcomes:**

- CO1: Show an increased knowledge on the basic principles underlying online and web Journalism.
- CO2: Exhibit practical knowledge on creating content and handling new media.
- CO3: Show familiarity with the prominence of news portal and user generated content.
- CO4: Be familiar with of web journalism as a career opportunity.

**A.(4)**

**Faculty of Arts - History**

**Title of The Paper: BAHT101 - India in The Early Historical Period (From earliest period to A.D.300)**

**Course Outcomes:**

- CO1: Understand the historical writing on ancient India, contribution to historical writing began in India, truth established, views and different approaches on writings.
- CO2: Acknowledge the indigenous and foreign source materials available for writing history.
- CO3: Recognize how a man lived in Paleolithic, Mesolithic and Neolithic periods and important sites and tools of these ages in India.
- CO4: Appreciate the salient features of Indus Valley civilization.
- CO5: Evaluate the feature of Buddhism and Jainism.
- CO6: Know about the administration of Mauryas their art and architecture.

**Title of the Paper: BAHTCE131 (Elective-1) - Historical Method**

**Course Outcomes:**

- CO1: Show an understanding of history as an important branch of human knowledge.
- CO2: Exhibit familiarity with the important tools of historical writing.
- CO3: Manifest the ability to understand the key elements of historical study.
- CO4: Be skilled in understanding methods and techniques required for historical research.

**Title of the Paper: BAHT151 - India in the Early Medieval Period (A. D. 300 - 1300)**

**Course Outcomes:**

- CO1: Identify the administration of Guptas and their contribution to Nalanda University.
- CO2: Understand reason for the emergence of feudalism in India.
- CO3: Understand the contributions of the Chalukyas, Rashtrakutas, Pallavas and Cholas to the field of literature, culture, religion, art and architecture.
- CO4: Examine the conquest of Sind and its effects on India.
- CO5: Understand the nature of Invasion of Ghazni and Ghori and their impact in terms of politics, culture and religion.

**Title of the Paper: BAHTCE181(Elective-II) - Debates in Indian History**

**Course Outcomes:**

- CO1: Show an understanding of different theories and debates about the origin of Aryans.
- CO2: Show familiarity with the formation of states in ancient and medieval India.
- CO3: Understand the factor that led to the urbanization and the reasons for the decay.
- CO4: Show an understanding of the historical writing on ancient India, contribution to historical writings, truth, views and approaches on ancient India.

**Title of the Paper: BAHT201 - Medieval India (A.D. 1206-1556)**

**Course Outcomes:**

- CO1: Understand the foundation of the Delhi Sultanate and their administration.
- CO2: Recognize the socio - economic and religious conditions under Vijayanagara.
- CO3: Identify the condition of India under the Mughal Empire.
- CO4: Show an understanding of Bhakthi Movement in India.
- CO5: Analyze the Causes for the decline of the Delhi Sultanate.



**Title of the Paper: BAHTCE231 (Elective-III) - Tourism in India**

**Course Outcomes:**

- CO1: Understand the historical writings in ancient and medieval India.
- CO2: Understand the role and importance of museum in preservation, conservation documentation.
- CO3: Understand the different types of tourism in India.
- CO4: Identify the role of Archaeological survey of India in preservation, conservation and maintenance of heritage sites.

**Title of the Paper: BAHT251 - Early Modern India (A.D. 1556-1856)**

**Course Outcomes:**

- CO1: Understand how Mughals consolidated their relations with Gujarat, Rajaputana, Deccan and Bengal.
- CO2: Evaluate the religious policy of Akbar.
- CO3: Estimate Mughal's contribution to the field of art and architecture.
- CO4: Analyze Mughal nobility- Mansabdari and Jagirdari systems – Army - Revenue system.
- CO5: Understand the advent of Europeans and their administration.
- CO6: Understand the establishment of British paramountcy.
- CO7: Understand the rise of Marathas and contribution of Shivaji to administration.

**Title of the Paper: BAHTOE281 (Open Elective-IV) - Current Issues and Their Historical Perspective**

**Course Outcomes:**

- CO1: Understand the origin and evolution of concept of human rights – Greek Concept, Emanuel Kant- Hobbes, John Locke French Revolution.
- CO2: Understand the refugee problems after the Second World War including recent development in Syria and migration to Europe.
- CO3: Understand the origin of terrorism.
- Co4: Understand the separatist movement in Asia- Kashmir problem in India- Baluchi Nationalism- Kurdish struggle for statehood.

**Title of the Paper: BAHT301 - Colonial and Nationalist India (A.D. 1857–1905)**

**Course Outcomes:**

- CO1: Understand the discontent of Indians which got expressed during the middle of the 19<sup>th</sup> century.
- CO2: Examine how nationalism developed among Indians during the British rule.
- CO3: To study the colonial system that dominated social life of Indians.
- CO4: Understand the evolution of governmental system and control over princely states – police, civil service, judiciary and economic measures- inter-state and foreign policy.
- CO5: Understanding the service of Viceroys to India.

**Title of the Paper: BAHT302 - History of Modern Europe (1789-1990)**

**Course Outcomes:**

- CO1: Realize the causes and results of French Revolution and the achievements of Napoleon Bonaparte.
- CO2: Understand the importance of revolt of 1830 and 1848 in France and the efforts of Bismark for the unification of Germany.
- CO3: Understand the causes and results of the First World War.
- CO4: Examining Nazism and Fascism in Germany and Italy.
- CO5: Understand the causes and results of Second World War and the establishment of UNO.
- CO6: Analyze the genesis of cold war between USA and USSR.
- CO7: Understand the factors leading to the end of cold war.

**Title of the Paper: BAHT351 - Freedom Movement in India and Its Legacy (A.D. 1905 – 2000)**

**Course Outcomes:**

- CO1: Understanding how Nationalism in India led to Independence.
- CO2: Consider the main factors that led to the independence of India from British.
- CO3: Understanding of some outbursts of discontent of Indians during the freedom struggle.
- CO4: Understand the role of moderates and extremist in the freedom movement.
- CO5: Evaluate the integration of Indian states and Sardar Vallabai Patel's effort in this.
- CO6: Ability to understand the internal and external policy of Jawaharlal Nehru, Lal Bahadur Sastri and Indira Gandhi.
- CO7: Understand the internal and external policies of V.P. Singh and Narasimha Rao.
- CO8: Identify the contemporary challenges like terrorism, liberalization, privatization and globalization.

**Title of the Paper: BAHT352 - Modern Karnataka (A.D. 1565-1956)**

**Course Outcomes:**

- CO1: Understand about the Nayakayas of Keladi that emerged as one of the important splinter state during and after fall of Vijayanagara empire in the south western part of Karnataka and their contribution to Karnataka.
- CO2: Understand the most powerful and famous state political structure that came into existence is the Wodeyars of Mysore.
- CO3: Analyze the rise and fall of Hyder Ali and Tipu Sultan and their struggle against British.
- CO4: Understand the echoes of 1857 movements and different stages of freedom struggle in Karnataka.
- CO5: Understand the colonial rule and anti-British struggle in Karnataka.
- CO6: Identify the political division of Karnataka before Independence.
- CO7: Examine the role of Press, writers, organization and political leaders in the Unification of Karnataka.

**A.(5)**

## Faculty of Arts-Kannada

**Title of the Paper:** BAKO101: 0És,ÀUÀÈÀqÀ ,Á»vÀ ZÀjvÉ: ³ÀÄvÀÄÜ ¥ÀoÀÜUÀ%À CzÀÀAIAÄÈÀ PÀÈÀqÀ  
LaipÀ ¥ÀwPÉ-1

¥ÀW PÉA iÄÄ ¥À® ±ÄÄ W:

C01: 0És.ÀUÀÈÀÒÀ Á»VÀ ZÀÍVÉÀÍÀÀ ÀÒÀS¥À, ®PÀt, àÁÀ! Ò àÉsZàVÁZÀ CjªÀÈÀÀÀ "É¼ÈÀÉsÀrgÀÀÀÀZÀÀ

CO2: 0ÉS ÀUÀÈÀÒqÀ PÁªÀª, ÉÁ■ PÀUÀ¼ÀÈÀÀB NzÀªª, «±ÉǺ¶ Àªª, «ªÀª²ð Àªª eÁÔÈÀZÀ UÀ¼PÉ

CO3: 0Es, àUÀÈÀQÀ „Á»vÀš ZàJvÈÀÀÀ eÀÏÈZÈSACUÈ PÀÈÀQÀZÀ9È „ÀZÀĐvÀPÀ ¥AJÁPÈUÀVÀÈÀÀÀ JZÀAJ,ÀS®È  
² ÀUÈÀÀš æÈÀÈUÀšRAPÈSArgÀÀàZÀÀ

CO5: PÆAŋqÀ "ÁµÉAŋAÆAÆA±ÀÀZÀPÆÁV NzÀÀÆÀ, ŠgÉAŋAÆAÆA, „AAÆÀPÆAÆA æŋAŋqÀŠ®: PÆ±A®ÆAÆAÆA  
MqÀÆÀÀšrApÉšArqÀÀÆAŋZÀÀ

**Title of the Paper:** BAKO151:0ES,ÀUÀÈÀÒÀ Á,Á»vÀ ZÀJvÉ: àÀÀvÀÜ ¥ÀÒÀÜÀ¼À CzÀÀÀÀÀÀÀ—PÀÈÀÒÀÀ  
LaìPÀ ¥ÀWPE-2

¥ÀwPÉA:ÄÄ ¥À®±ÄÄw:

C01: 0És,ÀUÀÀÀqÀ,Á»VÀÀ ZÀjVÉÀiÀÀ,ÀgÀs¥À,®PÀ:t,àÁÀ!Û àÉsZÀVÁZÀ CjªÀÈÀÀÀ "É¼ÈÀPÉSArªÀÀÀÀZÀÀ

CO2: 0Es AUAEAgà PÁZAA SjJAÀÀ ZÀ jVÉ: aAAVAAU ¥AoAizÀ PÀÀ jVÀÀ CjaÀÀ "ÉxÉAPésarggAAÀizÀÀ

CO3: 0Es, AUAEAtQa „Á»VáZ jVéAíAä eÁíEázEsAÇUÉ PAÉAtQázA9í „ÁZÁðVáPÁ ¥AjÁPÉUÁVÁEÁAÄ JzÁAj, ÁS<sup>®</sup>  
 2. ÁíEÁÄí aÉÁÉUAsrAPÉsArgÁÄaÁlZÁÄ

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**Title of the Paper: BAKO 201:**  $\mathfrak{a}\ddot{\mathfrak{a}}\mathfrak{z}\mathfrak{a}\mathfrak{p}\mathfrak{a}\mathfrak{9}\mathfrak{a}\mathfrak{e}\mathfrak{a}\mathfrak{p}\mathfrak{a}\mathfrak{e}\mathfrak{a}\mathfrak{q}\mathfrak{a}\mathfrak{,}\mathfrak{a}\mathfrak{a}\mathfrak{v}\mathfrak{a}\mathfrak{z}\mathfrak{a}\mathfrak{j}\mathfrak{v}\mathfrak{e}\mathfrak{:}\mathfrak{a}\mathfrak{a}\mathfrak{v}\mathfrak{a}\mathfrak{a}\mathfrak{u}\mathfrak{a}\mathfrak{a}\mathfrak{c}\mathfrak{z}\mathfrak{a}\mathfrak{a}\mathfrak{i}\mathfrak{a}\mathfrak{a}\mathfrak{e}\mathfrak{a}\mathfrak{p}\mathfrak{a}\mathfrak{e}\mathfrak{a}\mathfrak{q}\mathfrak{a}\mathfrak{L}\mathfrak{a}\mathfrak{i}\mathfrak{p}\mathfrak{a}\mathfrak{y}\mathfrak{a}\mathfrak{w}\mathfrak{p}\mathfrak{e}\mathfrak{-}3$

¥ÀW PÉA ÄÄ ¥À® ±ÄÄW:

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**Title of the Paper:**BAKO251: æÄZÀPÁ9ǺÈ PÆÀqÀ ¥àòâ, dɛÁ≠ZÀ ,Á»vâ, bÀAZ±Á,Ĉ;  
CzÀAĀÈ PÆÀqÀ LaipÀ ¥àwPÉ – 4

¥ÀW PÉA:Ä ¥À® ±ÄÄW:

- CO1: PÀÈÀlqà bÀAzÀÀiÈÀ ZÀjvÉ: 0ÁUÀS ««zÀ ¥ÀPÁgÀUÀÀÄ, CèÀlUÀÀ ®PÀ:tUÀÀ CjèÀl èÀÀsrAPÉsArgàèÀlZÀÄ
- CO2: ÈÀqÀÄUÀÈÀlqà 0ÁUÀS 0ÁUÀÈÀlqà ¥ÀZÀUÀ½UÉ ¥À,ÁÜgà 0ÁPÀèÀl, bÀAzÀ,ÀiÈÀÄÈ PÀAQÀAPÉsÀÀièÀ PÈ±À®èÀÈÀÄÈ  
“É%ÉAPÉsArgàèÀlZÀÄ
- CO3: dÈÀ¥ÀZÀ ,Á»vÀZÀ ,ÀgÀs¥À, ®PÀ:tUÀÀ CjèÀl
- CO4: dÈÀ¥ÀZÀ ,Á»vÀè ¥ÀPÁgÀUÀÀÄ, ««zÀ dÈÀ¥ÀZÀ PÀVÁ ¥ÀPÁgÀUÀÀÄ, dÈÀ¥ÀZÀ gÀUÀ”ÀS«À, dÈÀ¥ÀZÀ  
ZÉÈèÀUÀÀÄ, dÈÀ¥ÀZÀ QÀqÉUÀÀÄ èÉsZÀvÀZÀ «ZÁgÀUÀÀ PÀÀjvÀÄ ,ÀlUÀèÀZÀ CjèÀl 0ÉsACgàèÀlZÀÄ
- CO5: ÈÀqÀÄUÀÈÀlqà ,Á»vÀè, eÀÈÀ¥ÀZÀ ,Á»vÀUÀÀ eÀÈÈÀZÉsACUÉ PÀÈÀlqÀZÀ9è ,ÀZÀÖvÀPÀ ¥ÀjÀPÉUÀÀÈÈÄÄÈ  
JzÀÄj ,ÀS®è ²,ÀUÈÄÄÈ èÉÈUÀsrAPÉsArgàèÀlZÀÄ

**Title of the Paper:**BAKO 301: 0À4ÉUÀÈÀ8qA ,Á»vÀ ZJjv: 3ÀÄvAÄÜ ¥ÀoÀ8UA%À CzÀ8AIAÄÈÀ PÀEÀ8qÀ  
LaîPÀ ¥ÀwPÉ-5

¥ÀW PÉA:Ä ¥À® ±ÄÄW:

- CO1: ¥ÁáÄÈÀ PÀÈÀQÀ ‚Á»vÀš ZÀjvÉAìÄÄ CjªÄÈÄÄš 0ÉsAcgÀÄªÀzÄÄ
- CO2: ±Á‚ÄÈ ‚Á»vÀš CªÄUÀ¼Ä ‚ÄgÀs¥Ä, ®PÀtUÀ¼Ä 0ÁUÀs CªÄUÀ¼Ä Lw0ÁAPÀ ÄÄÄ0ÄvÄÄ-EªÄUÀ¼Ä CjªÄÄÄ ÄÄÄsrAPÉsArgÀÄªÀzÄÄ
- CO3: 0¼ÄUÀÈÄÀQÀ ZÄA¥Äs PÁÄªÄzÄ NzÄÄ, ÄÄšSÁšÈUÀ¼Ä CjªÄÄÄ ÄÄÄsrAPÉsArgÀÄªÀzÄÄ
- CO4: 0¼ÄUÀÈÄÀQÀ UÄZÄzÄ NzÄÄ, ÄÄšSÁšÈUÀ¼Ä CjªÄÄÄ 0ÉsAcgÀÄªÀzÄÄ
- CO5: 0¼ÄUÀÈÄÀQÀ ‚Á»vÀš ZÀjvÉAìÄÄ eÁÈÄzÉsAcUÉ PÀÈÀQÄZÄ9Ä ‚ÄzÄÖvÄPÀ ¥ÄjÁPÉUÀ¼ÄÈÄÄš JzÄÄj‚s®Ä ² ÄÜÈÄÄš ÄÄÄÈUÀsrAPÉsArgÀÄªÀzÄÄ

**Title of the Paper:**BAKO351: PÀÈÀìQÀ ðÁîPàgàt ðÄÄvÀÄÜ ,ÄÄ±ÉsÄzÀÈÜÜ¼À CzÀìÀìÄÈÄ- PÀÈÀìQÀ  
LaîPÀ ¥ìwPÉ-6

¥ÀwPÉA:ÄÄ ¥À®±ÄÄw:

- CO1: PÀÈÀìQÀ ÌÁìPÀgÀt ÆjZÀAìÄÄ ÌÁìÁrPÉSArGÀÄÄìZÀÄ ÌÁÜÀS CzÀÈÄÄß ÈAÇÈÄ ,ÀÄÄìÁÈÄZÀgÌ  
CÀÄÄrAPÉSìÁìS®ì PÈ±À® ÆÀqÉZÀÄPÉSArGÀÄÄìZÀÄ
- CO2: PÀÈÀìQÀ ,ÀÄ±ÉSÄZÀÈÈÄÄÄ ÈwÁÄ, ,ÀgÀSÆÄ, ÆÁPÁgÀUÀÄÄÄ, ««ZÀ ÌÁAvÀUÀÄÄÄ ÌÁÜÀS ,ÀÄ±ÉSÄZÀÈÈ  
SgÀìÁUÀÄÄ ,ÀìμÀìÁZÀ CjÁÈÄÄÄß ÌÉSACçGÀÄÄìZÀÄ
- CO3: ,ÀÄ±ÉSÄZÀÈÄ VÉÄRÈÄUÀÄÄÄÄß SgÈÄÄÄÄÄÄ PÈ±À® ÌÁÈÄÄÄß ``ÉÆAPÉSArGÀÄÄìZÀÄ
- CO4: ÌÁìPÀgÀt, ,ÀÄ±ÉSÄZÀÈÈÜÜÄÄÄ eÁÖÈÄZÉSACÜÉ PÀÈÀìQÀZÀgÌ ,ÀZÁÖvÀßPÀ ÆjÁPÉÜÄÄÄÄÄß jZÀj,ÀS®²,ÀÜÈÄÄß  
ÌÁÈÈÜÜÄÄsRAPÉSArGÀÄÄìZÀÄ



**Faculty of Arts-Kannada:** ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರು: «ಮಾಹಿತಿಶಾಸ್ತ್ರದ ತತ್ವಗಳು»

**Title of the Paper:** BABS KL131: ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರು, ಉಪಶಬ್ದಗಳನ್ನು ಒಳಗೊಂಡ ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರು - ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರು -1

ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರು:

CO1: ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ, ಸೂಕ್ತವಾದ ಪದಗಳನ್ನು ಉಪಯೋಗಿಸುವ

CO2: ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು, ಉಪಶಬ್ದಗಳನ್ನು, ದೇಶೀಯ ಪದಗಳನ್ನು, ಅಕ್ಷರಗಳನ್ನು ಒಳಗೊಂಡ ನಿರ್ದಿಷ್ಟಪಡಿಸುವ, ಸೂಕ್ತವಾದ ಪದಗಳನ್ನು ಉಪಯೋಗಿಸುವ

CO3: ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ, ಸೂಕ್ತವಾದ ಪದಗಳನ್ನು ಉಪಯೋಗಿಸುವ, ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ

CO4: ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ, ಸೂಕ್ತವಾದ ಪದಗಳನ್ನು ಉಪಯೋಗಿಸುವ, ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ

CO5: ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ, ಸೂಕ್ತವಾದ ಪದಗಳನ್ನು ಉಪಯೋಗಿಸುವ, ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ

**Title of the Paper:** BABS KL 181: ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರು, ಉಪಶಬ್ದಗಳನ್ನು ಒಳಗೊಂಡ ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರು - ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರು - 2

ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರು:

CO1: ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ, ಸೂಕ್ತವಾದ ಪದಗಳನ್ನು ಉಪಯೋಗಿಸುವ

CO2: ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು, ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು, ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ

CO3: ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು, ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು, ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ, ಸೂಕ್ತವಾದ ಪದಗಳನ್ನು ಉಪಯೋಗಿಸುವ

CO4: ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ, ಸೂಕ್ತವಾದ ಪದಗಳನ್ನು ಉಪಯೋಗಿಸುವ, ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ

CO5: ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ, ಸೂಕ್ತವಾದ ಪದಗಳನ್ನು ಉಪಯೋಗಿಸುವ, ಪಾಠ್ಯಕ್ರಮದ ಹೆಸರುಗಳನ್ನು ನಿರ್ದಿಷ್ಟಪಡಿಸುವ



**Title of the Paper:**BABSKL 231: PÀÈÀqÀ PÁÀÀ, UÀZÀÀ òÁUÀS PÁZÀÀ§j ,Á»vÀÀUÀÀ CzÀÀÀÀÀÀ  
-PÀÈÀqÀ "ÁµÁ ¥ÀwPÉ- 3

¥ÀwPÉÀÀÀ ¥À®±ÀÀw:

CO1: PÀÈÀqÀ "ÁµÉÀÀÀÀÀ ZÉÉÁV NzÀÀÀ, §gÉÀÀÀÀÀ eÁÉÀÀÀÀÀ òÉsAcgÀÀÀÀÀÀ

CO2: ÈÀqÀÀUÀÈÀqÀ ,Á»vÀÀZÀ ««zÀ ¥ÀPÁgÀUÀÀÁZÀ ZÀÀ¥Às, àZÀÈÀ, ÀÀÀPÀUÀÈÀ, PÁZÀÀ§j, ®9vÀ ¥À§AzÀ,  
ÀÀÀÈsÀZÀÈÉ, ÈÀÀaavÀ àÉszÀvÁZÀÀÀUÀÀÀ CjÀÀ àÀÀsrAPÉsArgÀÀÀÀÀÀ CO3:  
,Á»vÀÀZÀ àÀÀs®PÀ fÀÀÈÀ àÀÈ®UÀÀÀÈÀÀ §zÀÀQÉÀ9È CÀÀÀÀr,ÀPÉsArgÀÀÀÀÀÀ

CO4: ,Á»vÀÀZÀ àÀÈ®UÀÀÀÈÀÀ ÀÀÀPÁ9ÀÈÀ §zÀÀQÉ CÈÀÀ→ÀAPÉsArgÀÀÀÀÀÀ

**Title of the Paper:**BABSKL 281: PÀÈÀqÀ PÁÀÀ, UÀZÀÀ òÁUÀS DvÀÀPÀXÀÈÀUÀÀÀ CzÀÀÀÀÀÀ-PÀÈÀqÀ  
"ÁµÁ ¥ÀwPÉ-4

¥ÀwPÉÀÀÀ ¥À®±ÀÀw:

CO1: PÀÈÀqÀ "ÁµÉÀÀÀÀÀ ZÉÉÁV NzÀÀÀ, §gÉÀÀÀÀÀ eÁÉÀÀÀÀÀ òÉsAcgÀÀÀÀÀÀ

CO2: ÈÀqÀÀUÀÈÀqÀ ,Á»vÀÀZÀ ««zÀ ¥ÀPÁgÀUÀÀÁZÀ µÀÀÀc, QÀvÀðÈÀ, òÉs,ÀUÀÈÀqÀ PÁÀÀ, ¥À§AzÀ  
àÉszÀvÁZÀÀÀUÀÀÀ CjÀÀ àÀÀsrAPÉsArgÀÀÀÀÀÀ

CO3: avÀPÀXÉ, C"ÀÀXÀðÈÀ ¥ÀvÀ §gÉÀÀÀÀÀ PÈ±À® ¥ÀqÉZÀÀPÉsArgÀÀÀÀÀÀ

CO4: ,Á»vÀÀZÀ àÀÈ®UÀÀÀÈÀÀ ÀÀÀPÁ9ÀÈÀ §zÀÀQÉ CÈÀÀ→ÀAPÉsArgÀÀÀÀÀÀ

**Title of the Paper:** BBBKL 131: PÀÈÀqÀ PÁÀÀ, UÀZÀÀ òÁUÀS PÀÈÀqÀUÀÀÀÀ CzÀÀÀÀÀÀ-PÀÈÀqÀ  
"ÁµÁ ¥ÀwPÉ- 1

¥ÀwPÉÀÀÀ ¥À®±ÀÀw:

CO1: PÀÈÀqÀ "ÁµÉÀÀÀÀÀ ZÉÉÁV NzÀÀÀ, §gÉÀÀÀÀÀ eÁÉÀÀÀÀÀ òÉsAcgÀÀÀÀÀÀ

CO2: ÈÀqÀÀUÀÈÀqÀ ,Á»vÀÀZÀ ««zÀ ¥ÀPÁgÀUÀÀÁZÀ µÀÀÀc, òÉs,ÀUÀÈÀqÀ PÁÀÀ, PÀXÉ, ¥À§AzÀ  
àÉszÀvÁZÀÀÀUÀÀÀ CjÀÀ àÀÀsrAPÉsArgÀÀÀÀÀÀ

CO3: àÉÉZÀjPÀ vÉÀREÀ, eÁ»ÀgÀvÀÀ àÉszÀvÁZÀÀÀUÀÀÀÀÀ §gÉÀÀÀÀÀ PÈ±À® ¥ÀqÉZÀÀPÉsArgÀÀÀÀÀÀ

CO4: ,Á»vÀÀZÀ àÀÈ®UÀÀÀÈÀÀ ÀÀÀPÁ9ÀÈÀ §zÀÀQÉ CÈÀÀ→ÀAPÉsArgÀÀÀÀÀÀ

**Title of the Paper:BBBKL 181:** ΠΑΕΑΙqÀ ΠÁαΔ, UÀZΔΔ ΔÁUÀS ΕÁΙΠÀ „Á»vÀΔUÀ%À CzÀΔAΔΔΕΑ –  
ΠΑΕΑΙqÀ “ÁμÁ ¥ÀwPÉ– 2

¥ÀwPÉAΔΔ ¥À®±ΔΔw:

CO1: ΠΑΕΑΙqÀ “ÁμΕAΔΔΕΔΔΔ ZÉEÁIV NzÀΔΔ, \$gÉAΔΔΔΔΔ eÁÍΕΔΔΕΔΔΔ ΔΕSACgÀΔΔΔΔΔ

CO2: ΕΔqÀΔUΔΕΔΙqÀ „Á»vÀΔZÀ ««zÀ ¥ΑΡÁgÀUΔ%ÁZÀ μÀΙΔC, ΔΕSΔUΔΕΔΙqÀ ΠÁαΔ, ΠΔxΕ, ¥À\$AZΔ  
ΔΕszΔΔvÁZΔΔΔUΔ%À CjΔΔΔ ΔΔΔsrAPÉsArgÀΔΔΔΔΔ

CO3: ΕÁΙΠÀ „Á»vÀΔZÀ NzΔΔ, «±ÉΔμΔUΕ ΔΕszΔΔvÁZÀ ΠΕ±Δ® ¥ΔqÉZΔΔPÉsArgÀΔΔΔΔΔ

CO4: „Á»vÀΔZÀ ΔΔΕ®ΔUΔ%ΔΕΔΔΔ ΔΔΔΔPÁ9ΔΕΔ \$ZΔΔQUÉ CΕΔΔ→ΔΔPÉsArgÀΔΔΔΔΔ

**Title of the Paper:BBBKL 231:** ΠΑΕΑΙqÀ ΠÁαΔ, UÀZΔΔ ΔÁUÀS ΠÁZΔΔ\$J „Á»vÀΔUÀ%À CzÀΔAΔΔΕΑ  
–ΠΑΕΑΙqÀ “ÁμÁ ¥ÀwPÉ– 3

¥ÀwPÉAΔΔ ¥À®±ΔΔw:

CO1: ΠΑΕΑΙqÀ “ÁμΕAΔΔΕΔΔΔ ZÉEÁIV NzÀΔΔ, \$gÉAΔΔΔΔΔ eÁÍΕΔΔΕΔΔΔ ΔΕSACgÀΔΔΔΔΔ

CO2: ΕΔqÀΔUΔΕΔΙqÀ „Á»vÀΔZÀ ««zÀ ¥ΑΡÁgÀUΔ%ÁZÀ ZΔΔ¥ΔS, μÀΙΔC, vΔΔΔ¥ΔZΔ, AΔΔPΔUΔΕΔ, ΔΕSΔUΔΕΔΙqÀ ΠÁαΔ,  
ΔΕszΔΔvÁZΔΔΔUΔ%À CjΔΔΔ ΔΔΔsrAPÉs%ΔΔΔΔΔΔΔ

CO3: ¥À\$AZΔ ΔÁUÀS ΠÁZΔΔ\$J „Á»vÀΔZÀ NzΔΔ, «±ÉΔμΔUΕ ΔΕszΔΔvÁZÀ ΠΕ±Δ® ¥ΔqÉZΔΔPÉs%ΔΔΔΔΔΔΔ

CO4: „Á»vÀΔZÀ ΔΔΕ®ΔUΔ%ΔΕΔΔΔ ΔΔΔΔPÁ9ΔΕΔ \$ZΔΔQUÉ CΕΔΔ→ΔΔPÉs%ΔΔΔΔΔΔΔ

**Title of the Paper:BBBKL281:** ΠΑΕΑΙqÀ ΠÁαΔ, ΔÁUÀS DvΔΔPΔxΔΕΔUΔ%À CzÀΔAΔΔΕΑ–ΠΑΕΑΙqÀ “ÁμÁ  
¥ÀwPÉ– 4

¥ÀwPÉAΔΔ ¥À®±ΔΔw:

CO1: ΠΑΕΑΙqÀ “ÁμΕAΔΔΕΔΔΔ ZÉEÁIV NzÀΔΔ, \$gÉAΔΔΔΔΔ eÁÍΕΔΔΕΔΔΔ ΔΕSACgÀΔΔΔΔΔ

CO2: ΕΔqÀΔUΔΕΔΙqÀ „Á»vÀΔZÀ ««zÀ ¥ΑΡÁgÀUΔ%ÁZÀ ZΔΔ¥ΔS, μÀΙΔC, vΔΔΔ¥ΔZΔ, AΔΔPΔUΔΕΔ, ΔΕSΔUΔΕΔΙqÀ ΠÁαΔ,  
ΔΕszΔΔvÁZΔΔΔUΔ%À CjΔΔΔ ΔΔΔsrAPÉs%ΔΔΔΔΔΔΔ

CO3: ¥À\$AZΔ ΔÁUÀS ΠÁZΔΔ\$J „Á»vÀΔZÀ NzΔΔ, «±ÉΔμΔUΕ ΔΕszΔΔvÁZÀ ΠΕ±Δ® ¥ΔqÉZΔΔPÉs%ΔΔΔΔΔΔΔ

CO4: „Á»vÀΔZÀ ΔΔΕ®ΔUΔ%ΔΕΔΔΔ ΔΔΔΔPÁ9ΔΕΔ \$ZΔΔQUÉ CΕΔΔ→ΔΔPÉs%ΔΔΔΔΔΔΔ

**A.(6)**

**Faculty of Arts - Political Science**

**Title of the Paper: BASPSC131 - Political Theory – Concepts and Ideas**

**Course Outcomes:**

- CO1: Think critically about political concepts and systems.
- CO2: Demonstrate competence in the basic methodology of research and analysis in political science.
- CO3: Analyze and formulate effective argumentation about the political world in writing and oral presentation, making use of that competence.
- CO4: Show the knowledge of the key actors, structures, institutions and historical dynamics that constitute the contemporary political order.

**Title of the Paper: BASPSC181 - Western and Indian Political Thinkers**

**Course Outcomes:**

- CO1: Demonstrate the knowledge of key thinkers and concepts.
- CO2: Compare and contrast views of the thinkers on similar concepts.
- CO3: Use terms and concepts to analyze new political situations.
- CO4: Reflect the nature and value of normative thinking.

**Title of the Paper: BASPSC231 – Indian Political System: Issues and Process**

**Course Outcomes:**

- CO1: Critically assess the actions in the political process and determine their motive.
- CO2: Show familiarity with a number of contemporary political issues and understanding of their make-up and importance.
- CO3: Demonstrate the understanding of how different political issues are assessed by different philosophical and ideological traditions.
- CO4: Write effectively and comprehend other's views, formulate and defend their own positions.

### **Title of the Paper: BASPSC281 - Modern Political Systems**

#### **Course Outcomes:**

- CO1: Have an informed sense of the historical dimension of the various political systems, developments, trends, theories and forms of inquiry relevant to the students' interests.
- CO2: Understanding of the political theories, political systems and political ideologies around the world.
- CO3: Understand the foundations of United Kingdom, China and American governments, including the structure of and relationships between the branches of government.
- CO4: Understand the major political decisions, ideologies, political party systems, philosophical undercurrents.

### **Title of the Paper: BASPSC 332 - International Relations Theory and Concepts - Paper V**

#### **Course Outcomes:**

- CO1: Demonstrate knowledge of political systems.
- CO2: Apply theories and concepts to new situations.
- CO3: Demonstrate understanding of basic facts about the world.
- CO4: Demonstrate familiarity with current political debate.
- CO5: Students will gain insights into the intricacies of policy deliberation and negotiation.

### **Title of the Paper: BASPSC331 - Public Administration – Paper VI**

#### **Course Outcomes:**

- CO1: Understand the public administration as a career field in government.
- CO2: Understand the basic principles of politics including governing institution and branches.
- CO3: Demonstrate understanding of various activities of governmental administrators that fall under public administration to include rulemaking and other regulatory activities, policy making and the delivery of services and program.
- CO4: Understand emergence of the modern administrative state as a result of the technological, social, economic and political pressures that have emerged in as the developed complex, interdependent systems.

**Title of the Paper: BASPSC382 - International Institutions – Paper VII**

**Course Outcomes:**

- CO1: Interrelate the leading theories, concepts, approaches in political theories, international relations and comparative politics.
- CO2: Demonstrate a generalized understanding of the dynamic relationship between politics and economics globally.
- CO3: Be aware of what it means to live in a globalized world.
- CO4: Demonstrate the knowledge of the reasons why people behave in diverse political roles and spaces, especially in diplomatic relation.
- Co5: Apply theoretical frameworks to new issues.

**Title of the Paper: BASPSC382 - Management: Theory and Practice – Paper VIII**

**Course Outcomes:**

- CO1: Understand the significance and the role of Management theory and practice.
- CO2: Acknowledge the fundamental concepts, issues, and theories central to Management.
- CO3: Reflect the understanding of governance and administration.
- CO4: Show the knowledge about Financial, Legislative, Executive and Judicial Administration.

## **COMPULSORY PAPER FOR 1<sup>ST</sup> YEAR DEGREE COURSE**

**Title of the Paper: BASCIF131 - Indian Constitution**

### **Course Outcomes:**

- CO1: Be able to critically assess the actions in the political process and determine their motive.
- CO2: Be familiar with a number of contemporary political issues and better understand their make-up and importance.
- CO3: Exhibit understanding of the rules regulations by which they are governed.
- CO4: Show familiarity with the knowledge of Rights and Duties passed in constitutional state.
- CO5: Be able to better comprehend other's views and formulate defense.

## **COMPULSORY PAPER FOR 1<sup>ST</sup> YEAR DEGREE COURSE**

**Title of the Paper: BASHRF181 - Human Rights and Gender Equity**

### **Course Outcomes:**

- CO1: Understand the historical growth of the idea of human rights.
- CO2: Demonstrate an awareness of the international context of human rights.
- CO3: Exhibit the consciousness of position of human rights in India.
- CO4: Understand the importance of the Human Rights Act.
- CO5: Analyze and evaluate concepts and ideas.

**A. (7)**

**Faculty of Arts- Sanskrit**

**Title of the Paper: SL131 - Sanskrit Prose**

**Course Outcomes:**

- CO1: Develop familiarity to study Sanskrit prose literature.
- CO2: Gain knowledge about Indian writer's competency.
- CO3: Understand the cases, conjugation and other grammar aspects.
- CO4: Demonstrate the ability to translate Sanskrit prose in to Kannada/English.

**Title of the Paper: SL181 - Sanskrit Poetry.**

**Course Outcomes:**

- CO1: An increased ability to read and understand Sanskrit poetry texts.
- CO2: An increased knowledge and understanding of Sanskrit grammar.
- CO3: Gain basics of Sanskrit literature.
- CO4: Acquaintance Sanskrit culture and religious background.
- CO5: A basic idea about Sanskrit semantics.

**Title of the Paper: SL231 - Sanskrit Dramatics**

**Course Outcomes:**

- CO1: Understand the history of Sanskrit Dramatics.
- CO2: Familiarize with major Sanskrit dramas and its structure.
- CO3: Enact dramas in classrooms.
- CO4: Understand the Alankaras depicted in Drama and poetry.
- CO5: Appreciate Indian stories.

**Title of the Paper: SL281 - Ancient and Modern Wisdoms in Sanskrit**

**Course Outcomes:**

- CO1: Understand the gist of Indian Philosophy.
- CO2: Show familiarity with varieties of Sanskrit literature and appreciate the same.
- CO3: Demonstrate model code of conduct through various Neeti.
- CO4: Develop the ability to chant in chorus.
- CO5: Gain knowledge about modern Sanskrit literature.

**A.(7)**

**Faculty of Arts - Sanskrit (Core Subject)**

**Title of the Paper: BASO191 - Introduction to Sanskrit Literature – Part I**

**Course Outcomes:**

- CO1: Develop knowledge about Sanskrit Alphabets. (Scientific version).
- CO2: Develop familiarity with Sanskrit *Kosha* (Dictionary)- history and practical.
- CO3: Know about value based stories in Sanskrit.
- CO4: Demonstrate improved skills in Sanskrit Grammar.
- CO5: Get aware of Sanskrit fables or value based works.



**Title of the Paper: BASO291 - Introduction to Sanskrit Literature – Part II**

**Course Outcomes:**

- CO1: Learn basics of grammar in Sanskrit.
- CO2: Gain knowledge about Sanskrit grammar book *Laghu Siddhanta Koumudi*.
- CO3: Know about modern poetry- Dhoortachestitam.
- CO4: Develop conversational skills in Sanskrit.
- CO5: Gain practical knowledge about Sanskrit Verbs system.

**Title of the Paper: BASO391 - Introduction to Sanskrit Literature – Part III**

**Course Outcomes:**

- CO1: Gain basic knowledge about Vedic literature.
- CO2: Learn to translate Sanskrit texts into other languages.
- CO3: Know about Panian Conjugation system.
- CO4: Improve the ability to read and appreciate the Sanskrit Prose literature.
- CO5: Demonstrate practical knowledge in typing Sanskrit.

**Title of the Paper: BASO491 - Introduction to Sanskrit Literature – Part IV**

**Course Outcomes:**

- CO1: Gain knowledge about famous Sanskrit poets and their works.
- CO2: Introduction to Indian Logic system.
- CO3: Learn consonant conjugation in Paninian System.
- CO4: Knowledge of value based Poems.
- CO5: Develop ability to write articles based on Sanskrit *Subhashitas*.

**Title of the Paper: BASO591 - Blooms of Sanskrit Literature**

**Course Outcomes:**

- CO1: Gain knowledge about the rules and approaches of Indian Sanskrit Dramatics.
- CO2: Know about *Champu* variety of literature.
- CO3: Learn *Samasa* according to Sanskrit grammarian.
- CO4: Learn teachings of Sanskrit Metres (Chandas).
- CO5: Gain knowledge about the teachings and preservation of literature in *Indian Palm Leaves*.

**Title of the Paper: BASO592 - Indian Philosophy.**

**Course Outcomes:**

- CO1: Learn teachings of poems based on *Puranas*.
- CO2: Basic understanding of *Ramayana*.
- CO3: Learn Six Limbs of *Darshana* and its teachings.
- CO4: Understand the meetings of Ramakrishna Paramahansa and Vivekananda.
- CO5: Develop the skills in poem appreciation methods.

**Title of the Paper: BASO691 - Drama, Grammar & Aesthetics.**

**Course Outcomes:**

- CO1: Gain knowledge about Cases (vibhakti and Karaka).
- CO2: Understand Bhasa as a poet.
- CO3: Understand and appreciate the history of Indian poetics and aesthetics.
- CO4: Exhibit improved skill in reading and writing rehearsal and voice modulation.
- CO5: Exhibit strengthened self-confidence.

**Title of the Paper: BASO692 - Ancient Vedic Literature.**

**Course Outcomes:**

- CO1: Get introduced to Upanishadic literature with special reference to *Brihadaranyaka*.
- CO2: Get introduced to *Bhagavadgeetha*.
- CO3: Learn basics of Jain Philosophy.
- CO4: Learn about Vedic Hymns with special reference to *Samvanana Hymn*.
- CO5: Gain knowledge about brief survey of Sanskrit literature.

**A. (8)**

**Faculty of Arts- Hindi**

**Title of the Paper:**

**BAHL131/BSCHL131/BCOMHL131/BBAHL131/BCAHL131 -  
Hindi Prose and Essays**

**Course Outcomes:**

- CO1: An increased ability to read and understand Hindi texts.
- CO2: Show awareness about Hindi writers through stories and essays.
- CO3: Understand basic Hindi grammar.
- CO4: Ability to translate sentences into other languages.

**Title of the Paper:**

**BAHL181/BSCHL181/BCOMHL181/BBAHL181/BCAHL181 -  
Hindi Prose and Essays**

**Course Outcomes:**

- CO1: Learn about famous Hindi writers through their writings.
- CO2: Exhibit an increased knowledge of famous Hindi writers through essays.
- CO3: Develop basic grammar skills like Gender, Number, and Noun etc.
- CO4: Ability to translate complex Hindi sentences.

**Title of the Paper:**

**BAHL231/BSCHL231/BCOMHL231/BBAHL231/BCAHL231 -  
Hindi Poetry and Drama**

**Course Outcomes:**

- CO1: Get aware of ancient and modern poets.
- CO2: Acquire knowledge of famous Hindi dramatists.
- CO3: Exhibit improved skills in basic Hindi grammar.
- CO4: Indicate broader understanding of Hindi terminologies.

**Title of the Paper:**

**BAHL281/BSCHL281/BCOMHL281/BBAHL281/BCAHL281 -  
Hindi Poetry and Dramas**

**Course Outcomes:**

- CO1: Acquire advanced knowledge of ancient and modern poets.
- CO2: Heightened the awareness of Historical and Modern Hindi Dramas.
- CO3: Extended understanding of basic Hindi grammar.
- CO4: Be aware of computer terms in Hindi.

**A. (9)**

**Faculty of Arts - Home Science**

**Title of the Paper: BASHSC131 - Introductory Textiles**

**Course Outcomes:**

- CO1: Show smartness in combining textile industry with weaving and tailoring.
- CO2: Demonstrate the skills in conducting embroidery making classes.
- CO3: Show a desire to acquire knowledge in various methods of Yarn Construction, and Fabric Construction.
- CO4: Undertake learning different types of weaving, weaving apparatus and non-woven textiles.

**Title of the Paper: BASHSC181 - Applied Textiles and Fashion Design – Paper II**

**Course Outcomes:**

- CO1: Show a better understanding of the application of art elements and principles of design in clothing.
- CO2: Undertake learning about readymade garments, traditional embroidery and textiles.
- CO3: Work as assistants to engineers in manufacturing, designing.
- CO4: Demonstrate the ability to start their own weaving centres.

**Title of the Paper: BASHSC231 - Principles of Food and Nutrition – Paper III**

**Course Outcomes:**

- CO1: Identify the vital link between Nutrition and Health.
- CO2: Reflect the knowledge on functions, requirements and effects of deficiency of various nutrients.
- CO3: Work as a manager in canteen, service staff, owner of a canteen, restaurant, cabin crew, assistant community health worker, a good care taker of the self, family and others.
- CO4: Demonstrate the ability to provide consultancy services.

**Title of the Paper: BASHSC281 - Nutrition through Life Cycle and Dietetics - Paper IV**

**Course Outcomes:**

- CO1: Become a healthy mother/father, care taker and a good guide in bringing up children in healthy environment.
- CO2: Exhibit the skills to work as diet planners and counselors in hospitals.
- CO3: Take up self-employment in various food production.
- CO4: Work in sales department of food products, as nutrition education program assistant along with extension educator in program implementation.

**Title of the Paper: BASHSC331 - Life Span Development – Paper V**

**Course Outcomes:**

- CO1: Undertake jobs such as supervisor/ teacher at crèche, play school, day-care center etc.
- CO2: Improved confidence to create self-employment opportunities.
- CO3: Demonstrate an understanding of the concepts of growth and child development.

**Title of the Paper: BASHSC332 - Interior Decoration – Paper VI**

**Course Outcomes:**

- CO1: Demonstrate an aesthetic skills in appreciation of art and design.
- CO2: Analyze the importance of basic concepts of design in interior decoration.
- CO3: Undertake self-employment as interior designers, flower decorators or as assistants and also become good home decorators by making different styles of flower arrangements.

**Title of the Paper: BASHSC381 - Human Development and Family Relations-Paper VII**

**Course Outcomes:**

- CO1: Sensitise the public intervention in the field of Human Development.
- CO2: Provide consultancy services.
- CO3: Become marriage and family counselors.
- CO4: Show the ability to manage day-to-day family affairs for a healthy and purposeful life.

**Title of the Paper: BASHSC382 - Family Resource Management – Paper VIII**

**Course Outcomes:**

- CO1: Explore opportunities in the field of hotel industry, human resource development and management.
- CO2: Provide consultancy services in consumer education, investments and budget planning.
- CO3: Become good home makers.
- CO4: Show keen desire to acquire the skill of wise use of resources and home management.



**A. (10)**

**Faculty of Arts- Psychology**

**Title of the Paper: BASPYC131 - Foundations of Behavior - I**

**Course Outcomes:**

CO1 : Show an understanding of the basic principles that govern and direct human behavior.

CO2: Apply the knowledge of various branches of Psychology to overcome the difficulties in day-to-day life.

CO3: Connect anatomical structure with various behaviors and analyze.

CO4: Monitor and control their emotions in critical situations.

**Title of the Paper: BASPYC181 - Foundations of Behavior - II**

**Course Outcomes:**

CO1 : Monitor and control their emotions in critical situations.

CO2: Adopt healthy personality characteristics to lead purposeful life.

CO3 : Undertake services in society where psychological assessment techniques applied.

**Title of the paper: BASPYC231 – Life Span Development - I**

**Course Outcomes:**

CO1 : Assess the symptoms of chromosomal abnormalities and help the patients to get remedial services.

CO2 : Show the knowledge of prenatal period, birth process and environment in their planned and healthy behavior.

CO3 : Study the stages of development that spans the period of infancy through childhood

CO4 : Demonstrate an understanding of study procedures of children's learning abilities.

**Title of the paper: BASPYC281 - Life Span Development - II**

**Course Outcomes:**

- CO1 : To understand the changes in self and the emergence gender identity
- CO2 : Undertake parenthood with the responsibility to stimulate intellectual and physical growth of their children.
- CO3: Educate the individuals on healthy and social norms in interpersonal relations.
- CO4: Diagnose the oldage problems and help them to cope up and solve the problems.

**Title of the paper: BASPYC331 - Social Psychology - V**

**Course Outcomes**

- CO1: Apply the knowledge of social Psychology in dynamic social situations.
- CO2: Articulate the experiences, thoughts, feelings in interpersonal relationships.
- CO3: Demonstrate cordial relations in society and work without prejudice and discrimination.
- CO4 : Know and manage the aggressive and offensive behaviors.

**Title of the paper: BASPYC332 - Abnormal Psychology - VI**

**Course Outcomes:**

- CO1: Identify the Psychological imbalances in the society.
- CO2: Prevent mental illnesses and maintain their Psychological health by understanding the reasons for mental illness.
- CO3: Create awareness about nature, types and causes of mental illness
- CO4: Enhance the knowledge on the clusters of personality disorders and mood disorder.

**Title of the paper: BASPYC381 - Health Psychology - VII**

**Course Outcomes:**

- CO1 : Creates awareness about emerging field of health psychology.
- CO2 : Helps students to adopt health enhancing behaviors.
- CO3 : Makes the student know better about how the psychological functioning creates somatic disorders.
- CO4 : Helps develop effective coping skills towards everyday problems.

**Title of the paper: BASPYC382 - Industrial and Organization Psychology - VIII**

**Course Outcomes:**

- CO1: Apply knowledge of industrial and organizational Psychology in their career as HR Managers, and ensure cordial human relations.
- CO2: Execute various Psychological tests and appraisal methods in corporate sector.
- CO3: Apply terms and concepts concerning motivation and leadership styles.
- CO4: Impart the knowledge of consumer psychology

**A.(11)**

**Faculty of Arts - National Cadet Corps (NCC)**

**Title of the paper: BANCC131 – National Cadet Corps - I**

**Course Outcomes:**

- CO1: Demonstrate knowledge about the National Cadet Corps.
- CO2: Recognize the need and importance of National Integration.
- CO3: Critically analyze the factors of National Power.
- CO4: Demonstrate knowledge about renowned military generals.
- CO5: Become proverbial with the Gallantry Awards.
- CO6: Critically evaluate about the relevant issues related to Current Affairs.

**Title of the paper: BANCC181 – National Cadet Corps – II**

**Course Outcomes:**

- CO1: Demonstrate knowledge about the Indian Army.
- CO2: Coherent with the need & importance of environmental conservation.
- CO3: Demonstrate knowledge about demography of Karnataka & India.
- CO4: Critically analyze the foreign policy of a country.
- CO5: Evaluate the factors determining international relations of a country.
- CO6: Critically appraise the outreach of the social welfare schemes.
- CO7: Display their skills in battle craft

**Title of the paper: BANCC231 – National Cadet Corps - III**

**Course Outcomes:**

- CO1: Demonstrate their knowledge about the Indian Navy.
- CO2: Evaluate the importance of the Fundamental Rights and Fundamental Duties.
- CO3: Express concern about the social evils and edify their environs about the same.
- CO4: Critically evaluate about the relevant issues related to Current Affairs.
- CO5: Carry out drill with arms.
- CO5: Bring into play the training they have had in first aid.

**Title of the paper: BANCC281 – National Cadet Corps -IV**

**Course Outcomes:**

- CO1: Demonstrate knowledge about the Indian Air Force.
- CO2: Classify various kinds of aircrafts with the Indian Air Force.
- CO3: Comprehend the role of the Indian Armed Forces.
- CO4: Demonstrate knowledge about the wars fought by Indian Armed Forces.
- CO5: Demonstrate knowledge about the major military operations conducted by Indian Armed Forces.

**Title of the paper: BANCC331 – National Cadet Corps - V**

**Course Outcomes:**

- CO1: Be well informed about the Central Armed Police Forces.
- CO2: Demonstrate knowledge about Geography of Karnataka.
- CO3: Aware of various career opportunities.
- CO4: Display their skill/expertise in Semaphore.
- CO5: Display their skill/expertise in Map Reading.

**Title of the paper: BANCC381 – National Cadet Corps -VI**

**Course Outcomes:**

- CO1: Aware about the recent developments in the Indian Armed Forces.
- CO2: Demonstrate knowledge about Geography of India.
- CO3: Gain knowledge about the various kinds & sources of energy.
- CO4: Gain knowledge about the dangers associated with adventure activities and also will get educated about the necessary precautions one must follow.
- CO5: Critically evaluate about the relevant issues related to Current Affairs.
- CO6: Demonstrate skill in map reading.

**Title of the paper: BANCC431 – National Cadet Corps -VII**

**Course outcomes:**

- CO1: Beware of various kinds of natural and manmade disasters.
- CO2: Aware of the need, importance and the functions of NDMA.
- CO3: Aware of the principles of firefighting and the various kinds of fire.
- CO4: Critically evaluate about the international treaties.
- CO5: Critically evaluate about the relevant issues related to Current Affairs.

**Title of the paper: BANCC481 – National Cadet Corps -VIII**

**Course outcomes:**

- CO1: Be groomed into future leaders and take up responsibility in their future appointments.
- CO2: Demonstrate knowledge about the various light weaponry in Indian Armed Forces.
- CO3: Critically evaluate about the relevant issues related to Current Affairs.
- CO4: Demonstrate their skill in ship modeling.

**B. (1)**

**Faculty of Science – Physics**

**Title of the paper: BSCPHC131 – Mechanics - I, Waves & Acoustics,  
Thermal Physics and Low Temperature Physics- Paper I**

**Course Outcomes:**

- CO1: An understanding of the difference between scalars and vectors.
- CO2: Understand the working of a rocket/satellites/satellite launching.
- CO3: Learning about conservation laws of energy and linear and angular momentum and apply them to solve problems.
- CO4: Reveal the concepts of rigid body dynamics.
- CO5: Understand origin/propagation and properties of sound and fundamentals of acoustics.
- CO6: Demonstrate the nature of calorimetry by specific heat of solids and law of Thermodynamics and entropy.
- CO7: Have a clear understanding about Reversible and irreversible process and also working of a Carnot engine/production of low temperature.

**Title of the paper: BSCPHC181 – Mechanics - II, Properties of Matter, DC  
and AC Circuits - Paper II**

**Course Outcomes:**

- CO1: Understand the negative result of Michelson Morley experiment, Galilean and Lorentz Transformation.
- CO2: Describe the fundamental ideas of special theory of relativity such as length contraction and time dilation and mass –energy invariance.
- CO3: Exhibit an understanding of the bending behavior of beams and analyze the expression for young's modulus.
- CO4: Understand the concepts of surface tension and viscosity of fluid and their examples in nature.
- CO5: Apply network theorems to analyze a circuit.
- CO6: Have a clear idea behind satellite launching/applications.
- CO7: Apply maximum power transfer theorem to solve problems.
- CO8: Understand growth and decay of charge in CR circuit/current in LR circuit.
- CO9: Show an ability to study ac circuits/resonance circuits.

**Title of the paper: BSCPHC231 - Optics-I, Electromagnetism, Electronic Devices, Power Transmission - Paper III**

**Course Outcomes:**

- CO1: Study the electric field using coulomb's inverse square law in electrostatics.
- CO2: Understand the Faradays laws of electromagnetic induction by Rayleigh's method.
- CO3: Analyze the value of Maxwell equation- boundary conditions.
- CO4: Study the theory and experiment of interference using air wedge, newton's rings and Michelson interferometer.
- CO5: Understand the basic principle of laser and characteristics.
- CO6: Understand the current voltage characteristics of semiconductor devices.
- CO7: Explain the basic concepts of Semiconductor diodes such as junction diode, characteristics, DC load line, Zener diode.
- CO8: Understand working of rectifier circuits such as Full and half wave rectifiers.
- CO9: Understand power generation and different types of transmission.

**Title of the paper: BSCPHC281 – Optics – II, Photonics, Energy Conservation and Quantum Mechanics – I - Paper IV**

**Course Outcomes:**

- CO1: Develop an understanding of the principles of optics and experimental past of diffraction by Fresnel's and Fraunhofer methods.
- CO2: Study the theories for production of polarized light.
- CO3: Understand the application part of optical fiber into communications systems.
- CO4: Learn the techniques of energy conservation and production of energy by non-conventional methods.
- CO5: Understand the concepts of quantum mechanics/matter waves.
- CO6: Gain a clear knowledge about wave properties of particles, De Broglie waves and its implications on the uncertainty principle.
- CO7: Study the concept of uncertainty principle.
- CO8: Ability to use thermal and statistical principle in a wide range of applications.
- CO9: Become familiar with Blackbody radiation, quantum theory of radiation.



**Title of the paper: BSCPHC331 - Atomic Physics, Quantum Mechanics – II, Condensed Matter Physics I - Paper V**

**Course Outcomes:**

- CO1: Demonstrate the knowledge of superconductivity, its underlying principles and its applications in modern world.
- CO2: Familiarity with Atomic & Molecular spectroscopy and have gained basic ideas regarding Stern Gerlach experiment. Zeeman effect etc.
- CO3: Demonstrate Schrodinger's wave equations.
- CO4: Show an understanding of the concepts of Eigen values Eigen functions and linear operators.
- CO5: Understand the concepts of specific heat, Einstein's theory.
- CO6: Exhibit the knowledge of free electron theory of metals.
- CO7: Exhibit the learning of technique of determination of  $e/m$  by Thomson's method.

**Title of the paper: BSCPHC332 - Nuclear Physics-1, Condensed Matter Physics-II, Analog Electronics - Paper VI**

**Course Outcomes:**

- CO1: Exhibit clarity about nuclear composition and various nuclear models.
- CO2: Show a deep knowledge about Radio activity.
- CO3: Clear knowledge about nuclear models
- CO4: Analyze the characteristics of transistor and transistor biasing circuits.
- CO5: Demonstrate the ability to design CE amplifier and its working.
- CO6: Understand the working and applications of Op Amps and different types of regulated power supplies.
- CO7: Show an understanding of Band theory of solids to distinguish different types of solids.
- CO8: Knowledge about smart materials and nano-materials and their applications.
- CO9: Understand the production/properties and application of X- rays.

**Title of the paper: BSCPHC381 - Molecular Physics, Astrophysics and  
General Theory of Relativity and Digital Electronics - Paper VII**

**Course Outcomes:**

- CO1: Be familiar with peripheral ideas about astronomy and astrophysics.
- CO2: Show an understanding of general theory of relativity.
- CO3: Be familiar with molecular spectroscopy and have gained basic ideas regarding microwavespectroscopy, infrared spectroscopy and Raman Spectroscopy.
- CO4: Be familiar with NMR, ESR/TEM etc. and understand the uses in physics in medical field.
- CO5: List and explain the different number system.
- CO6: Show an understanding of different logic gates using truth table.
- CO7: Analyze and design different adder circuits.
- CO8: Analyze, design and implement combinational logic circuits.
- CO9: Analyze, design and implement sequential logic circuits.

**Title of the paper: BSCPHC382 - Nuclear Physics – II and III,  
Environmental Physics and Communication Electronics - Paper  
VIII**

**Course Outcomes:**

- CO1: Understand the working of nuclear detectors, counters and realize the importance of cosmic rays and its effects on earth and fundamental particles.
- CO2: Become familiar with nuclear particles and different particle accelerators.
- CO3: Have a deep knowledge about nuclear fission and nuclear fusion, and the relevance of nuclear transformation.
- CO4: Understand the origin of atmosphere/greenhouse effect /ozone layer.
- CO5: Sketch and explain the basic block of communication system.
- CO6: Understanding the principles of modulation and explain the different modulation techniques.
- CO7: Knowledge about the theory and operation of radio systems and super heterodyne receivers.
- CO8: Show the skills of using different modulation and demodulation techniques used in analog communication.
- CO9: Show an understanding of GSM, CDMA concepts, architecture, frame structure, system capacity and services.

**B. (2)**

**Faculty of Science - Chemistry**

**Title of the paper: CHC131 - Chemistry Paper I**

**Course Outcomes:**

- CO1: Understand the basics of analytical methods and chromatographic techniques.
- CO2: Describe quantitatively the molecular structure of solids relating their properties to the forces and distances.
- CO3: Understand the concept of rate of change associated with a given chemical reaction and its measurement.
- CO4: Explain the basics of nature of bonding in organic molecules and criteria for Aromaticity.
- CO5: Describe the fundamental techniques for predicting the mechanism of organic reactions.
- CO6: Understand and practice safe handling of chemicals and environmental issues.
- CO7: Carryout the experiments, record data and analyze the results.

**Title of the paper: CHC181 - Chemistry Paper II**

**Course Outcomes:**

- CO1: Explain the types as well as physical and chemical properties of solvents.
- CO2: Understand the general characteristics and properties of s and p block elements.
- CO3: Describe different types of molecular velocities and conditions for liquefaction of gases.
- CO4: Differentiate between structures of solids, liquids and gases, and determination of physical properties of liquids and compounds.
- CO5: Describe the nature of organic reagents and their synthetic utility in organic reactions.
- CO6: Understand the basic concepts of electrophilic addition to carbon multiple bonds.
- CO7: Show an increased knowledge about the fundamentals of industrial chemistry.
- CO8: Exhibit analytical skills involved in volumetric analysis.

### **Title of the paper: CHC231 - Chemistry Paper III**

#### **Course Outcomes:**

- CO1: Distinction between d and f block elements by studying their general properties.
- CO2: Understand the concept of lanthanides, actinides and biological role of alkali and alkaline earth metals.
- CO3: Understand the principles of thermodynamics and its applications to physical and chemical systems.
- CO4: Describe the chemistry of phenols, ethers, epoxides and structure and reactivity of carbonyl compounds.
- CO5: Show an increased knowledge and skills in the preparation of Nano materials.
- CO6: Describe principles involved in the manufacturing of alloys and their applications
- CO7: Analyze the radicals present in inorganic salt mixtures.

### **Title of the paper: CHC281 - Chemistry Paper IV**

#### **Course Outcomes:**

- CO1: Describe the concept of nomenclature, EAN rule, isomerism and theory of coordination compounds.
- CO2: Explain the relationship between colligative properties and molecular weight of solutes.
- CO3: Understand the relationship between physical properties and molecular structure.
- CO4: Understand the basic terminology of phase equilibrium and chemical equilibrium.
- CO5: Explain the synthesis and reactivity of active methylene compounds and stereochemistry of elimination reactions.
- CO6: Show the skills of predicting the mechanism of aromatic nucleophilic and electrophilic substitution reactions.
- CO7: Practice the skills of determination of physical properties of organic compounds.

**Title of the paper: CHC331 - Chemistry Paper V**

**Course Outcomes:**

- CO1: Understand the basic principles of rotational spectroscopy and its applications.
- CO2: Apply spectral data in the determination of structure of organic compounds.
- CO3: Describe the determination of emf of different types of electrochemical cells and its Applications.
- CO4: Provide the knowledge of magnetic properties, electronic spectra, thermodynamic and kinetic aspects of metal complexes.
- CO5: Describe the fundamentals of stereo chemical aspects of organic compounds.
- CO6: Apply and practice skills of gravimetric estimations.

**Title of the paper: CHC332 - Chemistry Paper VI**

**Course Outcomes:**

- CO1: Understand the theories of Raman Effect and vibrational Raman spectra.
- CO2: Explain quantum theory, quantum numbers and postulates of quantum mechanics.
- CO3: Describe principle, instrumentation and applications of flame photometry and the rmoanalytical methods.
- CO4: Exhibit an improved knowledge on electronic spectra of transition metal complexes.
- CO5: Explain basic aspects of preparation and properties of heterocyclic and organ metallic compounds.
- CO6: Understand the importance of essential and trace elements in biological processes.

**Title of the paper: CHC381 - Chemistry paper VII**

**Course Outcomes:**

- CO1: Describe the types of polymers, polymerization techniques and applications of organic and inorganic polymers.
- CO2: Understand the basic concepts of photochemistry and photochemical reactions.
- CO3: Understand the mechanism of radiochemical reactions and extent of radiolysis.
- CO4: Predict the mechanism of inter conversion, ascending and descending of carbohydrates.
- CO5: Explain the biological importance and functions of amino acids, peptides and proteins,
- CO6: Describe the structural aspects and chemical properties of carboxylic acids and their derivatives.
- CO7: Conduct independent experiments using modern instruments.

**Title of the paper: CHC382 - Chemistry Paper VIII**

**Course Outcomes:**

- CO1: Explain the theory and instrumentation of colorimetry and spectrophotometry.
- CO2: Describe the principle and applications of different spectroscopic techniques.
- CO3: Show an understanding of the principles of green chemistry and its applications.
- CO4: Exhibit an understanding of the techniques of isolation and structural elucidation of terpenoids.
- CO5: Explain the fundamentals of synthesis of drugs and synthetic dyes.

**B. (3)**

**Faculty of Science – Botany**

**Title of the Paper: BSCBOC131 - Microbiology and Phycology -Theory**

**Course Outcomes:**

- CO1: Understanding the diversity & distribution of microbes.
- CO2: Appreciation of the ultra-structure, reproductive features and mode of transmission of viruses & bacteria.
- CO3: Analysis of the plant diseases caused by microbes.
- CO4: Understanding the diversity, distribution, thallus organization, reproduction and economic significance of Blue greens & algal representatives.
- CO5: Articulation of the economic importance of lower cryptogams.

**Title of the Paper: BSCBOC181 - Mycology, Lichens, Plant Pathology and Bryophytes Theory**

**Course Outcomes:**

- CO1: Understanding the diversity & distribution of fungi.
- CO2: Understanding the diversity, distribution, classification, morphology, reproduction and life cycle of Bryophytes.
- CO3: Exhibit the learning of the causative agent, etiology, epidemiology, management of selected plant diseases.
- CO4: Compare diversity, distribution, thallus organization reproduction and economic significance of lichens.

**Title of the Paper: BSCBOC231 - Pteridophytes, Gymnosperms and Angiosperm Embryology - Theory**

**Course Outcomes:**

- CO1: Show an understanding of the diversity & distribution of cryptogams.
- CO2: Exhibit an understanding of the distribution, morphology, reproduction, life cycle and economic significance of Pteridophytes and Gymnosperms.
- CO3: Demonstrate learning of the stages of formation and development of plant embryo.

**Title of the Paper: BSCBOC281 - Taxonomy and Economic Botany - Theory**

**Course Outcomes:**

- CO1: Show an understanding the morphology of angiosperms with a special reference to flower and its various parts in detail.
- CO2: Exhibit the learning of the Identification, Nomenclature & classification of Plants.
- CO3: Evaluate the Family level organization, with the help of APG system of classification.
- CO4: Show an understanding of the distribution, cultivation pattern, extraction and economical importance of various Plants & Plant products.

**Title of the Paper: BSCBOC331 - Plant Physiology –I and Ecology-I**

**Course Outcomes:**

- CO1: Exhibit the learning of the basic functioning pattern of plant system.
- CO2: Evaluate the role of Biological molecules in various metabolic activities.
- CO3: Exhibit the learning the structure, functioning pattern and operative systems of Ecosystem.

**Title of the Paper: BSCBOC332: Cell Biology, Molecular Biology and Genetics - Theory**

**Course Outcomes:**

- CO1: Understanding the concept of cell structure with respect to biological molecules, organelles & membranes.
- CO2: Evaluate the structure and role of genes in the pattern of inheritance.
- CO3: Exhibit the learning of the concept of inheritance & variations.



**Title of the Paper: BSCBOC381 - Plant Physiology – II and Ecology – II**

**Course Outcomes:**

- CO1: Show an understanding of the concept & mechanism of vital processes like Photosynthesis, Translocation, Respiration & growth.
- CO2: Exhibit an understanding of the plant adaptations to various ecological conditions & types of vegetation.
- CO3: Exhibit an improved knowledge of the environmental pollution and its consequences.
- CO4: Evaluate of the biodiversity and its conservation.

**Title of the Paper: BSCBOC382 - Anatomy, Plant Propagation and Applied Botany - Theory**

**Course Outcomes:**

- CO1: Analyze the internal Structures of Plant organs.
- CO2: Learning the basic concept of Microbiology.
- CO3: Show an understanding of the principles of Plant biotechnology.
- CO4: Exhibit the skills in application of the tools & techniques in Plant propagation.

**B. (4)**

**Faculty of Science - Mathematics**

**Title of the Paper: BSCMTC131 - Calculus and Analytical Geometry**

**Course Outcomes:**

- CO1: Show an improved familiarity with the maximum and minimum of the value of function using first and second derivative test.
- CO2: Exhibit an improved knowledge about second derivative test to find concavity and convexity, point of inflexion.
- CO3: Exhibit the skills in drawing asymptotes for the graphs of functions.
- CO4: Be familiar with reduction formula of different functions like exponential, logarithms, trigonometric functions of order.
- CO5: Exhibit the skills in the functions of several variables, limits, continuity, partial derivatives of higher orders, directional derivatives, tangent planes and Extreme values of the functions of more than two variables, Its applications in Physical science.

**Title of the Paper: BSCMTC181 - Number Theory and Calculus**

**Course Outcomes:**

- CO1: Exhibit the ability in the definition of divisibility, g.c.d of any two numbers and show familiarity with application of Euclidean Algorithm to find g.c.d
- CO2: Knowledge to prove Euler's and Fermat's theorem in number theory and be familiar with diophantine equation to solve linear equations.
- CO3: Show an improved knowledge of L'Hospital rule to solve indeterminate forms.
- CO4: Gain knowledge in Taylor's, Maclaurin's expansion of various elementary functions.
- CO5: Show improved skills to evaluate double and triple integrals of the functions.

### **Title of the Paper: BSCMTC231 - Sequences, Series and Differential Equations**

#### **Course Outcomes:**

- CO1: Show an improved knowledge of identifying different types of sequences and find the limits of sequences.
- CO2: Exhibit the skills to test the convergence and divergence of the series.
- CO3: Show an improved ability to solve differential equations by using different methods.
- CO4: Be familiar with application of differential equations to solve the problems of Physics, Chemistry and Biological related topics.
- CO5: Exhibit an ability to find the complete solution of a non-homogeneous differential equation as a linear combination of the complementary function and a particular solution and solving nonlinear equations by using various methods.

### **Title of the Paper: BSCMTC281 - Algebra and Complex Analysis**

#### **Course Outcomes:**

- CO1: Show the ability to determine whether a given set forms a Groups or not by verifying the binary operation laws and know about subgroups, cyclic groups, cosets of groups and Lagrange's theorem.
- CO2: Determine whether two groups are homomorphic, Isomorphic and understand how to form quotient groups, permutation groups, and its various properties.
- CO3: Be aware of definitions of complex numbers, algebraic properties, limits, continuity and differentiability of the complex numbers.
- CO4: Show improved skills in Cauchy Reimann equations to find derivatives.
- CO5: Exhibit knowledge about harmonic properties, and some elementary functions of complex numbers.

### **Title of the Paper: BSCMTC331 - Algebra and Laplace Transforms**

#### **Course Outcomes:**

- CO1: Determine whether a given set and binary operations form an algebraic structure Ring or not and know about Integral domain. Fields and its properties.
- CO2: Verify whether a given set forms a vector space, subspace, Describe why it is useful to have a basis for a vector space, characterize set of vectors and linear system using the concepts of linear independence or not.
- CO3: Identify Dimension of vector space, orthogonalisation of vector space and Innerproduct space and its properties.
- CO4: Be familiar with definition of Laplace transformations, transformations of Elementary functions, periodic functions and inverse Laplace transformation.
- CO5: Exhibit skills to solve system of D.E by using Laplace transform and its application to solve Physics and Chemistry related problems.

### **Title of the Paper: BSCMTC332 (a) - Graph Theory (Special Course)**

#### **Course Outcomes:**

- CO1: Explain basic concepts of graph theory, apply the basic concepts of mathematical logic, describe and solve some real time problems by using concepts of graph theory.
- CO2: Apply graph theory based tools to solving real life problems by using Eulerian graph, and Hamiltonian graphs.
- CO3: Ability to exhibit different types of matrix representations of graphs and to solve coloring problems.
- CO4: Show the knowledge of trees, characteristics and center of a tree.
- CO5: Exhibit improved skills in the proof writing and logical thinking.

**Title of the Paper: BSCMTC332(b) - Discrete Mathematics (Special Course)**

**Course Outcomes:**

- CO1: Basic terminology of graphs, digraphs, planar graph, eulerian graphs, Hamiltonian graphs, and many real life problems can be solved by using these theories.
- CO2: Improved skills to find shortest path, Eulerian path, Hamiltonian path and circuits.
- CO3: Show skills in understanding trees, spanning trees and cut sets.
- CO4: Exhibit skills in testing minimum spanning trees by using Kruskal's algorithm, Prim's algorithm, shortest path algorithms.
- CO5: Demonstrate skills in discrete numeric functions and generating functions by using various algorithms.

**Title of the Paper: BSCMTC381: Numerical Analysis**

**Course Outcomes:**

- CO1: Be familiar with definition of Errors and different forms of Errors in the computations and exhibit the skills to solve algebraic equation, transcendental equations by using various methods.
- CO2: Show the ability to solve linear homogeneous equations by direct and iterative methods.
- CO3: Be familiar with interpolation method to find forward and backward differences by using Newton's method.
- CO4: Exhibit the skills of numerical differentiation and Numerical Integration by various methods.
- CO5: Ability to solve numerically O.D.E by various methods.

**Title of the Paper: BSCMTC382:LinearAlgebra VIII A**

**Course Outcomes:**

- CO1: Show familiarity with linear transformations of vector spaces, quotient spaces, dimensions of quotient spaces.
- CO2: Exhibit knowledge about various definitions of idempotent, nilpotent, diagonal, triangular matrices.
- CO3: Show improved skills in Matrix of linear transformations, isomorphism between vector space and matrices, rank of a matrix.
- CO4: Show knowledge of elementary operations of matrices, Row reduced echelon form of a matrix and finding the inverse of the matrices and skills in solving homogeneous and non-homogeneous system of linear equations.
- CO5: Exhibit familiarity with Cayley Hamilton theorem and its applications.

**Title of the Paper: BSCMTC382 - Linear Programming Problems – VIII B**

**Course Outcomes:**

- CO1: Be familiar with graphical methods, simplex methods to solve LPP.
- CO2: Exhibit an improved skills in solving canonical, non-canonical forms of LPP and dual form of LPP.
- CO3: Be familiar with applications of LPP in daily life problems by using game theory model, transportation model using various methods.
- CO4: Show the ability in solving network flow problems by using shortest path algorithm, Max-Flow mini cut theorems.
- CO5: Solve real life problems by using LPP models.

**Title of the Paper: BSCMTC382 – Partial Differential Equations - Paper  
VIII C**

**Course Outcomes:**

- CO1: Show the ability to solve total differential equations by using various methods.
- CO2: Exhibit the knowledge of solving partial differential equations of first order and classification integrals.
- CO3: Solve PDE by using Lagrange's method, Charpit's method and special type of first order equations.
- CO4: Solve higher order PDE by using various methods.
- CO5: Classify and know how to solve second order PDE, linear partial differential equations with constant Coefficients.

**B. (5)**

**Faculty of Science – Statistics**

**Title of the Paper: BSCSTC131: Descriptive Statistics**

**Course Outcomes:**

- CO1: Identify types of data identification and preparation of datasets.
- CO2: Know the various graphical presentation of data.
- CO3: Understand the various types of averages used for different types of data.
- CO4: Develop skills to measure the degree of skewness and kurtosis.

**Title of the Paper: BSCSTC181: Probability Theory**

**Course Outcomes:**

- CO1: Show an understanding of the concept of probability and its applications.
- CO2: Exhibit familiarity with the concept of random variables, pmf, pdf, mgf, cgf etc.
- CO3: Show an understanding of the standard discrete probability distributions and their relationship, applications.

**Title of the Paper: BSCSTC231: Sampling Theory**

**Course Outcomes:**

- CO1: Distinguish between census and sample survey.
- CO2: Show familiarity with SRSWR, SRSWOR, Stratified sampling Systematic sampling and Cluster Sampling Techniques.
- CO3: Be familiar with finding mean, variance of sampled distributions and estimation by various sampling techniques.
- CO4: Develop an ability to understand the relationship between distributions using Jacobian of transformation technique.
- CO5: Show familiarity with applications of WLLN and CLT.



**Title of the Paper: BSCSTC281 – Statistical Inference – I**

**Course Outcomes:**

- CO1: Show familiarity with the problem of estimation and ability to distinguish between the point and interval estimation.
- CO2: Develop an ability to understand the basic concepts of hypothesis testing and computation of size and power of the test.
- CO3: Show an ability to select the type of test to be used for the problem of concern in large samples.
- CO4: Be able to use likelihood ratio tests, chi-square tests.

**Title of the Paper: BSCSTC331 – Regression Analysis - Paper V**

**Course Outcomes:**

- CO1: Show an increased ability to understand scaling techniques.
- CO2: Show familiarity with the concept of correlation, measurement and testing of correlation.
- CO3: Be able to understand the concept of regression, testing significance of regression coefficients.
- CO4: Show ability to compute multiple regression equations, partial and multiple correlation coefficients.
- CO5: Show an ability to fit second degree and exponential curves using least square method.
- CO6: Be familiar with multivariate data analysis.

**Title of the Paper: BSCSTC332 – Operations Research - Paper VI**

**Course Outcomes:**

- CO1: Show an ability to construct LPP and solving through graphical, simplex method, big M method and two phase method.
- CO2: Be able to understand the concept of Transportation problem and Assignment problems.
- CO3: Show familiarity with Deterministic and problematic inventory models.
- CO4: Be able to use different EOQ models.
- CO5: Show an increased knowledge to find the individual and group replacement policies.

**Title of the Paper: BSCSTC381 – Statistical Inference II & Design and Analysis of Experiments - Paper VII**

**Course Outcomes:**

- CO1: Be able to use chi-square tests nonparametric tests for various situations.
- CO2: Be familiar with the concept of sequential testing and to test  $H_0$  against  $H_1$  using SPRT.
- CO3: Exhibit the ability to test the homogeneity of several means, treatment effects and effect of varieties.
- CO4: Show an increased knowledge on basics & principles of design of experiment.
- CO5: Be able to prepare the lay out and carry out the analysis of CRD, RBD and LSD.
- CO6: Show an ability to carry out the analysis and compute main and interaction effects in  $2^2$  and  $2^3$  factorial experiments.

**Title of the Paper: BSCSTC382– Applied statistics - Paper VIII**

**Course Outcomes:**

- CO1: Be able to construct control charts for variables and attributes.
- CO2: Be able to understand acceptance sampling plan.
- CO3: Show familiarity with the concept of Index numbers, methods of computation of Index numbers.
- CO4: Be able to compute measures of fertility and mortality.
- CO5: Be familiar with the methods of measuring trend and seasonal variations.

**B.(6)**

**Faculty of Science – Biotechnology**

**Title of the paper: BSCBT131 - Biochemistry and Biophysics**

**Course Outcomes:**

- CO1: Understand chemical reactions and structures of biological molecules essential for life.
- CO2: Demonstrate the theoretical knowledge and practical application of UV/VIS, IR, and NMR spectroscopy, Colorimetry, nucleic acid purification, electrophoresis, SDS-PAGE protein electrophoresis, Western blotting, protein purification, Centrifugation.
- CO3: Exhibit skills in applying Beer Lambert's Law.
- CO4: Conversant about classification of Biomolecules.

**Title of the paper: BSCBT181 - Cell Biology and Genetics**

**Course Outcomes:**

- CO1: Trace and relate the evolution of cells.
- CO2: Show the conversant ability on different organelles present within the cell that has an evolutionary significance with respect to the changing environment, adaptations, improvisation of survival skills and the changing surroundings based on their activities.
- CO3: Show an ability in understanding cell signaling, cell interactions.

**Title of the paper: BSCBT231 - Microbiology and Immunology**

**Course Outcomes:**

- CO1: Describe the microbial world, its beginning with basics of evolution of microorganisms on early earth life & its gradual transformation to most resistant forms.
- CO2 : Exhibit skills in taxonomic grouping of microorganisms through conventional & molecular approach.
- CO3 : Develop the thorough knowledge, fundamental skills & understanding of the core concepts in microbial nutrition; respiration, factors affecting growth, measurement of growth; Co-existence of micro-organisms as microbial association; structure & life cycle of virus on the basis of viral genomes as dsDNA, ssDNA, ssRNA, dsRNA with few predominant viral form carrying replication in different host such as bacteria, animal, plant.
- CO5: Analyze the dark side of microbial world that is microbe & host interaction leading to disease is explained with respect to few plant pathogens, animal pathogens etc, Pathogenesis caused by invading bacteria and few secreted microbial products such as toxin resulting in food poisoning and also the role played by micro-organisms in food spoilage, prerequisites contributing to food spoilage.
- CO6 : Suggest remedial measures of preservation of food through various methods.

**Title of the paper: BSCBT281 - Molecular Biology and Recombinant DNA Technology**

**Course Outcomes:**

- CO1: Explain the inheritance patterns of characters from one generation to another.
- CO2: Show the expertise in Chromosomal mapping or gene mapping.
- CO3: Analyze how modifications of chromosomes and genes causes diseases in humans.
- CO4: Show familiarity with the changes in a gene that could happen suddenly in an organism.

**Title of the paper: BSCBT331 – Medicinal Plant Diversity and Bioethics**

**Course Outcomes:**

- CO1: Show an understanding of the distribution of medicinal plants at global national and local levels.
- CO2: Analyze the role of medicinal plants in different medicinal systems.
- CO3: Be able to understand the basic problems, methods, and approaches to the field of bioethics.
- CO4: Recognise and interpret the theological presuppositions of bioethical questions and appreciate the contribution of religious traditions to the field of bioethics.
- CO5: Understand the legal and public policy implications of bioethics and become able to understand the interplay of morality and law both at a general level and in relation to specific bioethical issues.
- CO6: Show familiarity with the knowledge on patent and copyright for innovative works.

**Title of the paper: BSCBT332-Plant Biotechnology and Environmental Biotechnology (VI)**

**Course Outcomes:**

- CO1: Compare the age old and conventional methods of plant breeding which are quiet unsuccessful for feeding the ever-growing populations with the modern technologies for plant improvisation.
- CO2: Apply the nature's rule in plant development in creating micro propagation from different plant parts.
- CO3: Evolve methods for ecological conservation - artificial means, modification of plants.
- CO4: Show familiarity with the knowledge on phytoremediation and bio extraction.

**Title of the paper: BSCBT381 – Animal Biotechnology and Bio Informatics (VII)**

**Course Outcomes:**

- CO1: Show a thorough knowledge of the basics of initiating cell culture by tissue disaggregation and the development of primary culture, characterizing primary cell lines, & basic equipment's, media, physical factors, asepsis design of lab.
- CO2: Reflect the awareness of large scale culture of cell in Bioreactor for monolayer & suspension culture is studied.
- CO3: Apply cell cultures in different fields like in vitro fertilization.
- CO4: Use various transgenic approaches used to improve animal as bioreactor
- CO5: Produce commercially important proteins from animal cell and use gene therapy and mechanism of gene therapy.
- CO6: Skillful in using various bio informatics tools to access biological database.

**Title of the paper: BSCBT383 – Phytochemistry and Drug Development (VIII)**

**Course Outcomes:**

- CO1: Demonstrate the knowledge of the working principle, instrumentation, and applications of an age old technique, chromatography and also show how this traditional method has been modernised into the present day HPLC, UPLC etc.
- CO2: Analyze the working principle, instrumentation and applications of techniques of, spectroscopy.
- CO3: Apply the principles and methodology of different centrifugation techniques.
- CO4: Show the familiarity of the usage of radio isotopes that has marveled modern biology, environment, medicine as well as in routine biological assays.
- CO5: Employ spectroscopy for the identification of unknown compounds in the biological samples.
- CO6: Be familiar with the phases in clinical trials involved in drug development.

**C. (1)**

**Faculty of Commerce**

**Title of the paper: BCMCMC131 - Quantitative Techniques – I**

**Course Outcomes:**

- CO1: Understand various types of average and measures of variation used for different types of data.
- CO2: Show familiarity with the concepts of statistics and various types of data.
- CO3: Exhibit the ability to compute different types of index numbers.
- CO4: Be skilled in computing different types of interests.

**Title of the paper: BCMCMC132 - Financial Accounting I**

**Course Outcomes:**

- CO1: Show the skills in the application of accounting concepts in employment position in the area of accounting.
- CO2: Analyze the financial position of the business for decision making.
- CO3: Show an understanding of the concept of rectification of errors.

**Title of the paper: BCMCMC133 - Strategic Management and Organizational Behavior**

**Course Outcomes:**

- CO1: Show an improved knowledge with the concepts of strategic management.
- CO2: Exhibit skills in organizational behavior and its contextual application.
- CO3: Show versatility with the understating and application of concepts of organizational behaviors in the employment context.

**Title of the paper: BCMCMC134 - Business Economics**

**Course Outcomes:**

- CO1: Assess the impact of basic concepts of business economics in business context.
- CO2: Be able to examine the nature and scope of economics to the context of present business issues which would help in business decision making policy.
- CO3: Develop the skills of analysis and application of the principles to the real world problems.
- CO4: Understand how product market works, illustrate basic principles in the field of production, and illustrate the concept of different market structures pertaining to the present context.
- CO5: Understand and apply macro-economic theories and concepts to contemporary social issues, as well as formulation and analysis of policies.

**Title of the paper: BCMCMC181 - Quantitative Techniques – II**

**Course Outcomes:**

- CO1: Understand the meaning, computation of correlation analysis.
- CO2: Show an understanding of the Number System and Theory of Equations.
- CO3: Be familiar with the concept of permutation and combination.
- CO4: Be skilled in measuring uncertainty of events.

**Title of the paper: BCMCMC182 - Financial Accounting – II**

**Course Outcomes:**

- CO1: Be familiar with the accounting procedure of joint venture accounting transactions.
- CO2: Identify the impact of consignment transactions.
- CO3: Exhibit the skills to present professional accounts.
- CO4: Show ability to apply accounting skills.
- CO5: Demonstrate the managerial skills.



**Title of the paper: BCMCMC183 -Human Resource Management**

**Course Outcomes:**

- CO1: Show an ability to understand integrated perspective of HRM in modern business.
- CO2: Be able to plan HR requirements and implement technique of job design.
- CO3: Show familiarity with recruitment and selection process.
- CO4: Exhibit the ability to understand the significance of training and development.
- CO5: Show an improved knowledge of motivation and leadership styles.

**Title of the paper: BCMCMC184 - Money and Public Finance**

**Course Outcomes:**

- CO1: Express the interconnectedness of public finance, banking system and international finance.
- CO2: Be familiar with the basic concepts and types of money in different context.
- CO3: Develop the application of monetary theories and principles to the real world monetary issues.
- CO4: Exhibit the skills in working of business cycles in the modern business world.
- CO5: Examine the role of banking sector/financial market in the economic functioning of a nation.
- CO6: Provide a worthy insight on the establishment and the working of international financial organizations, and also about their relevance in the modern economic world.

**Title of the Paper: BCMCMC231 - Direct Tax - I**

**Course Outcomes:**

- CO1: Show proficiency in understanding direct tax procedures and its implications on computing taxable income.
- CO2: Be able to understand the basics of income tax, like person, assessee, income, residential status, incidence of tax, sources of income.
- CO3: Show the ability to understand the exempted incomes and their application.
- CO4: Exhibit the ability to compute income from salaries.
- CO5: Show the ability to understand the significance of savings.

**Title of the Paper: BCMCMC232 - Financial Accounting III**

**Course Outcomes:**

- CO1: Show familiarity with the accounting procedure of Partnership firms.
- CO2: Be able to identify the impact of admission/retirement/death of a partner.
- CO3: Show the ability to present accounts.
- CO4: Demonstrate the increased accounting skills.
- CO5: Exhibit the ability to record the sale of a Firm to a limited company.

**Title of the Paper: BCMCMC233 - Modern Bank Management**

**Course Outcomes:**

- CO1: Be familiar with evolution of banking and functioning's of various banks in the present context.
- CO2: Show the ability to examine the investment policy of banks and also to analyze the importance of micro finance and modern monetary instruments.
- CO3: Show familiarity with the relevance and importance of innovation and digitalization in monetary sector.
- CO4: Develop the skills of analysis and application of the monetary principles to the real world problems.
- CO5: Exhibit skills to critically analyze the role of Central Bank in the functioning of modern economy.

**Title of the Paper: BCMCMC234 - Cost and Management Accounting-I**

**Course Outcomes:**

- CO1: Be familiar with the various types of Costs.
- CO2: Show familiarity with the significance of various costing methods.
- CO3: Demonstrate the skills to prepare Quotations.
- CO4: Show familiarity with the significance of inventory management.
- CO5: Exhibit the decision making skills.

### **Title of the Paper: BCMCMC281 - Direct Tax - II**

#### **Course Outcomes:**

- CO1: Be familiar with knowledge of income from house property.
- CO2: Exhibit knowledge of income from business/profession.
- CO3: Show ability to compute capital gains.
- CO4: Be familiar with the Income from other sources.
- CO5: Exhibit improved skills for set-off/carry forward of losses.

### **Title of the paper: BCMCMC282 - Financial Accounting IV**

#### **Course Outcomes:**

- CO1: Show an improved knowledge of the accounting procedure of Royalty Contracts.
- CO2: Be able to understand the branch accounting procedure.
- CO3: Show the ability to understand the departmental accounting procedure.
- CO4: Exhibit knowledge of the capital structure issues.
- CO5: Demonstrate the ability to apply decision making skills.

### **Title of the paper: BCMCMC283 - International Trade**

#### **Course Outcomes:**

- CO1: Show familiarity with international economic theories and apply trade theories and concepts to contemporary economic issues.
- CO2: Develop the skills of analysis and application of the trade theories and policies to the real world problems. Shows the importance of maintaining equilibrium in the balance of payments and suggests suitable measures to correct disequilibrium as well.
- CO3: Be familiar with the significance of international capital movements in the present context.
- CO4: Apply the knowledge gained from foreign exchange market in exchange rate determination.
- CO5: Be aware of the emergence of WTO and its functioning's pertaining to the global economic issues.

**Title of the paper: BCMCMC284 - Cost and Management Accounting II**

**Course Outcomes:**

- CO1: Show an ability to apply appropriate method of secondary distribution of overheads.
- CO2: Demonstrate the ability to apply required accounting method of overheads.
- CO3: Show familiarity with integrated accounting system.
- CO4: Be familiar with non-integrated accounting system.
- CO5: Exhibit the skills about reconciliation of cost and financial accounts.

**Title of the paper: BCMCMC331 – Direct Tax - III**

**Course Outcomes:**

- CO1: Show familiarity with various deductions available U/S 80.
- CO2: Be familiar with the assessment process of co-operative Society.
- CO3: Show an improved knowledge about assessment process of firms.
- CO4: Demonstrate knowledge about the assessment process of companies.
- CO5: Exhibit the expertise in the process of tax returns filing.

**Title of the paper: BCMCMC332 - Corporate Accounting I**

**Course Outcomes:**

- CO1: Show an ability to understand the applicability of IFRS.
- CO2: Show familiarity with the procedure for redemption of preference shares and debentures.
- CO3: Be familiar with the procedure for valuation of shares and goodwill.
- CO4: Be able to understand the significance underwriting of shares.
- CO5: Demonstrate decision making skills.

**Title of the paper: BCMCMC333 - Financial Management I**

**Course Outcomes:**

- CO1: Show familiarity with the importance of Financial Management.
- CO2: Be familiar with the importance of capital budgeting decisions.
- CO3: Show an ability to understand the significance of capital Structure.
- CO4: Be familiar with the significance of capital Structure.
- CO5: Demonstrate the skills about functions of Stock Exchanges.

**Title of the paper: BCMCMC 334 - Cost and Management Accounting III**

**Course Outcomes:**

- CO1: Apply the fundamental, conceptual and advanced practical knowledge to take effective business decisions in controlling the cost of the operating business activities.
- CO2: Demonstrate the skills in preparation of Job sheet, Batch cost sheet & Contract Cost accounts in process of determining the cost a job/product/contract.
- CO3: Exhibit proficiency in applying the concept and technique in the preparation of process costing accounts and determining the cost in each process.
- CO4: Show familiarity with the accounting for joint products and by products – both theoretical and practical problems.

**Title of the paper: BCMCMC 335 - Business Law**

**Course Outcomes:**

- CO1: Demonstrate a basic understanding of the laws relating to Contract, Information Technology and Intellectual Property Rights.
- CO2: Develop acceptable attitudes and viewpoints with respect of legal environment of business.
- CO3: Apply basic knowledge acquired to business transactions in their career ahead.

**Title of the paper: BCMCMC336 - Modern Marketing**

**Course Outcomes:**

- CO1: Understand the conceptual underpinnings in terms of core concepts.
- CO2: Understand the current role of marketing in the business and society.
- CO3: Comprehend the marketing issues in a growing business context through real marketing case studies and anecdotes.
- CO4: Develop the cognitive and analytical ability with application of marketing knowledge required for marketing career prospects.

**Title of the paper: BCMCMC381 - GST and Customs Duty**

**Course Outcomes:**

- CO1: Be familiar with indirect taxes and its significance to the government.
- CO2: Show familiarity with basics of GST computation and its implications on the economy.
- CO2: Be aware of GST structure, turnover, supply and other provisions of GST.
- CO3: Show the ability to understand the procedure and incidence of tax under GST.
- CO4: Exhibit the knowledge about registration, input tax credit, computation of GST and tax liability.
- CO5: Demonstrate the knowledge of GST documents and use of IT in GST.

**Title of the paper: BCMCMC382 - Corporate Accounting II**

**Course Outcomes:**

- CO1: Show an improved knowledge about the methods of valuation of shares and goodwill.
- CO2: Show familiarity with the vertical format of final accounts.
- CO3: Be familiar with the accounting procedure of Amalgamation, absorption and reconstruction.
- CO4: Demonstrate familiarity with the preparation of liquidators' final statement of accounts.
- CO5: Exhibit skills about analysis and interpretation of financial statements.

**Title of the paper: BCMCMC383 - Financial Management II**

**Course Outcomes:**

- CO1: Be familiar with working capital management.
- CO2: Show familiarity with the cost of capital.
- CO3: Exhibit the familiarity with Dividend Policies.
- CO4: Demonstrate the functioning of mutual funds.
- CO5: Show an understanding of treasury management.

**Title of the paper: BCMCMC384 - Cost and Management Accounting IV**

**Course Outcomes:**

- CO1: Show proficiency in applying the concepts and techniques in the preparation of cash flow statement.
- CO2: Analyze and interpret the financial statements in preparation of fund flow statement.
- CO3: Show increased skills in preparation of budget in the organization by making them to understand the significance of the budget preparation.
- CO4: Apply the fundamental, conceptual and advanced practical knowledge to take effective business decisions by using the Cost-volume-profit relationship, Break-even analysis tools
- CO5: Show familiarity with understanding the significance of the variance analysis in the process of controlling the cost of the product/department/ process/organization.

**Title of the paper: BCMCMC385 - Indian Corporate Law**

**Course Outcomes:**

- CO1: Demonstrate a comprehensive and accurate knowledge of laws relating to the formation, administration and operations of a company.
- CO2: Develop an understanding of current policy trends and developments in Corporate Law in Indian scenario.
- CO3: Demonstrate an in-depth understanding of the Companies Act, 2013 along with all its amendments.

**Title of the paper: BCMCMC386- Auditing**

**Course Outcomes:**

- CO1: Be enabled to understand the conceptual background, need, functions, types and process of auditing required for ensuring regulatory and normative environment in which auditor operates.
- CO2: Show an ability to identify and understand the auditor's duties, responsibilities and Liabilities.
- CO3: Apply appropriate audit procedures to test the audit assertions and objectives.
- CO3: Be familiar with the audit culture and critical thinking in auditing.
- CO4: Instill analytical skills leading to the enhancement of employability in the auditing domain.



**D. (1)**

**Faculty of Computer Science:**

**Title of the paper: BCA101: Fundamentals of Information Technology**

**Course Outcomes:**

- CO1: Be familiar with definition of computer and different parts of the computer and exhibit the skills to work in the computer.
- CO2: Show the ability to identify the input/out devices and its working pattern.
- CO3: Be familiar with hardware and software used in the various fields of IT industry.
- CO4: Exhibit the skills of working in the Microsoft office applications.

**Title of the paper: BCA102: Fundamentals of C**

**Course Outcomes:**

- CO1: Be familiar with definition of programming and different types programming languages and exhibit the skills to solve problem using algorithm and flow charts.
- CO2: Show the ability understand the strengths of C, which provide the means of writing efficient, maintainable, and portable code.
- CO3: Be familiar to learn and acquire art of computer programming.
- CO4: Exhibit the skills in Programming language for solving a problem.

**Title of the paper: BCA103: Mathematics**

**Course Outcomes:**

- CO1: Be familiar with definition of Errors and different forms of Errors in the computations and exhibit the skills to solve algebraic equation, transcendental equations by using various methods.
- CO2: Show the ability to solve linear homogeneous equations by direct and iterative methods.
- CO3: Be familiar with interpolation method to find forward and backward differences by using Newton's method.
- CO4: Exhibit the skills of numerical differentiation and Numerical Integration by various methods.

### **Title of the paper: BCA151: Computer Organization and Architecture**

#### **Course Outcomes:**

- CO1: Be familiar with How Computer Systems work & its basic principle.
- CO2: Show the ability to analyze the system performance.
- CO3: Be familiar with Concepts behind advanced pipelining techniques.
- CO4: Exhibit the skills of the current state of art in memory system design.
- CO5: Show an increased knowledge on Instruction Level Parallelism.

### **Title of the paper: BCA152: Advanced C and C++**

#### **Course Outcomes:**

- CO1: Be familiar with C\C++ the base of today's most preferred programming languages. Even the most popular Operating Systems like Linux, Unix, Solaris & Windows are all designed in C\C++ or in their higher versions.
- CO2: Show the ability to solve linear homogeneous equations by direct and iterative methods.
- CO3: Be familiar with concept of Object Oriented Programming
- CO4: Exhibit the skills of working in c and c++
- CO5: Demonstrate an ability to create software applications using OOPs Concept.

### **Title of the paper: BCA153: Database Concepts and Oracle**

#### **Course Outcomes:**

- CO1: Be familiar with basic database concepts, including the structure and operation of the relational data model.
- CO2: Show an ability to understand and successfully apply logical database design principles, including E-R diagrams and database normalization.
- CO3: Be familiar with Design and implement a small database project using Microsoft Access.
- CO4: Exhibit the skills of Construct simple and moderately advanced database queries using Structured Query Language(SQL).

### **Title of the paper: BCA201: Operating System and Linux**

#### **Course Outcomes:**

- CO1: Be familiar with Distributed operating system concepts that includes architecture, Mutual exclusion algorithms, Deadlock detection algorithms and agreement protocols.
- CO2: Show the ability to understand the fundamentals of Operating Systems.
- CO3: Be familiar with the insight on to the distributed resource management components viz. The algorithms for implementation of distributed shared memory, recovery and commit protocols.
- CO4: Exhibit familiarity with the components and management aspects of Real time, Mobile operating Systems.

### **Title of the paper: BCA202: Data Structures Using C++**

#### **Course Outcomes:**

- CO1: Be familiar with basic concepts of data structures and algorithms.
- CO2: Show the ability to understand concepts about searching and sorting techniques.
- CO3: Be familiar with basic concepts about stacks, queues, lists, trees and graphs.
- CO4: Exhibit the skills in writing algorithms and step by step approach in solving problems with the help of fundamental data structures.

### **Title of the paper: BCA203: Visual Basic .Net Programming**

#### **Course Outcomes:**

- CO1: Be familiar with Design, formulate, and construct applications with VB.NET.
- CO2: Show the ability to work with Integrate variables and constants into calculations applying VB.NET.
- CO3: Be familiar with Implement lists and loops with VB.NET controls and iteration.
- CO4: Exhibit the skills to Create VB.NET programs using multiple array techniques.
- CO5: Be able to build integrated VB.NET solutions using files and structures with printing capabilities.

**Title of the paper: BCA401: Computer Graphics and Animation**

**Course Outcomes:**

- CO1: Be familiar with how computer systems work and its basic principle.
- CO2: Show the ability to analyze the system performance.
- CO3: Be familiar with Concepts behind advanced pipelining techniques.
- CO4: Exhibit the skills of Nano programming.

**Title of the paper: BCA251: Java Programming**

**Course Outcomes:**

- CO1: Be familiar with model of object oriented programming: abstract data types, encapsulation, inheritance and polymorphism.
- CO2: Show the ability to understand fundamental features of an object oriented language like Java: object classes and interfaces, exceptions and libraries of object collections.
- CO3: Be familiar with the statement of a business problem and determine suitable logic for solving the problem; then be able to proceed to code that logic as a program written in Java.
- CO4: Exhibit the skills to test, document and prepare a professional looking package for each business project using java doc.

**Title of the paper: BCA252-E1: Data Mining**

**Course Outcomes:**

- CO1: Be familiar with the value of data mining in solving real-world problems.
- CO2: Show the ability to understand foundational concepts underlying data mining.
- CO3: Be familiar with algorithms commonly used in data mining tools.
- CO4: Exhibit the skills to apply data mining tools to real-world problems.

### **Title of the paper: BCA301: Software Engineering**

#### **Course Outcomes:**

- CO1: Be familiar with definition of software engineering and the methods of software development.
- CO2: Show the ability to be employed in industry, government, or entrepreneurial endeavors to demonstrate professional advancement through significant technical achievements and expanded leadership responsibility.
- CO3: Demonstrate the ability to work effectively as a team member and/or leader in an ever-changing professional environment.
- CO4: Exhibit the skills of Progress through advanced degree or certificate programs in computing, science, engineering, business, and other professionally related fields.

### **Title of the paper: BCA302: Computer and Communication Networks**

#### **Course Outcomes:**

- CO1: Be familiar with to computer networks and concentrates on building a firm foundation for understanding Data Communications and Computer Networks.
- CO2: Show the ability to understand the architectural principles of computer networking and compare different approaches to organising networks.
- CO3: Be familiar with key networking protocols and their hierarchical relationship in the context of a conceptual model such as the OSI and TCP/IP framework.
- CO4: Exhibit the skills of Identify core networking and infrastructure components and the roles they serve.

### **Title of the paper: BCA 303: Distributed Computing**

#### **Course Outcomes:**

- CO1: Be familiar with concepts behind Distributed Systems
- CO2: Show the ability to solve linear homogeneous equations by direct and iterative methods.
- CO3: Be familiar with design and build application programs on distributed systems.
- CO4: Exhibit the skills to develop, test and debug RPC based client-server programs.

### **Title of the paper: BCA 304: Web Technology**

#### **Course Outcomes:**

- CO1: Be familiar with knowledge of Web Application Terminologies, Internet Tools.
- CO2: Show the ability to provide in-depth understanding of the tools and technologies necessary for Web application design and development.
- CO3: Be skilled to select and apply markup languages for processing, identifying, and presenting information in web pages.
- CO4: Exhibit the skills in using scripting languages and web services to add interactive components to web pages.
- CO5: Show an ability to design and implement websites with good aesthetic sense of designing.

### **Title of the paper: BCA 305: Python Programming**

#### **Course Outcomes:**

- CO1: Be skilled in creating, debugging and testing a software application using the Python programming language.
- CO2: Show the ability to study Python Fundamentals to advanced concepts like OOPS.
- CO3: Be familiar with Exception handling, multi-threading, Networking.
- CO4: Exhibit the skills in Database Connectivity and Graphical User Interface.

### **Title of the paper: BCA306-E1: Account and Financial Management**

#### **Course Outcomes:**

- CO1: Be familiar with basic knowledge of Accounting ,competency to enter accounting transactions in the accounting software and generate different accounting reports/documents.
- CO2: Show the ability to make cost analysis reports, profit & loss accounts, balance sheets, and cash flow statements etc.
- CO3: Be familiar with skills in maintaining accounting records, provides in-depth exposure to accounts receivable/ accounts payable, payroll and inventory modules.
- CO4: Exhibit the skills in Computerized Accounting for maintaining accounting records, making management decisions, and processing common business applications.

**Title of the paper: BCA 306-E2: Android Application Development**

**Course Outcomes:**

- CO1: Be familiar with the basic knowledge about mobile application development in Android platform.
- CO2: Show the ability to build applications to mobile devices and thus prepare them to be ready for the industry.
- CO3: Be familiar to apply the skills for creating, deploying Android applications, with particular emphasis on software engineering topics including software architecture, software process, usability, and deployment.
- CO4: Exhibit the skills of the knowledge of android architecture and the tools for developing android applications.

**Title of the paper: BCA306-E3: Sci Lab Programming**

**Course Outcomes:**

- CO1: Be familiar with the syntax, semantics, data-types and library functions of numerical computing language such as MATLAB and/or SCILAB.
- CO2: Show the ability to understand the need for simulation/implementation for the verification of mathematical functions.
- CO3: Be familiar with the main features of the SCILAB program development environment to enable their usage in the higher learning.
- CO4: Exhibit the skills of analyzing the program for correctness and determine/estimate/predict the output and verify it under simulation environment using /SCILAB tools.

**Title of the paper: BCA351: E-Commerce**

**Course Outcomes:**

- CO1: Be familiar with concepts and principles E-commerce.
- CO2: Show the ability to understand the principles and practice of Electronic Commerce.
- CO3: Be familiar with components, functions and roles of the Electronic Commerce environment E-Commerce payment systems.

**Title of the paper: BCA352: Network Security and Management**

**Course Outcomes:**

- CO1: Be familiar with knowledge of network Security, Database Security, information Security and Security laws.
- CO2: Show the ability to understand various factors driving the need for network, Database and information security.
- CO3: Be familiar with knowledge of basic cryptography Concepts.
- CO4: Exhibit the skills of Network Security Management.

**Title of the paper: BCA353: Software Testing**

**Course Outcomes:**

- CO1: Be familiar with the necessity of software testing.
- CO2: Show the ability to analyze risks associated with software testing.
- CO3: Be familiar with different tools available for software testing.
- CO4: Exhibit the skills of Create test strategies and plans, design test cases, prioritize and execute them.



**Title of the paper: BCA354-E1: Programming for Analytics**

**Course Outcomes:**

- CO1: Be familiar with field of Analytics like SQL, SAS, R and form foundation for further analysis of Datasets.
- CO2: Show an ability to learn the basics of these programming languages and learn data manipulation techniques.
- CO3: Be familiar with models of analysis, assess the quality of input, derive insight from results, and investigate potential issues.
- CO4: Formulate and use appropriate models of data analysis to solve hidden solutions to business-related challenges.
- CO5: Exhibit the skills Analyze and interpret data using an ethically responsible approach.

**Title of the paper: BCA354-E2: Multivariate Data Analysis**

**Course Outcomes:**

- CO1: Be able to exercise Multivariate Techniques in R environment in different Business Cases.
- CO2: Show the ability to understand different techniques covered under the scope of Multivariate Analysis.
- CO3: Be familiar with Obtain, clean/process and transform data.
- CO4: Exhibit the skills of Analyze and interpret data using an ethically responsible approach, using appropriate models of analysis, assess the quality of input, derive insight from results, and investigate potential issues.

**Title of the paper: BCA354-E3: Business Statistics with R**

**Course Outcomes:**

- CO1: Be familiar with the fundamentals of statistical analysis in R environment.
- CO2: Show the ability to understand different techniques covered under the scope of Multivariate Analysis.
- CO3: Be familiar with Obtain, clean/process and transform data.
- CO4: Exhibit the skills of Analyze and interpret data using an ethically responsible approach using appropriate models of analysis, assess the quality of input, derive insight from results, and investigate potential issues.

**Title of the paper: BCA354-E4: Lamp Technology**

**Course Outcomes:**

- CO1: Be familiar with importance of LAMP Technology to build Web based application to assess data models.
- CO2: Show the ability to design web bases application on client server technology.
- CO3: Be familiar with use of appropriate models of analysis, assess the quality of input, derive insight from results, and investigate potential issues.
- CO4: Exhibit the skills to analyze and interpret data using an ethically responsible approach.
- CO5: Be able to solve numerically O.D.E by various methods.

**Title of the paper: BCA 355: Project Work**

**Course Outcomes:**

- CO1: Have the ability to obtain and use the mathematical, scientific and engineering-based knowledge towards an in-depth technical efficacy in the field of software development.
- CO2: Have the ability to identify, conclude and resolve software development related issues.
- CO3: Able to design a system, component or process to fulfill the needs in the actual constraints like surroundings, community, ethic and cyber security.
- CO4: Understand and be determined towards professional responsibility and ethics.
- CO5: Have the ability to design and conduct experiments, as well as analyze and translate data.
- CO6: Have the ability to use the method, skills and modern software development equipment in software engineering practices.
- CO7: Have the ability to function effectively as individuals and group members, along with the ability to lead and manage.
- CO8: Have the ability to identify and be in possession of lifelong learning capability.

**D. (1.1)**

**Faculty of Computer Application:**

**Title of the paper: BASCAC131 Information Technology**

**Course Outcomes:**

**CO1:** Be able to apply knowledge of computing analyze a problem, and identify and define the computing requirements appropriate to its solution

**CO2:** Be able to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs

**CO3:** Be able to effectively integrate IT based solutions into the user environment

**Title of the paper: BASCAC181 Problem Solving with C**

**Course outcomes:**

**CO1:** Apply programming knowledge to create solutions to challenging problems, including specifying, designing, implementing and validating solutions for new problems

**Title of the paper: BASCAC231 Operating System**

**Course Outcomes:**

**CO1:** Analyze the structure of OS and basic architectural components involved in design

**CO2:** Analyze the various resource management techniques

**CO3:** Interpret the mechanisms adopted for file sharing

**CO4:** Conceptualize the components involved in designing a contemporary OS

**CO5:** Be familiar with various types of operating systems

**Title of the paper: BASCAC331 Java Programming**

**Course Outcomes:**

**CO1:** Create Java programs that solve simple business problems.

**CO2:** Validate user input, perform a test plan to validate a Java program and Document a Java program.

**Title of the paper: BASCAC332 Computer Graphics and Animation**

**Course Outcomes:**

**CO1:** Apply skills in computer graphics and animation in design and development of simple projects

**Title of the paper: BASCAC381 VB.NET Programming**

**Course Outcomes:**

**CO1:** Have ability to design and develop interactive applications using the object-oriented principles

**CO2:** Be able to effectively develop applications with full functionality and a graphical user interface using Visual Basic

**CO3:** Have the capability of analyzing and finding suitable and effective solutions to Windows based Applications

**E. (1)**

**Faculty of Business Administration**

**Title of the paper: BBABMC133 - Business Organization**

**Course Outcomes:**

- CO1: Show an ability to understand SWOC of the organizations.
- CO2: Identify opportunities available in the market.
- CO3: Show an improved skill to communicate effectively.
- CO4: Be able to identify Entrepreneurial skills.
- CO5: Exhibit managerial skills.

**Title of the paper: BBABMC134 - Principles of Management**

**Course Outcomes:**

- C01: Show an ability to understand importance of the management process.
- C02: Identify opportunities available in the market.
- C03: Show effective communicative skills.
- C04: Exhibit ability to apply Entrepreneurial skills.
- C05: Demonstrate managerial skills.

**Title of the paper: BBABMC135- Accounting I**

**Course Outcomes:**

- CO1: Show an ability to understand types of accounts.
- CO2: Be able to identify the impact of transactions.
- CO3: Show familiarity to present accounts.
- CO4: Demonstrate ability to apply accounting skills.
- CO5: Show the ability of managerial skills.

**Title of the paper: BBABMC132 - Principles of Economics**

**Course Outcomes:**

- C01: Show ability to understand various concepts of economics.
- C02: Exhibit skills required to apply basics of consumer behavior.
- C03: Show familiarity with the basics of Demand and Supply theories.
- C04: Show an understanding of the significance of factors of production.
- C05: Be aware of the significance of micro-entrepreneurship.

**Title of the paper: BBABMC183 - Managerial Communication**

**Course Outcomes:**

- C01: Show an understanding of the SWOC of communication process.
- C02: Be able to identify opportunities available in the Communication field.
- C03: Demonstrate an effective communicative skill.
- C04: Exhibit an ability to identify entrepreneurial skills.
- C05: Show an ability to apply managerial skills.

**Title of the paper: BBABMC185 - Business Entrepreneurship and Environment**

**Course Outcomes:**

- CO1: Show an understanding of the SWOC of business environment.
- CO2: Be able to identify opportunities available in the market.
- CO3: Demonstrate effective communicative skills.
- CO4: Identify entrepreneurial skills.
- CO5: Demonstrate the managerial skills.

**Title of the paper: BBABMC184 - Accounting II**

**Course Outcomes:**

- CO1: Be able to understand types of accounts.
- CO2: Identify the impact of transactions.
- CO3: Be familiar with present accounting norms.
- CO4: Show familiarity with the application of accounting skills.
- CO5: Exhibit managerial skills.

**Title of the paper: BBABMC182 - Managerial Economics**

**Course Outcomes:**

- C01: Be able to apply basic economic tools.
- C02: Show an ability to apply Cost -Benefit analysis.
- C03: Exhibit skills in market trends analysis.
- C04: Be aware of demand forecasting techniques.
- C05: Exhibit managerial skills.

**Title of the paper: BBABMC232 -Organizational Behavior**

**Course Outcomes:**

- C01: Show an understanding of the importance of human psychology.
- C02: Be aware of the importance of Attitude.
- C03: Show familiarity with the significance of Perception.
- C04: Exhibit an understanding of the significance motivation.
- C05: Demonstrate decision making skills in resolving organizational conflicts.



**Title of the paper: BBABMC233 - Marketing Management**

**Course Outcomes:**

- CO1: Understand the significance of marketing management.
- CO2: Be able to understand the significance of promotion mix.
- CO3: Identify and understand the significance of services market.
- CO4: Be aware of the present marketing issues.
- CO5: Exhibit the application managerial skills.

**Title of the paper: BBABMC236 -Corporate Accounting – I**

**Course Outcomes:**

- C01: Show an understanding of types of Share Issues.
- C02: Show an ability to identify the impact of transactions.
- C03: Be skilled to present accounts.
- C04: Be able to apply accounting skills.
- C05: Exhibit managerial skills.

**Title of the paper: BBABMC235 -Investment Management**

**Course Outcomes:**

- C01: Understand the importance of Savings and Investment.
- C02: Be able to understand the operations of capital market.
- C03: Demonstrate the ability to understand the operations of stock market.
- C04: Exhibit basic idea about forward and future contracts.
- C05: Show familiarity with the mutual fund operations and schemes.

**Title of the paper: BBABMC234 - Business Statistics and Mathematics**

**Course Outcomes:**

- CO1: Show familiarity with the concepts of statistics and various types of data
- CO1: Demonstrate an awareness of various types of averages and variations.
- CO1: Exhibit skills in computation of different types of averages and variations.
- CO4: Be skilled with the computation of coefficients of correlation and regression.
- CO1: Show skills in computing different types of interests.

**Title of the paper BBABMC282 -Modern Banking Management**

**Course Outcomes:**

- C01: Show familiarity about the Indian banking system.
- C02: Be aware of the Banking functions.
- C03: Be familiar with the Central Banking functions.
- C04: Demonstrate knowledge about the financial markets.
- C05: Exhibit the skills about customer relationship management.

**Title of the paper: BBABMC285 -Financial Management**

**Course Outcomes:**

- C01: Show an understanding of the significance of financial management.
- C02: Be familiar with the significance of capital budgeting.
- C03: Show familiarity with the significance of cost of capital.
- C04: Be able to understand the leverage issues.
- C05: Apply financial decision making skills.

**Title of the paper: BBABMC286 -Corporate Accounting – II**

**Course Outcomes:**

- CO1: Be able to apply appropriate treatment of Mergers and Acquisition.
- CO2: Show an ability to identify the impact of transactions.
- CO3: Be familiar with presentation of accounts.
- CO4: Demonstrate the accounting skills.
- CO5: Exhibit managerial skills.

**Title of the paper: BBABMC284 -Human Resources Management**

**Course Outcomes:**

- CO1: Understand importance of the HR Management.
- CO2: Be able to identify opportunities available in the market.
- CO3: Show effective communicative skills.
- CO4: Identify HR issues.
- CO5: Demonstrate effective managerial skills.

**Title of the paper: BBABMC283 -Computer Applications in Management**

**Course Outcomes:**

- CO1: Demonstrate a fair knowledge about the use of computers.
- CO2: Students will be having a fair knowledge about the recent developments in the field.
- CO3: Students will be having a fair understanding about the opportunities in the field.
- CO4: Students will be having basic understanding about MIS
- CO5: Students will be able to apply Managerial skills.

**Title of the paper: BBABMC331 - Commercial Law**

**Course Outcomes:**

- CO1: Understand importance of the legal system.
- CO2: Show ability to identify opportunities available in the market.
- CO3: Be able to communicate effectively.
- CO4: Be able to identify legal issues.
- CO5: Demonstrate effective managerial skills.

**Title of the paper: BBABMC333 - Event Management and Public Relations**

**Course Outcomes:**

- C01: Show fair knowledge about event management.
- C02: Exhibit improved knowledge about public relations.
- C03: Show familiarity with the concepts of event management.
- C04: Students will be having a fair idea about the process of event management.
- C05: Students will have a fair idea about the public relations.

**Title of the paper: BBABMC332 - Cost Accounting**

**Course Outcomes:**

- CO1: Be able to understand the various types of costs.
- CO2: Understand the significance of various costing methods.
- CO3: Show ability to prepare quotations.
- CO4: Understand the significance of inventory management.
- CO5: Demonstrate effective decision making skills.

**Title of the paper: BBABMC334 -Export Management**

**Course Outcomes:**

- C01: Show an understanding of various concepts of International Trade.
- C02: Show familiarity with the significance of International Trade.
- C03: Exhibit a fair idea about Export Promotion Measures.
- C04: Demonstrate Export Procedure steps.
- C05: Be skilled in decision making.

**Title of the paper: BBABMCE335 - Working Capital Management**

**Course Outcomes:**

- C01: Exhibit knowledge about Working Capital.
- C02: Show the skills in Working Capital Management.
- C03: Show basic understanding of Cash Management.
- C04: Be familiar with Receivable/ Payable Management.
- C05: Show familiarity with Lease Financing activities.

**Title of the paper: BBABMCE336 - Retailing and Service Marketing**

**Course Outcomes:**

- CO1: Be familiar with Retailing.
- CO2: Show familiarity with Service Marketing.
- CO3: Show familiarity with the opportunities in the field of service marketing.
- CO4: Show a fair knowledge about CRM.
- CO5: Demonstrate skills in marketing of services.

**Title of the paper: BBABMC381 - Company Law**

**Course Outcomes:**

- CO1: Be familiar with company form of organization.
- CO2: Show familiarity with company formation.
- CO3: Improved knowledge about share transfer process.
- CO4: Be aware of company meeting process.
- CO5: Be familiar with the role of a director.

**Title of the paper: BBABMC382 - Income Tax**

**Course Outcomes:**

- CO1: Show the ability to understand the sources of income.
- CO2: Be able to understand the types of assesseees.
- CO3: Exhibit the skills to compute Income from Salaries.
- CO4: Be able to understand the significance of savings.
- CO5: Demonstrate effective decision making skills.

**Title of the paper: BBABMC383 - Cost and Management Accounting**

**Course Outcomes:**

- CO1: Be able to apply appropriate method of labor remuneration.
- CO2: Knowledge to apply required method of costing.
- CO3: Be familiar with contract costing.
- CO4: Show familiarity with process costing.
- CO5: Exhibit improved knowing of management accounting significance.

**Title of the paper: BBABBME384: Auditing**

**Course Outcomes:**

- C01: Exhibit a fair idea about process of auditing.
- C02: Be able to understand process of vouching.
- C03: Be familiar with the system of internal check.
- C04: Be familiar with the rights of company auditor.
- C05: Show familiarity with the duties of company auditor.

**Title of the paper: BBABMCE386: Financial Analysis**

**Course Outcomes:**

- CO1: Show a fair idea about process of financial Analysis.
- CO2: Be aware of the process of wealth creation.
- CO3: Be skilled to prepare Fund Flow Statements.
- CO4: Exhibit an ability to prepare Cash Flow Statements.
- CO5: BE familiar with the application/calculation of required Financial Ratios.

**Title of the paper: BBABMCE387: Advertising and Sales Management**

**Course Outcomes:**

- CO1: Understand the various types of advertisements.
- CO2: Understand the significance of various ad media.
- CO3: Be able to prepare advertisement copy.
- CO4: Identify and understand the significance of media management.
- CO5: Exhibit decision making skills.

**F**

**Faculty of Bachelor of Vocational Programs**

**F (1) Digital Media and Film Making**

**I Semester: BVOCDMF101: Introduction to Film**

**Course outcomes:**

- CO1: Develop a deeper understanding of world cinema
- CO2: Show an understanding about genres and types of cinema
- CO3: Be skilled to critically analyze the cinema
- CO4: Develop a basic understanding of the formal techniques necessary for the production of cinematic narratives
- CO5: Demonstrate knowledge in creative writing and understand its scope in entertainment media

**I Semester: BVOCDMF102: Introduction to Digital Media and Social Media**

**Course outcomes:**

- CO1: Be able to clearly distinguish the impacts of digital media and social media as opposed to mainstream media.
- CO2: Understand the basic functioning of the internet to be able to see their internet usage patterns in a new light.
- CO3: Be familiar with the foundational concepts of the digital era
- CO4: Be able to present and manage individual social media profiles laying a foundation for audience approaches.

**I Semester: BVOCDMF103: Story Writing Exercise**

**Course outcomes:**

- CO1: Show an ability of story writing in multiple ways
- CO2: Develop elements of story telling
- CO3: Be able to develop fictional characters
- CO4: Exhibit knowledge of structural story writing
- CO5: Show the knowledge of story writing process



## **I Semester:BVOCDMF104: Practical Paper: Introduction to Digital Media Basics**

### **Course outcomes:**

- CO1: Exhibit an expertise in usage of Microsoft applications.
- CO2: Exhibit easy skills in formal writing such as e-mails, letters to higher authorities.
- CO3: Show an acquaintance with the basic internet skills that lay a foundation to understanding digital media.
- CO4: Demonstrate professional outlook in all social media profiles

## **I Semester: BVOCDMFP105:Practical Project Digital Media and Film**

### **Course Outcomes:**

- CO1: Be able for customization of different social media platforms
- CO2: Exhibit an effective usage of digital media platforms in film making
- CO3: Be aware of storytelling, presentation platforms
- CO4: Develop interest regarding research on new media use and outcomes
- CO5: Show deeper knowledge about usage of digital media platforms in film

## **II Semester:BVOCDMF151: Understanding Film**

### **Course outcomes:**

- CO1: Gain broad knowledge about history of screenplay writing and understand importance of significant screenplay writers
- CO2: Be able to understand the film production stages
- CO3: Demonstrate the importance of screenplay writing and film production
- CO4: Show familiarity with screenwriting format elements in detail
- CO5: Develop an understanding of the complete film making process

## **II Semester: BVOCDMF152: Content Creation for Digital Media**

### **Course outcomes:**

- CO1: Be aware of the varied forms that they can experiment with and find their niche.
- CO2: Be capable of different forms of content creation, keeping legal frameworks in mind.
- CO3: Develop a clear idea of the type of platforms they can showcase their content and, alter their content based on custom requirements.
- CO4: Show familiarity with the techniques that can be used to promote their content on digital media and obtain feedback.

## **II Semester: BVOCDMFP153: Practical- Screenplay writing**

### **Course Outcomes:**

- CO1: Be skilled in prescreen play drafting
- CO2: Develop skills in screenplay writing format with software
- CO3: Show improved dialogue writing skill
- CO4: Be aware of screenplay structure
- CO5: Be familiar with the film production process

## **II Semester: BVOCDMFP154: Practical-Digital media Content creation exercises**

### **Course outcomes:**

- CO1: Show acquaintance and expertise in creating different forms of content that can be disseminated in theoretically comprehended digital media platforms.
- CO2: Exhibit an understanding of levels of success and engagement that specific types of content can garner on digital media based on type of platform they are disseminated on.
- CO3: Show an exhaustive understanding of legal implications to be kept in mind while creating content for digital media.

## **II Semester: BVDMF155: Practical Understanding Film and Digital Media Content**

### **Course Outcomes:**

- CO1: Exhibit research orientation for understanding digital media contents
- CO2: Show an ability in Creation of blog, YouTube, Facebook accounts and personalization according to industry needs
- CO3: Demonstrate skills in Movie review and other digital content creation for movie promotion
- CO4: Be able to watch movie and create digital content
- CO5: Be skilled in practical application of digital media platforms for movie promotion

## **III Semester: BVOCDMF201: Cinematography and Light**

### **Course outcomes:**

- CO1: Develop an understanding of collaboration between the cinematographer and director.
- CO2: Exhibit the basic skills in the roles of camera assistant, gaffer and key grip.
- CO3: Be aware of the history and developments of cinematography and camera technology
- CO4: Understand Elements of cinematography and lighting technique

## **III Semester: BVOCDMF202: Digital Branding**

### **Course outcomes:**

- CO1: Exhibit skills in the concepts of digital branding and be capable of formulating strategies for the same.
- CO2: Be able to identify and design novel branding elements based on exhaustive comprehension of the requirements of a brand.
- CO3: Be aware of choosing the right digital platforms, identify their audience and design strategies to promote a brand identity effectively.
- CO4: Show capability of breaking the process of branding down when they come across a successful brand identity and identify worthy elements of emulation, development and implementation.

### **III Semester: BVOCDMFP203: Practical-Screenplay and Camera**

#### **Course Outcomes:**

- CO1: Show expertise in camera and components of movie camera
- CO2: Be skilled in applying knowledge of camera elements
- CO3: Demonstrate deeper knowledge about camera and light and its application in a movie production
- CO4: Show real time shooting expertise
- CO5: Exhibit analytical knowledge about camera and content

### **III Semester: BVOCDMFP204: Practical-Application of Digital Branding Concepts**

#### **Course outcomes:**

- CO1: Show a thorough understanding of elements of digital branding such that new brand identities can be created based on past experience.
- CO2: Exhibit experience in creating brand elements that can be launched on digital media.
- CO3: Be skilled in creation of multimedia brand identities befitting digital media platforms.
- CO4: Show capability to develop a complete brand identity and launching it online, obtaining feedback and making necessary alterations.

### **III Semester: BVOCDMFP205: Practical Project -Multimedia content & Branding**

#### **Course Outcomes:**

- CO1: Be aware of client initiative Branding strategy
- CO2: Develop brand elements according to client need and presenting
- CO3: Use multimedia (video, audio, graphics, logo) for branding
- CO4: Execute multimedia plans
- CO5: Be skilled in Professional brand presentation

#### **IV Semester: BVOCDMF251: Film Direction and Production**

##### **Course outcomes:**

- CO1: Be knowledgeable about history of direction and foundation of film making
- CO2: Show awareness about direction department and can work as amateur directors
- CO3: Be able to handle production and work as a team
- CO4: Be familiar with each department in production

#### **IV Semester: BVOCDMF252: Digital Marketing**

##### **Course outcomes:**

- CO1: Show an understanding of the need for digital marketing and the techniques associated with it.
- CO2: Show familiarity with digital marketing techniques.
- CO3: Be aware of the success and failure cases in digital marketing.
- CO4: Be familiar with the methods of client interaction and client feedback in a practical manner.

#### **IV Semester: BVOCDMFP253: Practical-Directing a Scene**

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

- CO1: Show expertise in direction technique by watching classics
- CO2: Be able to know about collective output visualization
- CO3: Demonstrate expertise in direction through mock shoot
- CO4: Show a deeper knowledge about Direction Process
- CO5: Exhibit a real time directing experience

#### **IV Semester: BVOCDMFP254: Practical-Implementation of digital marketing**

##### **Course outcomes:**

- CO1: Show an expertise in creating, sustaining and utilizing business accounts in social media marketing tools.
- CO2: Develop a clear idea of target audience defining through creation of buyer persona.
- CO3: Show an acquaintance with the complete idea of launching and marketing a product/service online.
- CO4: Develop expertise in creating and disseminating different types of digital media advertisements.

#### **IV Semester: BVOCDMFP255: Practical Project-Short Movie Production and Digital Promotion**

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

- CO1: Demonstrate an expertise in mapping of promotional strategies for a movie
- CO2: Execute advanced promotional techniques
- CO3: Be skilled in Film production
- CO4: Devise promotional strategies for individual film
- CO5: Be skilled in Identification of promotional tools and final launch of product

#### **V Semester: BVOCDMF301: Film Editing and Sound**

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

- CO1: Show familiarity with the editing technology and its growth
- CO2: Exhibit basic working knowledge in nonlinear editing
- CO3: Demonstrate an ability to construct stories with the help of editing
- CO4: Show familiarity with working idea of video editing using software tools

## **V Semester:BVOCDMF302: Tools in Digital Media**

### **Course outcomes:**

- CO1: Be familiar with organic and paid digital media tools
- CO2: Show an understanding of Social media tools to execute advanced social media strategies for activities ranging from simple promotions to brand marketing.
- CO3: Be able to design and launch their own blogs/websites with advertisements
- CO4: Exhibit skills in the usage of Google tools that provide profound information and assistance towards effectively marketing a brand identity.

## **V Semester:BVOCDMF303: Entertainment Media Production**

### **Course outcomes:**

- CO1: Be aware of the dynamics of entertainment media
- CO2: Show familiarity with exclusive information about different programme pattern in entertainment media.
- CO3: Exhibit knowledge about production parameters of entertainment media
- CO4: Be familiar with different roles and responsibilities of entertainment media experts

## **V Semester:BVOCDMF304: News and Digital Media**

### **Course outcomes:**

- CO1: Show a clear understanding of the dynamics and rules of news presentation on digital media and be capable of adhering to them.
- CO2: Be able to comprehend the functionality and possibilities of news websites in the current world, and career opportunity in them.
- CO3: Demonstrate skills in content creation for news website.
- CO4: Be capable of producing and processing multimedia content for effective presentation of multimedia content.

### **V Semester: BVOCDMFP305: Practical -Film and Non fictional Editing**

#### **Course Outcomes:**

- CO1: Show expertise in Film Editing Software
- CO2: Develop knowledge about tools and elements of film editing
- CO3: Demonstrate expertise in building a scene through editing
- CO4: Develop knowledge about non fictional (news, graphics) editing
- CO5: Show expertise in different types of editing

### **V Semester: BVOCDMFP306: Practical-Implementation of digital media tools**

#### **Course outcomes:**

- CO1: Be able to create well-managed website through implementation of custom-recognized that can be a consistent exercise to experiment with the dynamics of digital media.
- CO2: Show expertise in management of marketing tools.
- CO3: Be skilled in complete comprehension of Google tools and their applicability.
- CO4: Be able to self-manage digital platform through identification, customization and implementation of advanced designing and marketing tools.

### **V Semester: BVOCDMFP307: Practical Project Creating News Website and Multimedia Reporting**

#### **Course Outcomes:**

- CO1: Develop approached expertise in news website and new media platforms
- CO2: Be skilled in practical implication of multimedia tools in news room
- CO3: Show expertise in new media reporting
- CO4: Develop practical knowledge of parts of news website
- CO5: Create Customized news website



## **VI Semester:BVOCDMF351: Film Production Marketing**

### **Course outcomes:**

- CO1: Show practical knowledge about marketing films
- CO2: Exhibit research skills in film market
- CO3: Be familiar with applied knowledge about new Medias and methods of application in films
- CO4: Show an understanding about the structure of OTT platforms and OTT content
- CO5: Undergraduate will get execution idea about film production and marketing

## **VI Semester:BVOCDMF352:Advanced Study of News and Digital Media**

### **Course outcomes:**

- CO1: Be skilled in creatively and technically equipped strategies of live news updates on digital media.
- CO2: Show an ability to stream live news from various sources on digital platforms.
- CO3: Be skilled in the process of news marketing and be equipped with the techniques of fact verification.
- CO4: Be aware of the career prospects in digital news media and how they can find their niche.

## **VI Semester:BVOCDMF353: Advanced Entertainment Media Production**

### **Course outcomes:**

- CO1: Show an understanding about new perspective of entertainment media
- CO2: Be familiar with new trends and program patterns of new entertainment media
- CO3: Demonstrate an advanced knowledge of web series making
- CO4: Be familiar with various new marketing tips of entertainment media
- CO5: Be skilled in documentary film making

## **VI Semester: BVOCDMF354: Entrepreneurship and Digital Media**

### **Course outcomes:**

- CO1: Be familiar with the possibilities of taking up digital media entrepreneurship with guided understanding of the dynamics of it.
- CO2: Show familiarity with the aspects of establishment of entrepreneurial firms in their specified area.
- CO3: Be capable of branding and sustaining their own brand identity based on effective client pitches and approaches.
- CO4: Be familiar with global and national standards of digital media.

## **VI Semester: BVOCDMFP355: Practical-Entertainment Media Production**

### **Course Outcomes:**

- CO1: Show expertise in entertainment media production
- CO2: Gain practical understanding of Soap opera productions
- CO3: Be familiar with comprehensive exposure of Planning and production design of Nonfiction shows
- CO4: Be skilled in Fiction and Nonfiction Practical production

## **VI Semester: BVOCDMFP356: Practical-Entrepreneurship Prospects in Digital Media**

### **Course outcomes:**

- CO1: Show an understanding of entrepreneurship prospects and ability to conceptualize a start-up through identification of a niche.
- CO2: Develop an ability to strategically design and present a start-up plan.
- CO3: Demonstrate an expertise in dealing with clients, comprehending client mentality and obtaining feedback.
- CO4: Show an ability to manage a digital media firm with real-time crisis management circumstances, budget challenges and development prospects.

## **VI Semester: BVOCDMFP357: Practical Project-Movie Production and Marketing**

### **Course Outcomes:**

- CO1: Develop knowledge of practically implementation of each production process of a movie
- CO2: Be able to produce complete feature length movie
- CO3: Explore digital media and other platforms to market their film
- CO4: Show expertise in movie launch and marketing
- CO5: Demonstrate the quality of a Professional film maker

## **F (2)**

### **Retail and Supply Chain Management**

#### **I Semester: BVOCRS101: Retail Management**

##### **Course outcomes:**

- CO1: Understand basic concepts of retail
- CO2: Be familiar with various types of retailing and how it works
- CO3: Show familiarity with retail sector how strategy and planning can be done
- CO4: Be able to know regarding location, its selection and other aspects related to location.

#### **I Semester: BVOCRS102: Organizational Behavior**

##### **Course outcomes:**

- CO1: Show an understanding of organization behavior
- CO2: Be aware of individual behavior
- CO3: Show familiarity with attitudes, values and ethics which will help them in their working life
- CO4: Comprehend concepts like motivation, learning and also how to handle stress.

#### **I Semester: BVOCRS103: Marketing Management**

##### **Course outcomes:**

- CO1: Know about marketing and how target marketing can be done.
- CO2: Understand micro and macro environment of marketing and also how demand can be forecasted.
- CO3: Make product planning and process to develop new product
- CO4: Develop clear ideas about dynamics of digital marketing in current market scenario.

## **I Semester: BVOCRSP104: Fundamentals of Visual Merchandising**

### **Course outcomes:**

- CO1: Know about basics of visual merchandising and its components
- CO2: Be familiar with display and its types and rules.
- CO3: Know about signage and its types and about mannequins
- CO4: Be able to prepare planogram with all its information.

## **I Semester: BVOCRSP105: Retail Selling Skills**

### **Course outcomes:**

- CO1: Learn various selling skills
- CO2: Adopt manners, Etiquettes, Communication and customer dealing skills that are needed in retail sector
- CO3: Learn about conversational skills including telephone etiquettes and stress management
- CO4: Develop an awareness about development in retail sector and about developing relationship with customers.

## **II Semester: BVOCRS151: Business Organization and Management**

### **Course outcomes:**

- CO1: Know about different forms of business organizations and its benefits and limitations.
- CO2: Show an understanding about partnership business and rights and duties of partners and also about Joint Stock Company
- CO3: Learn about incorporation of Joint Stock Company.
- CO4: Be familiar with the objectives of business combination and also about finance and its sources.

## **II Semester: BVOCRS152: Supply Chain Management**

### **Course Outcomes:**

- CO1: Be aware of the basics about supply chain management and also about international logistics and supply chain management.
- CO2: Show an understanding about Key Supply Chain Business Processes.
- CO3: Be able to manage purchasing and supplier management.
- CO4: Be skilled in the dynamics of supply chain with the support of IT.

## **II Semester: BVOCRSP153: Market Research**

### **Course outcomes:**

- CO1: Develop basic knowledge about market research.
- CO2: Be able to do research design and will be in a position to collect primary and secondary data.
- CO3: Be in a position to measure and scale in market research and prepare Questionnaire, Data processing and tabulation
- CO4: Be able to conduct market research.

## **II Semester: BVOCRSP154: Fundamental of Accounting**

### **Course outcomes:**

- CO1: Show an understanding about accounting and preparing trial balance.
- CO2: Be capable of preparing journal, Ledger and Subsidiary Books.
- CO3: Be capable of preparing bank reconciliation statement.
- CO4: Show capability of making entries related to hire purchase.

## **II Semester: BVOCRSP205: Tactics of Retail Business**

### **Course Outcomes:**

- CO1: Develop tactics to encourage impulse buying.
- CO2: Be able to calculate conversion rate at both online and off line.
- CO3: Exhibit skills in negotiations involved in retailing.
- CO4: Be aware of maintaining security of store and maintaining health and safety of both employees and staff.

## **III Semester: BVOCRS 201: Principles of Management**

### **Course outcome:**

- CO1: Be aware of various concepts of management and also process of management
- CO2: Show familiarity with various schools of management thought.
- CO3: Be aware of various functions of management.
- CO4: Show an understanding of how authority and responsibility works in management.

### **III Semester: BVOCRS 202: Human Resource Management.**

#### **Course outcomes:**

- CO1: Be aware of HR works, its role and functions.
- CO2: Show improved knowledge about recruitment and its sources and also about selection.
- CO3: Be aware of performance appraisal, Promotion, Demotion is done.
- CO4: Develop knowledge about wage and salary administration.

### **III Semester: BVOCRSP 203: Advertising and Brand Management**

#### **Course outcomes:**

- CO1: Be aware of various implications that need to be kept in mind while preparing advertisements.
- CO2: Gain basic knowledge about advertisement media and its selection.
- CO3: Be skilled to create advertisement design and the way to execute it.
- CO4: Demonstrate an ability to create a brand of their own with logo.

### **III Semester: BVOCRSP-204:Customer Relationship Management**

#### **Course outcomes:**

- CO1: Show the skills to attract and retain customers.
- CO2: Be able to build loyalty with company and strategies to acquire customers.
- CO3: Learn to cultivate relationship with customers and will learn about E-CRM.
- CO4: Be skilled to manage customer data and CRM implementation.

### **III Semester: BVOCRSP-205: Computer Applications in Retail**

#### **Course outcomes:**

- CO1: Gain knowledge about computer hardware and software.
- CO2: Show expertise in handling word processing.
- CO3: Be skilled to work on spread sheet.
- CO4: Comprehend complete knowledge about power point presentation.

### **IV Semester: BVOCRS-251:Business Statistics**

#### **Course outcomes:**

- CO1: Be aware of statistics, its scope and limitations.
- CO2: Be able to collect, classify and tabulate statistical data.
- CO3: Gain basic knowledge about measure of central tendency.
- CO4: Be in position to calculate simple correlation and regression.

#### **IV Semester: BVOCRS-252: Inventory Management**

##### **Course outcomes:**

- CO1: Develop knowledge about inventory and its control and importance.
- CO2: Learn to maintain safety stocks, forecast future requirements and plan materials required.
- CO3: Be aware of if the company should make or buy form outside or outsource.
- CO4: Show the ability to classify different types of goods and tracking the paper life of goods.

#### **IV Semester: BVOCRSP-253: Elements of Cost Accounting**

##### **Course outcomes:**

- CO1: Be in a position to prepare cost account.
- CO2: Be skilled to calculate cost-volume profit analysis and profit volume ratio.
- CO3: Develop knowledge to prepare cost sheet.
- CO4: Demonstrate an ability to classify various overheads based on its functions and also classify to analyze cash flow.

#### **IV Semester: BVOCRSP-254: Store Design And Layout**

##### **Course outcomes:**

- CO1: Be capable of analyzing trade area.
- CO2: Be able to choose retail location.
- CO3: Design the store independently.
- CO4: Individually plan fixtures, planograms, and circulation plans.

#### **IV Semester: BVOCRS-301:International Retailing**

##### **Course outcomes:**

- CO1: Know about international marketing and will be in a position to do its marketing research.
- CO2: Beware of the tactics of how a retail can be made global and will be able to assess international retail environment.
- CO3: Be in a position to select retail market by proper analyzing and will be able to asses various challenges faced by global retailers.
- CO4: Develop proper knowledge to compete in foreign market.



#### **IV Semester: BVOCRSP-255: Packing and Packaging Management**

##### **Course outcomes:**

- CO1: Develop enough knowledge about packaging and its types.
- CO2: Be familiar with consumer packaging and codes used in packaging.
- CO3: Be skilled in various packing considerations.

#### **V Semester: BVOCRS-302: Business Ethics**

##### **Course outcomes:**

- CO1: Gain clear picture of business ethics and its principles.
- CO2: Exhibit ethical decision making skills in business.
- CO3: Show the skills in ethics management.
- CO4: Be familiar with the ethics to be followed at various functional areas.

#### **V Semester: BVOCRS: 303: E Commerce**

##### **Course outcomes:**

- CO1: Develop clear picture of E-Commerce.
- CO2: Be familiar with technology used in E-Commerce.
- CO3: Show familiarity with electronic payment system used in E-Commerce.
- CO4: Be skilled in E-Marketing and E-Security the essentials in E-commerce.

#### **V Semester: BVOCRS304: Warehouse Management**

##### **Course outcomes:**

- CO1: Show an understanding about warehousing and its needs.
- CO2: Be aware of the role of warehousing in retail.
- CO3: Be skilled in strategic aspects of warehousing and implementation of technology in warehouse.
- CO4: Be able to measure performance of material handling systems.

#### **V Semester: BVOCRSP305: Business communication**

##### **Course outcomes:**

- CO1: Understand communication and its importance in management.
- CO2: Be able to make perfect oral and written communication.
- CO3: Be in a position to write good business reports and letters and to present.
- CO4: Show effective skills in employment and group communication.

## **V Semester: BVOCRSP306:Financial Management**

### **Course outcomes:**

- CO1: Learn basics of financial management.
- CO2: Be aware of debts and equities.
- CO3: Show familiarity with financial concepts like ROI, ERR etc.
- CO4: Beware of the issues of shares and debentures and about stock exchange.

## **V Semester: BVOCRSP307:Entrepreneurship Development**

### **Course outcomes:**

- CO1: Gain clear picture of entrepreneur and its importance.
- CO2: Be in a position to develop a business plan.
- CO3: Know all formalities to start a new business.
- CO4: Independently prepare a project report.

## **VI Semester: BVOCRS351: Export And Import – Policies And Procedures**

### **Course outcomes:**

- CO1: Be aware of international trade.
- CO2: Be skilled in documentation required for export.
- CO3: Show the knowledge of foreign trade policies.
- CO4: Be knowledgeable about export order processing and also import policies.

## **VI Semester: BVOCRS352:Logistics Management**

### **Course outcomes:**

- CO1: Be familiar with logistics and its objectives
- CO2: Show the skills in logistics management.
- CO3: Demonstrate an ability in forming logistic strategy.
- CO4: Be skilled in outsourcing of logistics.

## **VI Semester: BVOCRS353: Corporate Law**

### **Course outcomes:**

- CO1: Show an understanding of the concept company and its various kinds.
- CO2: Be aware of how a company can be incorporated and formed.
- CO3: Show familiarity with shares and debentures and their kinds/ types.
- CO4: Be familiar with the procedures to be a member of a company.

## **VI Semester: BVOCRS354:Transportation and Distribution Management**

### **Course outcomes:**

- CO1: Be in position to design distribution channels.
- CO2: Independently plan distribution network.
- CO3: Can select proper models of transportation.
- CO4: Be in a position to take decision regarding transportation routing.

## **VI Semester: BVOCRSP355:Consumer Behavior**

### **Course outcomes:**

- CO1: Be able to study buying behavior of consumer.
- CO2: Know how a consumer will make buying decision.
- CO3: Be aware of how market can be segmented based on consumer behavior.
- CO4: Be familiar with the consumer's post purchase behavior.

## **VI Semester: BVOCRS356: Goods and Service Tax**

### **Course outcomes:**

- CO1: Be familiar with types of GST and also basic schemes of GST.
- CO2: Be aware of aggregate turnover, taxable turnover and rates of GST.
- CO3: Be in a position to compute taxable value and tax liability including Reverse Charge.
- CO4: Gain knowledge of the importance of registering under GST.

## **VI Semester: BVOCRS357: Project**

### **Course outcomes:**

- CO1: Exhibit skills in carrying out the Projects in any Business/Industrial/Govt./Service organization.

## **F (3)**

### **Application and Software Development**

#### **I Semester: BVOCAS101: Introduction to Python Programming**

##### **Course outcomes:**

- CO1: Examine python syntax and semantics and be fluent in the use of python flow control and functions.
- CO2: Demonstrate proficiency in handling strings and file systems.
- CO3: Create, run and manipulate python programs using core data structures like lists, dictionaries and use regular expressions.
- CO4: Interpret the concepts of object-oriented programming as used in python
- CO5: Implement exemplary applications related to network programming, web services and databases in python

#### **I Semester: BVOCAS102: Introduction to Internet Programming**

##### **Course outcomes:**

- CO1: Adapt html and css syntax and semantics to build web pages.
- CO2: Construct and visually format tables and forms using html and css
- CO3: Develop client-side scripts using JavaScript and server-side scripts using php to generate and display the contents dynamically.
- CO4: Appraise the principles of object oriented development using php
- CO5: Inspect JavaScript frameworks like jquery and backbone which facilitates developer to focus on core features

## **I Semester: BVOCASP103: Introduction to Python Programming Laboratory**

### **Course outcomes:**

- CO1: Be skilled in the basics of python programming
- CO2: Be skilled in decision making and functions in python
- CO3: Install and run the python interpreter
- CO4: Create and execute python programs
- CO5: Understand the concepts of file i/o
- CO6: Be able to read data from a text file using python

## **I Semester: BVOCASP104: Introduction to Internet Programming Laboratory**

### **Course outcomes:**

- CO1: Design a basic web site using html and css to demonstrate responsive web design.
- CO2: Implement static or dynamic web pages with validation using java script objects by applying different event handling mechanism

## **I Semester: BVOCASP105: Basic Computer Skills Project**

### **Course outcomes:**

- CO1: Understand and identify the models, components of a computer along with its connections, operating system concepts along with internet operation
- CO2: Demonstrate skills using word processor
- CO3: Demonstrate skills using spreadsheet presentation
- CO4: Demonstrate skills using presentation

## **II Semester: BVOCAS151: Introduction To Web Programming Using Xml, Php**

### **Course outcomes:**

- CO1: Discuss the fundamentals of web and concept of xhtml.
- CO2: Describe different concepts of java script and xhtml documents and construct dynamic documents with java script.
- CO3: Describe xml using the user defined tags, dtd, namespaces and schemas with simple programs
- CO4: Discuss the concepts of php with associated programs
- CO5: Discuss different ways to access the database through the web using examples.  
Discuss various server based software using different technologies

## **II Semester: BVOCAS152: database management systems**

### **Course outcomes:**

- CO1: Identify, analyze and define database objects, enforce integrity constraints on a database using rdbms.
- CO2: Use structured query language (sql) for database manipulation.
- CO3: Design and build simple database systems develop application to interact with databases

## **II Semester: BVOCASP153: Web Programming Laboratory**

### **Course outcomes:**

- CO1: Describe xml using the user defined tags, dtd, namespaces and schemas with simple programs.
- CO2: Discuss the concepts of php with associated programs
- CO3: Discuss different ways to access the database through the web using examples.  
Discuss various server based software using different technologies

## **II Semester: BVOCASP154: Database Management Systems Laboratory**

### **Course outcomes:**

- CO1: Create, update and query on the database.
- CO2: Demonstrate the working of different concepts of dbms
- CO3: Implement, analyze and evaluate the project developed for an application

## **II Semester: BVOCASP155: Computer Programming Project**

### **Course outcomes:**

- CO1: Write algorithms, flowcharts and program for simple problems.
- CO2: Correct syntax and logical errors to execute a program.
- CO3: Write iterative and wherever possible recursive programs
- CO4: Demonstrate use of functions, arrays, strings and structures in problem solving

## **III Semester: BVOCAS201: Python for Data Science**

### **Course outcomes:**

- CO1: Advanced concepts of python like writing python scripts.
- CO2: Sequence and file operations in python.
- CO3: Use libraries like pandas, numpy, matplotlib, scikit, and master the concepts like python machine learning, scripts, and sequence

## **III Semester: BVOCAS202: Object Oriented Programming with Java**

### **Course outcomes:**

- CO1: Understand how to install and use a good java development environment.
- CO2: Use an integrated development environment to write, compile, run, and test simple object- oriented java programs
- CO3: Demonstrate basic problem solving skills: analyzing problems, modeling a problem as a system of objects, creating algorithms, and implementing models and algorithms in an object- oriented computer language
- CO4: Read and make elementary modifications to java programs that solve real-world problems

## **III Semester: BVOCASP203: Object Oriented Programming with Java Laboratory**

### **Course outcomes:**

- CO1: Identify classes, objects, members of a class and relationships among them needed for a specific problem

- CO2: Write java application programs using oop principles and proper program structuring
- CO3: Demonstrate the concepts of polymorphism and inheritance
- CO4: Write java programs to implement error-handling techniques using exception handling.
- CO5: Understand and apply object oriented features and java concepts

### **III Semester: BVOCASP204: Python For Data Science Laboratory**

#### **Course outcomes:**

- CO1: Advanced concepts of python like writing python scripts.
- CO2: Sequence and file operations in python.
- CO3: Use libraries like pandas, numpy, matplotlib, scikit, and master the concepts like python machine learning, scripts, and sequence

### **III Semester: BVOCASP205: Kotlin Programming Project**

#### **Course outcomes:**

- CO1: Develop skills to use android studio to build apps.
- CO2: Run app on a device or in the emulator
- CO3: Be skilled to add interactive buttons.
- CO4: Build app functionality and ui
- CO5: Tackle databases and apis
- CO6: Perform unit testing
- CO7: Fix bugs



## **Semester IV: BVOCAS251: Mobile Application Development**

### **Course outcomes:**

- CO1: Create, test and debug android application by setting up android development environment
- CO2: Implement adaptive, responsive user interfaces that work across a wide range of devices.
- CO3: Infer long running tasks and background work in android applications
- CO4: Demonstrate methods in storing, sharing and retrieving data in android applications
- CO5: Analyze performance of android applications and understand the role of permissions and security
- CO6: Describe the steps involved in publishing android application to share with the world

## **Semester IV: BVOCAS252: Introduction to go Programming**

### **Course outcomes:**

- CO1: Learn go fundamentals and apply them in real world scenarios
- CO2: Get to grip with advanced features like go language and concurrency
- CO3: Understand and develop your knowledge of programming fundamentals
- CO4: Build up a knowledge foundation for more advanced programming languages
- CO5: Learn the language behind the super popular docker technology
- CO6: Everything you need to get up and go!

## **Semester IV: BVOCASP253: Mobile Application Development Laboratory**

### **Course outcomes:**

- CO1: Apply essential android programming concepts.
- CO2: Develop various android applications related to layouts & rich uses interactive interfaces
- CO3: Gain knowledge concerning mobile operating systems and their architecture
- CO4: Recognize and setup a mobile device and application run time environment
- CO5: Be able to setup programming tools for a mobile application developer (for selected modern mobile platforms)
- CO6: Understands the need for continuous improvement of his/her skills due to the rapidly changing environment of mobile devices

## **Semester IV: BVOCASP254: Introduction to go Programming Laboratory**

### **Course outcomes:**

- CO1: Understand the fundamentals of go programming language.
- CO2: Make your own stand-alone command-line apps or scripts network and web servers.
- CO3: Boost your hire ability through innovative and independent learning.
- CO4: Understand and develop your knowledge of programming fundamentals
- CO5: Build up a knowledge foundation for more advanced programming languages

## **Semester IV: BVOCASP255: Data Structures and Applications Project**

### **Course outcomes:**

- CO1: Use different types of data structures, operations and algorithms
- CO2: Apply searching and sorting operations on files
- CO3: Use stack, queue, lists, trees and graphs in problem solving
- CO4: Implement all data structures in a high-level language for problem solving.
- CO5: Analyze and compare various linear and non-linear data structures
- CO6: Code, debug and demonstrate the working nature of different types of data structures and their applications
- CO7: Implement, analyze and evaluate the searching and sorting algorithms
- CO8: Choose the appropriate data structure for solving real world problems

## **Semester V: BVOCAS301: ASP .NET Core Programming**

### **Course outcomes:**

- CO1: Learn about ms.net framework developed by Microsoft.
- CO2: Be able to using xml in c#.net specifically ado.net and sql server
- CO3: Be able to understand use of c# basics, objects and types, inheritance
- CO4: Develop, implement and creating applications with c#.
- CO5: Develop, implement, and demonstrate component services, threading, remoting, windows services, web
- CO6: Understand and be able to explain security in the .Net framework and employment in the net.

## **Semester V: BVOCAS302: Machine Learning with Python**

### **Course outcomes:**

- CO1: Show an ability to identify the characteristics of datasets and compare the trivial data and big data for various applications.
- CO2: Exhibit an Ability to select and implement machine learning techniques and computing environment that are suitable for the applications under consideration.
- CO3: Demonstrate an ability to solve problems associated with batch learning and online learning, and the big data characteristics such as high dimensionality, dynamically growing data and in particular scalability issues.
- CO4: Understand and apply scaling up machine learning techniques and associated computing techniques and technologies.
- CO5: Recognize and implement various ways of selecting suitable model parameters for different machine learning techniques.
- CO6: Be able to integrate machine learning libraries and mathematical and statistical tools with modern technologies like hadoop and mapreduce

## **Semester V: BVOCAS303: Unix and Shell Programming**

### **Course outcomes:**

- CO1: Describe the architecture and features of unix operating system and distinguish it from other operating system
- CO2: Demonstrate unix commands for file handling and process control
- CO3: Write regular expressions for pattern matching and apply them to various filters for a specific task
- CO4: Analyze a given problem and apply requisite facets of shell programming in order to devise a shell script to solve the problem

## **Semester V: BVOCASP305: Machine Learning with Python Laboratory**

### **Course outcomes:**

- CO1: Understand complexity of machine learning algorithms and their limitations;
- CO2: Understand modern notions in data analysis oriented computing
- CO3: Be capable of confidently applying common machine learning algorithms in practice and implementing the iron;
- CO4: Be capable of performing distributed computations;
- CO5: Be capable of performing experiments in machine learning using real-world data

## **Semester V: BVOCASP306: Unix and Shell Programming Laboratory**

### **Course outcomes:**

- CO1: Demonstrate the working of basic commands of unix environment including file processing
- CO2: Apply regular expression to perform pattern matching using utilities like grep, sed and awk.
- CO3: Implement unix commands/ system calls to demonstrate process management
- CO4: Demonstrate the usage of different shell commands, variable and awk filtering to the given problem.
- CO5: Develop shell scripts for developing the simple applications to the given problem

## **Semester V: BVOCAS304: Devops for Developers**

### **Course outcomes:**

- CO1: Be able to continuous development, continuous testing, and configuration management, including continuous integration and continuous deployment and finally continuous monitoring of the software throughout its devops development lifecycle.

## **Semester V: BVOCASP307: Devops for Developers Project**

### **Course outcomes:**

- CO1: Continuous development, continuous testing, configuration management, including continuous integration and continuous deployment and finally continuous monitoring of the software throughout its devops development lifecycle.

## **Semester VI: BVOCAS351: Internet of Things**

### **Course outcomes:**

- CO1: Interpret the impact and challenges posed by iot networks leading to new architectural models.
- CO2: Compare and contrast the deployment of smart objects and the technologies to connect them to network.
- CO3: Appraise the role of iot protocols for efficient network communication.
- CO4: Elaborate the need for data analytics and security in iot
- CO5: Illustrate different sensor technologies for sensing real world entities and identify the applications of iot in industry.

## **Semester VI: BVOCAS352: Computer Networks**

### **Course outcomes:**

- CO1: Explain principles of application layer protocols
- CO2: Recognize transport layer services and infer udp and tcp protocols
- CO3: Classify routers, ip and routing algorithms in network layer
- CO4: Understand the wireless and mobile networks covering ieee802.11 standard
- CO5: Describe multimedia networking and network management

## **Semester VI: BVOCAS353: Ethical Hacking Techniques**

### **Course outcomes:**

- CO1: Gain knowledge about ethical hacking and penetration testing.
- CO2: Learn about various types of attacks, attackers and security threats and vulnerabilities present in the computer system.
- CO3: Examine how social engineering can be done by attacker to gain access of useful & sensitive information about the confidential data
- CO4: Learn about cryptography and basics of web application attacks.
- CO5: Gain knowledge of the tools, techniques and ethical issues like lytoface the domain of ethical hacking and ethical responsibilities

## **Semester VI: BVOCAS354: Nosql Database**

### **Course outcomes:**

- CO1: Define, compare and use the four types of nosql databases (document-oriented, keyvalue pairs, column-oriented and graph).
- CO2: Demonstrate an understanding of the detailed architecture, define objects, load data, query data and performance tune column-oriented nosql databases.
- CO3: Explain the detailed architecture, define objects, load data, query data and performance tune document-oriented nosql databases

## **Semester VI: BVOCAS355: Project Work**

### **Course Outcomes:**

- CO1: Have the ability to obtain and use the mathematical, scientific and engineering-based knowledge towards an in-depth technical efficacy in the field of software development.
- CO2: Have the ability to identify, conclude and resolve software development related issues.
- CO3: Able to design a system, component or process to fulfill the needs in the actual constraints like surroundings, community, ethic and cyber security.
- CO4: Understand and be determined towards professional responsibility and ethics.
- CO5: Have the ability to design and conduct experiments, as well as analyze and translate data.
- CO6: Have the ability to use the method, skills and modern software development equipment in software engineering practices.
- CO7: Have the ability to function effectively as individuals and group members, along with the ability to lead and manage.
- CO8: Have the ability to identify and be in possession of lifelong learning capability.

## **Bachelor of Vocational Programme: Language Papers: ENGLISH**

### **Title of the Paper: ENL131: Speech Skills**

#### **Course Outcomes:**

- CO1: Demonstrate the familiarity with the English sounds
- CO2: Show awareness of the subtle differences and the use English sounds accurately
- CO3: Neutralize mother tongue influence and use English intelligibly in conversation
- CO4: Use the language effectively for basic communicational purposes

### **Title of the Paper: ENL181: Writing Skills**

#### **Course Outcomes:**

- CO1: Understand the mechanism of different modes of general and academic writing.
- CO2: Make professional presentation.
- CO3: Demonstrate the reference skills, taking notes, referring and documenting data and materials.
- CO4: Show higher level of critical thinking and sharpen their accuracy in writing.

### **Title of the Paper: ENL231: Business English**

#### **Course Outcomes:**

- CO1: Use English language in business contexts
- CO2: Show familiarity with the differences and similarities in the spoken and written expressions.
- CO3: Use verbal and nonverbal expressions in business situations.
- CO4: Demonstrate language skills in workplaces

### **Title of the Paper: ENL281: Reading Literature**

#### **Course Outcomes:**

- CO1: Demonstrate the ability to analyze, both verbally and in writing, a text by applying various approaches the theme, plot, character, setting, etc.
- CO2: Demonstrate the ability to use research to support original textual interpretations
- CO3: Demonstrate the ability, both verbally and in writing, to relate texts with historical time periods and/or specific historical events.
- CO4: Demonstrate the ability to recognize and understand major literary movements.

## **Language Papers: HINDI**

### **Title of the Paper: Hindi Prose and Essays – Paper I**

#### **Course Outcomes:**

- CO1: Be aware of the Hindi writers through stories.
- CO2: Show an awareness of the Hindi writers through essays
- CO3: Exhibit skills in basic Hindi grammar
- CO4: Demonstrate skills in translation/Translate sentence

### **Title of the Paper: Hindi Prose and Essays – Paper II**

#### **Course Outcomes:**

- CO1: Be aware of the Hindi writers through stories.
- CO2: Show an awareness of the Hindi writers through essays
- CO3: Exhibit skills in basic Hindi grammar
- CO4: Demonstrate skills in translation/Translate sentence

### **Title of the Paper: Hindi Prose and Essays – Paper III**

#### **Course Outcomes:**

- CO1: Be aware of ancient and modern poets
- CO2: Show an awareness of famous writers writing dramas
- CO3: Exhibit skills in Basic Hindi grammar
- CO4: Demonstrate skills in Hindi terminology

### **Title of the Paper: Hindi Prose and Essays – Paper IV**

#### **Course Outcomes:**

- CO1: Be aware of ancient and modern poets
- CO2: Show an awareness of famous writers writing dramas
- CO3: Exhibit skills in Basic Hindi grammar
- CO4: Demonstrate skills in Hindi terminology



**Language Papers: KANNADA**

**Title of the Paper:** ΠΑΕΑΙΩΑ ΠΑΑΑ, ΞΑΨΑΖΑ ΟΑΥΑΣ ΑΑΑΑΟΑΕΑ ΠΑΕΑΙΩΑΥΑ%Α CzΑΑΑΙΑΑΕΑ-ΠΑΕΑΙΩΑ ΑΑμΑ ΞΑωΠΕ-1

¥À®±ÄÄW:

CO1 : PÀÈÀÒÒÀ "ÁµÉÀÀÀÈÀÀÀ ±ÀÀZÀV<sup>a</sup>ÁV NzÀÀà, §ÉÀÀÀÀà PË±<sup>®</sup>àÈÀÀÀ UÀ½APÉsAr gÀàÀÀZÀÀ

CO2 : Á»vâzÀ ««zÀ ¥ÁPÁgÀU¼À CjªÀiªÀÀsrAPÉsrgÀªªÀÀzÀÀ

CO3: PÁEÁIqÀ „Á»vÁizÀ ««zÀ ¥APÁgÁUÁ%ÁZÀ PÁXÉ, PÀÁEÁ, ¥ÁÁÁÀ PÁXÁEÁ, «eÁÍEÁ vÉÁREÁ, ÁÀQÍAvÁ, ¥Á\$AZÀ, «É\$ÁZÀ \$gÉOÁ, eÉszÁvÁZÀ ¥APÁgÁUÁ%ÁEÁÁ \$ÁÁÁZÀ, ¥Á\$AZÀ ÁÀÁAQÁEÉ, «±ÉÁµÁUÉ, ZÁZÉÖ, UÁÁÁ¥ÁÁ ZÁZÉÖ eÉszÁvÁZÁÁÁÁUÁ%Á ÁÁ\$®PÁ CxÉÉÖAPÉ\$ÁÁÁÁÁZÁÁ. F ÁÁ\$®PÁ ÁÁµÉ, „Á»vÁÁ ÁÁUÁ\$ ÁÁÁÁÁEÁ PÉÁÁ®UÁ%ÁEÁÁ ÁÁEÇAPÉ\$ÁÁÁÁÁÁÁ.

CO4: Á»vÀà NÇÈÀ eÁŒÈÀ=ÀÈÀß ÀzÁðvÀäPÀ ¥àjĀPÉ:UAY½UÉ C%ÀªÀrAPÉS%ÄÄiaÀ ÁªÄÄxÄð "É%ÉAPÉSArgÄÄ=ÄzÄÄ

**Title of the Paper:** ΠΑΕΑΙΘΑ ΠΑΕΑΙΘΑ, ΠΑΕΙ, ΝΕΑΡΕΑ ΘΑΥΑΣ, ΑΑΑΘΑΕΑ ΠΑΕΑΙΘΑΥΑ%Α CzΑΑΑΑΑΑ -ΠΑΕΑΙΘΑ ΉΑΜΑ  
 ΞΑΩΠΕ-2

¥À®±ÄÄW:

CO1: PÀÈÀqà "ÁμÉÁÀÀÈÀÀ ZÉÁÁV NzÀÀà, ŠgÉÁÀÀÀà eÁÙÈàÀÈÀÀ òÉsAÇgÀààÁzÀÀ

CO2: fÀqÀÀUÀÈÀìqÀ Á»vÀìZÀ ««zÀ ¥ÀPÁgÀUÀ%À CjªÀì ¢ÀÀsrAPÉsArGÀÀÀìZÀÀ

[illegible]

CO4: Á»VÀìZÀ àÀÀS®PÀ fÄàÈÀ àÄË®UÀÀÈÀÄÄÀ §zÄÄQÈÀ9è C%àÀr ÀÈsArGÀàÀìZÄÄ

CO5: Á»vázà àäĒ®:uA%ÀÈÄÄ ãäÄPÁ9ÄÈ šzÄÄQUÉ CĚÄÄ→ÄÄPésArgÄÄäÄzÄÄ

**Title of the Paper:** PÀÈÀìqÀ PÀVÉ, VÉÁRÉÀ, ÀÀÀÀÀÀÀÀ PÈ±À®UÀ%À CzÀÀÀÀÀÀ –PÀÈÀìqÀ “ÁμÁ ¥ÀWPÉ–3

¥À®±ÀÄw:

CO1: PÀÈÀìqÀ “ÁμÉÀÀÀÀÀÀ ZÉÉÁìV NzÀÀÀÀ, ŠgÉÀÀÀÀÀÀ eÁÜÉÀÀÀÀÀÀ ÀÉsACgÀÀÀÀìZÀÀ

CO2: ÈÀqÀÀUÀÈÀìqÀ „Á»VÀìZÀ ««ZÀ ¥ÀPÁgÀUÀ%À CjÀÀÀ ÀÀsrAPÉsArgÀÀÀÀìZÀÀ

CO3: ÀÉs,ÀUÀÈÀìqÀ ¥ÀPÁgÀUÀ%ÀZÀ PÀVÉ, PÀÀÀÀÀ, PÀxÀÈÀ PÀÀÀÀÀ, CAPÀt ŠgÉÀ, ¥Àj,ÀgÀ VÉÁRÉÀ, ¥ÀjZÀÀÀÀ VÉÁRÉÀ, ÀÀÀÀÀÀÀÀ PÀÈÀìqÀZÀ VÉÁRÉÀUÀ%À NzÀÀ, «±ÉÁμÀUÁ PÈ±À® “É%ÉAPÉsArgÀÀÀÀìZÀÀ

CO4: „Á»VÀìZÀ ÀÀs®PÀ fÀÀÀÀÀ ÀÀÈ®ìUÀ%ÀÀÀÀ ŠZÀÀQÉÀ9: C¼ÀÀÀ,ÀPÉsArgÀÀÀÀìZÀÀ

CO5: „Á»VÀìZÀ ÀÀÈ®ìUÀ%ÀÀÀÀ ÀÀÀPÁ9ÀÈÀ ŠZÀÀQÉÀ CÈÀ—ÀAPÉsArgÀÀÀÀìZÀÀ

**Title of the Paper:** PÀÈÀìqÀ PÁÀÀ, VÉÁRÉÀUÀ%ÀÀ ÀÁUÀs gÀs¥ÁAvàgÀUÀ%À CzÀÀÀÀÀÀ –PÀÈÀìqÀ “ÁμÁ ¥ÀWPÉ–4

¥À®±ÀÄw:

CO1: PÀÈÀìqÀ “ÁμÉÀÀÀÀÀÀ ZÉÉÁìV NzÀÀÀÀ, ŠgÉÀÀÀÀÀÀ eÁÜÉÀÀÀÀÀÀ ÀÉsACgÀÀÀÀìZÀÀ

CO2: ÈÀqÀÀUÀÈÀìqÀ „Á»VÀìZÀ ««ZÀ ¥ÀPÁgÀUÀ%À CjÀÀÀ ÀÀsrAPÉsArgÀÀÀÀìZÀÀ

CO3: ÀÉs,ÀUÀÈÀìqÀ ¥ÀPÁgÀUÀ%ÀZÀ PÀVÉ, PÀÀÀÀÀ, PÀxÀÈÀ PÀÀÀÀÀ, ¥Àj,ÀgÀ VÉÁRÉÀ, ¥ÀjZÀÀÀÀ VÉÁRÉÀ, CAPÀt ŠgÉÀ, gÀs¥ÁAvàjvÀ “ÁÈÀ9 ÉÁìPÀ, ¥ÀÀÀÀÀ, ÀÁ,À ÉÁìPÀUÀ%À NzÀÀ, «±ÉÁμÀUÁ PÈ±À® “É%ÉAPÉsArgÀÀÀÀìZÀÀ

CO4: PÀxÀÈÀ PÀÀÀÀÀ ÀÁUÀs PÀxÉUÀ%ÀÀÀÀ DzÀj,ÀZÀ gÀs¥ÁAvàjvÀ ÀÀÀZÀjUÀ%ÀÀÀÀ CÈÀÀ,ÀjA ¥ÀÀÀÀÀ, gÀs¥ÀPÀ, PÀxÉ, VÉÁRÉÀ, ¥ÀŠAZÀ, «ÀÀÀÀÀÀ ÀÉszÀVÁZÀ ÀÈdÉÀZÀ® ŠgÉÀtUÉÀÀÀÀÀÀ ÀÉÀÈUÀsrAPÉsArgÀÀÀÀìZÀÀ

CO5: „Á»VÀìZÀ ÀÀs®PÀ fÀÀÀÀÀ ÀÀÈ®ìUÀ%ÀÀÀÀ ŠZÀÀQÉÀ9: C¼ÀÀÀ,ÀPÉsArgÀÀÀÀìZÀÀ

CO6: „Á»VÀìZÀ ÀÀÈ®ìUÀ%ÀÀÀÀ ÀÀÀPÁ9ÀÈÀ ŠZÀÀQÉÀ CÈÀ—ÀAPÉsArgÀÀÀÀìZÀÀ

# **PART – III**

## **POST GRADUATION**

## 4. PROGRAMME OUTCOMES

### **Programme outcomes of the TWO year Post Graduation Degree Higher Education Programmes identified by the College.**

Students of all post graduate general degree Programmes at the time of graduation will be empowered towards:

- PO1. **Critical Thinking:** Take informed actions after identifying the assumptions that frame their thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at their ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- PO2. **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make sense of the world by connecting people, ideas, books, media and technology.
- PO3. **Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- PO4. **Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- PO5. **Ethics:** Recognize different value systems including their own, understand the moral dimensions of their decisions, and accept responsibility for them.
- PO6. **Environment and Sustainability:** Understand and exhibit consciousness of the issues of environmental contexts and sustainable development.
- PO7. **Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.
- PO8. **Problem Solving:** Identify, formulate, research literature, and analyze complex Socio-Political, socio-economic, socio-cultural problems reaching substantiated conclusions using first principles of mathematics, natural sciences, management and entrepreneurial skills.
- PO9. **Project management and finance:** Demonstrate knowledge and understanding of the finance and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO10. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO11. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO12. **Design/development of solutions:** Design solutions for complex socio-economic problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

## **5. PROGRAMME SPECIFIC OUTCOMES**

### **1. Faculty of PG Studies in Psychology: PGPSY055**

#### **Programme Specific Outcomes:**

- PSO1: Apply the relevant qualitative and quantitative research methods while carrying out research or project works.
- PSO2: Have hands on experience of carrying out counseling sessions and confidently use the techniques while dealing with the clients
- PSO3: Widened knowledge about developing and using the psychological assessment tests and tools on the basis of the needs of the group or person.
- PSO4: Comprehensive understanding of the biological basis of human behavior
- PSO5: Thorough knowledge about the psychopathology among children, adolescents and adults.
- PSO6: Improved skills of human resource development and management.
- PSO7: Extended understanding about the cognitive abilities and processes among human beings.
- PSO8: Broad understanding of the applicability of different psychotherapeutic techniques.

### **2. Faculty of PG Studies in Social Work: PGSW028**

#### **Programme Specific Outcomes:**

- PSO1: Exhibit trained social work professional quality copious to deliver their services with their specialized methods, techniques and strategies.
- PSO2: Demonstrate an ability to continue the profession with inter-disciplinary knowledge.
- PSO3: Be aware of opportunities to work with diverse segment of people in their improvement.
- PSO4: Show an ability to work for the cause of deprived, under privileged and disadvantaged sections of the society and be equipped through appropriate practice.
- PSO5: Demonstrate increased knowledge and skills in association with practice based research.
- PSO6: Involve in collaborative campaign to understand human problems better.
- PSO7: Render service to those who are in need of it.
- PSO8: Initiate human service organizations that bring objectively precise transformation.

### **3. Faculty of PG Studies in Commerce: PGCOM040**

#### **Programme Specific outcomes:**

- PSO1: Deliver a value based commitment in the core areas of business operations and adapt to changing business environments.
- PSO2: Be able to apply the fundamental, conceptual and advanced practical knowledge to take effective business decisions and also modelling, designing, implementing and evaluating the computing system in the areas of commerce, trade and industry.
- PSO3: Comprehend, analyze and interpret the market gaps in the broad areas of investment finance, human resource management, marketing and the other allied areas.
- PSO4: Associate and pursue research in the specialised area of interest.
- PSO5: Venture into leadership prospects or entrepreneurial innovations by tapping the market opportunities.
- PSO6: Contribute to reduce societal problems by creating awareness among the peer groups, consumer groups and other voluntary groups.
- PSO7: Exhibit team spirit, skills and acquaint with learning organization to achieve career goals.

### **4. Faculty of PG Studies in Commerce (Insurance and Bank Management): PGIBM041**

#### **Programme Specific Outcomes:**

- PSO1: Deliver a value based commitment in the core areas of Insurance and banking operations and adapts to changing business environments.
- PSO2: Apply the fundamental, conceptual and advanced practical knowledge to take effective business decisions and also modelling, designing, implementing and evaluating the computing system in the areas of commerce, trade and industry.
- PSO3: Comprehend, analyze and interpret market gaps in the broad areas of Bank management, General and Life Insurance, Portfolio Management, Risk Management in banks and allied.
- PSO4: Associate and pursue research in the specialised area of interest.
- PSO5: Venture into leadership entrepreneurial innovations tapping market opportunities.
- PSO6: Contribute to reduce services sector related problems by creating awareness among the peer groups, consumer groups and other voluntary groups.
- PSO7: Exhibit team spirit, skills and acquaint with learning organization to achieve career goals.

## **5. Faculty of PG Studies in Journalism and Mass Communication: PGJOUR027**

### **Programme Specific Outcomes:**

- PSO1: Be equipped with adequate knowledge of mass communication and journalism
- PSO2: Be prepared for communication research, teaching and media profession.
- PSO3: Show familiarity with evaluation of the emerging communication technology.
- PSO4: Exhibit social consciousness and concern through media as their profession.
- PSO5: Be able to arrange discourses on mass media and their experiments.
- PSO6: Show an ability to inculcate pioneering academic proficiency.
- PSO7: Show the familiarity with improved communication skills.

## **6. Faculty of PG Studies in Chemistry: PGCHE052**

### **Programme Specific Outcomes:**

- PSO1: Show the ability to plan, design and carry out scientific experiments as well as accurately record and analyze the results of such experiments.
- PSO2: Exhibit skills in problem solving, critical thinking and analytical reasoning as applied to scientific problems.
- PSO3: Demonstrate the ability to apply green chemistry techniques in daily life.
- PSO4: Be able to appreciate the central role of chemistry in our society and use this as a basis for ethical behavior in issues facing chemists including an understanding of safe handling of chemicals, environmental issues and key issues facing our society in energy, health and medicine.
- PSO5: Exhibit competency to take up teaching profession, industrial jobs.
- PSO6: Show an interest to start small scale industries with the available resources.
- PSO7: Develop an aspiration to clear the UGC/NET/KSET and Civil services examinations.

## **7. Faculty of PG Studies in Organic Chemistry: PGOCHE053**

### **Programme Specific Outcomes:**

- PSO1: Show an ability to design, and carry out synthetic reactions, isolation and purification of products.
- PSO2: Exhibit skills in problem solving, critical thinking and analytical reasoning.
- PSO3: Effectively apply gained knowledge in smooth functioning of daily life.
- PSO4: Show competency in teaching profession, industrial jobs..
- PSO5: Show an ability to start small scale industries with the available resources.
- PSO6: Accurately record and analyze the results of synthetic works.
- PSO7: Behave ethically in issues that chemists face including an understanding of safe handling of chemicals, and issues like environmental, energy, health and medicine.
- PSO8: Successfully clear exams like UPSC, UGC etc.

## **8. Faculty of PG Studies in Biotechnology: PGBTY051**

### **Programme Specific Outcomes:**

- PSO1: Demonstrate bimolecular knowledge and analytical skills at an advanced level.
- PSO2: Show an ability to qualify various range of positions in industry, consultancy, education and public administration.
- PSO3: Undertake further Study on biotechnology and its related disciplines such as genetics, animal biotechnology, food technology, plant biotechnology, etc.
- PSO4: Show an ability to work in the capacities such as Sr. Associate Scientist, Research Biochemist, Sr. Regulatory Affairs Associate, Biotechnology Researcher, Associate Engineer, Quality Controller and Regional Manager and in industries such as Pharmaceuticals, Manufacturing, Biotechnology, Research Organizations, and FMCG besides colleges and universities as teachers.
- PSO5: Undertake research projects on the leading edge in a chosen Specialized area of biotechnology, based on own research experience from a master's project and international literature.
- PSO6: Show skills to qualify for research/ for further education in a doctoral program.



## **9. Faculty of PG Studies in Physics:PGPHY054**

### **Programme Specific Outcomes:**

- PSO1: Become employable acquiring understanding of the subject.
- PSO2: Be familiar with good laboratory skills.
- PSO3: Appreciate, understand and use the scientific method in the solving of problems.
- PSO4: Show the specialized knowledge & skill sets through choice of softcore papers
- PSO5: Be readily available manpower for various public and private sector industries.
- PSO6: Exhibit familiarity with hands on experience in research and equipment handling.
- PSO7: Show an interest to become young physicists to showcase their talents in the field of Physics.
- PSO8: Demonstrate the ability to establish start-ups in the field of application of Physics for the progress of the society.

## **10. Faculty of PG Studies in Statistics:PGSTAT056**

### **Programme Specific Outcomes:**

- PSO1: Show the ability to use the knowledge on theoretical foundations for the development of various statistical concepts and procedures.
- PSO2: Develop technical skills in probability modelling and statistical inference for the practical application of statistical methods in their future employment.
- PSO3: Be able to find solutions to real world problems by applying quantitative modelling and data analysis techniques.
- PSO4: Exhibit the skills in the use of computational and statistical software to develop and execute various statistical techniques and statistical computing algorithms.
- PSO5: Demonstrate theoretical knowledge and applications of parametric, semi-parametric and non-parametric testing procedures.
- PSO6: Design experiments and surveys with a view of providing solutions to real life problems.
- PSO7: Be able to use statistical reasoning, formulate a problem in statistical terms, perform exploratory analysis of data, and carry out a variety of advanced inferential procedures.
- PSO8: Be familiar with tackling emerging problems through applications of statistics.

## **11. Faculty of PG Studies in Economics:PGECO025**

### **Programme Specific Outcomes:**

- PSO1: Demonstrate adequate knowledge about the state of economy.
- PSO2: Show preparedness to face and manage in a competitive world.
- PSO3: Be able to view the emerging communication technology
- PSO4: Show an interest to undertake social and economic responsibilities through their commitment and competence
- PSO5: Be equipped to compare and contrast the urban and rural life to evolve proper remedies to reduce the divide.
- PSO6: Exhibit willingness to undertake search-oriented experimental studies in the field of Economics
- PSO7: Be able to meet the requirements of competitive world.
- PSO8: Show readiness to apply the learnt skills in assessments and other crucial situations for better economic measures.

## **12. Faculty of PG Studies in English:PGENG026**

### **Programme Specific Outcomes:**

- PSO1: Demonstrate an appropriate level of expertise in literary history, literary theory, and rhetoric
- PSO2: Demonstrate high-level proficiency in literary research and in the synthesis of research
- PSO3: Demonstrate critical and analytical skills in the interpretation and evaluation of literary texts
- PSO4: Reflect a command of written academic English, including the abilities to organise and present material in a cogent fashion, formulate and defend original arguments, employ effectively the language of their discipline and write under time constraints.
- PSO5: Demonstrate competency in teaching English to nonnative speakers of English
- PSO6: Show the expertise in linguistics- phonetics, semiotics, Phonology, morphology
- PSO7: Undertake the translation project from English language in to the mother tongues
- PSO8: Undertake independently research projects either survey based or theory based

## **Part -1V**

### **Course Outcome- PG Courses**

**Faculty of PG Studies in Social Work (M.S.W)**

**Title of the paper: SWSH401 – Social Work Profession – History, Philosophy and Ideologies**

**Course Outcomes:**

- CO1: Exhibit knowledge of the history and philosophy of social work and its emergence as a Profession.
- CO2: Examine the various ideological influences on social work profession.
- CO3: Understand the importance of professional values, functions, goals and ethics in both macro and micro social work practice

**Title of the paper: SWSH402 – Social Case Work**

**Course Outcomes:**

- CO1: Understand casework as method of social work.
- CO2: Develop the ability to establish and sustain a working relationship with individuals.
- CO3: Understand the process of working with individuals.
- CO4: Develop the ability to analyze and assess the components & process of case work.

**Title of the paper: SWSH403 – Social Group Work**

**Course Outcomes:**

- CO1: Understand group work as a method of social work.
- CO2: Develop the ability to establish and sustain a working relationship with groups.
- CO3: Understand the process of working with groups.
- CO4: Develop the ability to analyze and assess the components and process of group work.

**Title of the paper: SWSS 404 A – Dynamics of Human Behavior**

**Course Outcomes:**

- CO1: Understand the basic concepts of psychology relevant to social work practice.
- CO2: Understand human needs and human behavior.
- CO3: Gain an understanding of nature, basis of human growth and personality development.
- CO4: Develop sensitivity towards needs, development tasks and health status.

**Title of the paper: SWSS404B – Communication Skills for Social Work Practice**

**Course Outcomes:**

- CO1: Exhibit an understanding of various methods of communication and competence to use the same.
- CO2: Understand and appreciate the role of communication in development.
- CO3: Demonstrate knowledge of different forms of communication and their use in the process of development and social change.
- CO4: Show the development and ability to assess critically the utilization of communication media by the government and non – government sectors in the process of development.

**Title of the paper: SWSH405 – Social Work Practicum I**

**Course Outcomes:**

- CO1: Demonstrate familiarity with the basics of social work practicum, home visits, survey and Case Work.

**Title of the paper: SWSH451 – Community Organization and Practice**

**Course Outcomes:**

- CO1: Understand the concepts related to the work with communities and processes involved.
- CO2: Exhibit an understanding of the use and practice of community organization in various fields of social work.
- CO3: Exhibit knowledge about the role of a social worker in social change and social development.
- CO4: Be familiar with the emerging trends and experiments in community organization.
- CO5: Show familiarity with various aspects of social action as an effective method of social work.

**Title of the paper: SWSH452 – Social Welfare Administration and Social Action**

**Course Outcomes:**

- CO1: Acquire knowledge of social welfare administration and its emergence as a profession.
- CO2: Show an understanding of the importance of functions, principles and various issues of social welfare administration and its practical aspects.
- CO3: Be able to examine various issues related with the establishment of service organizations and social policies on vulnerable groups.

**Title of the paper: SWSH453 – Social Work Research and Statistics**

**Course Outcomes:**

- CO1: Understand the role of research as a method of social work profession.
- CO2: Demonstrate research knowledge and skills to be able to undertake independent research projects.
- CO3: Be familiar with some of the basic statistical technique and their application in field of social work research and social work practice.

**Title of the paper: SWSS454 A – Social Work in Various Settings**

**Course Outcomes:**

- CO1: Understand social work as a method of social service.
- CO2: Understand the various settings of social work.
- CO3: Show the knowledge of the process of working in various settings.

**Title of the paper: SWSS454 B – Human Rights**

**Course Outcomes:**

- CO1: Show awareness of the relationship between social work and human rights.
- CO2: Be able to provide the basic information about constitutional provisions for human rights.
- CO3: Be able to sensitize social work professionals about right based approach.

**Title of the paper: SWSS455 A – Social Work Perspectives for Social Science**

**Course Outcomes:**

- CO1: Develop an understanding of basic concepts of social sciences relevant to social work.
- CO2: Be able to apply this knowledge to work in the society.
- CO3: Understand the existing social system of the country and develop ability to analyze the same.

**Title of the paper: SWSS455 B – Social Policy and Planning**

**Course Outcomes:**

- CO1: Show the knowledge of the systems and process of policy formulation and social planning in India.
- CO2: Be able to analyze the systems of policy formulation and planning as well as development plans and programmes.
- CO3: Identify linkages between social needs, problems, development issues and policies.
- CO4: Locate strategies and skills necessary to facilitate policy change and social development, with a view to reinforce values of social justice, gender justice and equality and ecological sustainability.

**Title of the paper: SWSH 456 – Social Work Practicum II**

**Course Outcomes:**

CO1: Demonstrate the ability in organizing case work, group work and community organizations through social work camps.

**Title of the paper: SWSH501 – Project Planning and Management**

**Course Outcomes:**

CO1: Show the knowledge and skills required to facilitate participatory project planning and management.

CO2: Develop competency to facilitate processes of participatory planning with varied groups.

CO3: Exhibit values and attitudes that are essential for participatory intervention in society.

**Title of the paper: SWSS502 – Citizen Participation, Good Governance and Local Self Governance (Specialisation - I)**

**Course Outcomes:**

CO1: Recognize the key concept of citizenship, participation and governance institutions.

CO2: Show the understanding of the role of social work in promoting citizen participation in governance and effective functioning of local self-government institutions.



**Title of the paper: SWSS503 – Psychiatric Social Work (Specialisation - II)**

**Course Outcomes:**

- CO1: Show an understanding of the concept of mental health and mental illness.
- CO2: Understand the signs and symptoms, etiology, diagnosis and treatment of mental health problems, approaches and skills required.
- CO3: Demonstrate the knowledge of historical background of psychiatric social work in India and abroad and understand the nature of psychiatric social work services.
- CO4: Be able to understand the need for and methods of community mental health promotion.

**Title of the paper: SWSS504 – Human Resource Management and Human Resource Development (Specialisation - III)**

**Course Outcomes:**

- CO1: Develop a knowledge and understanding of the nature and functions of personnel management.
- CO2: Demonstrate the knowledge of modern aspects in human resource development.

**Title of the paper: SWSS 505 –Tribal and Rural Community Development (Specialisation - I)**

**Course Outcomes:**

- CO1: Show an understanding of the concept and problems of rural community and tribal community.
- CO2: Be skilled in community development approaches and programs/schemes for rural and tribal areas.
- CO3: Be familiar with administration and panchyat raj system and functions.

**Title of the paper:SWSS506 – Medical Social Work (Specialisation - II)**

**Course Outcomes:**

- CO1: Develop a holistic and integrated concept of health.
- CO2: Be able to assess and analyze health problems and related issues.
- CO3: Develop skills to handle the psycho – social problems associated with health problems.

**Title of the paper: SWSS507 – Labor Legislations Part – I (Specialisation - III)**

**Course Outcomes:**

- CO1: Show an increased knowledge of industrial jurisprudence and need of labor legislations.
- CO2: Exhibit the knowledge about labor administration and mechanisms.
- CO3: Demonstrate develop skills to deal with legislative functions.

**Title of the paper: SWSS508A - Family and Child Welfare**

**Course Outcomes:**

- CO1: Understand normative and changing norms of the institution of family and variations in them with reference to the family social ecology.
- CO2: Encourage study of the process of family socialization.
- CO3: Understand the need and importance of child welfare.

**Title of the paper: SWSS508 B – Management Concepts**

**Course Outcomes:**

- CO1: Be familiar with management concepts and its evolution.
- CO2: Show an understanding of management functions and skills required in its practice.
- CO3: Exhibit a knowledge of modern trends in management.

**Title of the paper: SWSS509 A – Management of Non-government Organizations**

**Course Outcomes:**

- CO1: Develop an understanding about the role of NGOs in societal development.
- CO2: Develop knowledge about management of NGOs.
- CO3: Show the ability to identify collaboration strategy between NGOs and government institutions.

**Title of the paper: SWSS509B – Disaster Management**

**Course Outcomes:**

- CO1: Understand ecosystem equilibrium and disequilibrium.
- CO2: Show developed skills to analyze factors contributing to disaster.
- CO3: Develop an understanding of the process of disaster- management.
- CO4: Exhibit skills in disaster management.
- CO5: Develop an understanding of the role of social worker in disaster management.

**Title of the paper: SWSH510 – Social Work Practicum - III**

**Course Outcomes:**

- CO1: Practice profession according to their specializations.
- CO2: Be equipped with practical exposure from industries, hospitals and non-Government Organizations.

**Title of the paper: SWSS551-Urban Community Development(Specialisation - I)**

**Course Outcomes:**

- CO1: Be familiar with various theories on urban life, problems and development.
- CO2: Develop an understanding of factors associated with urbanization and its consequences.
- CO3: Develop a critical understanding of urban problems.
- CO4: Be sensitive and committed to work with the urban poor.

**Title of the paper: SWSS552–Geriatric Social Work (Specialisation - II)**

**Course Outcomes:**

- CO1: Understand and analyze the policies, laws and programmes that affect the senior citizens.
- CO2: Develop sensitivity to the factors that makes the older persons more vulnerable.
- CO3: Demonstrate skills in developmental programmes of ageing.

**Title of the paper: SWSS553 – Labor Legislations Part - II**

**Course Outcomes:**

- CO1: Be familiar with the knowledge of industrial jurisprudence and need of labor legislations.
- CO2: Show the knowledge about labor administration and mechanisms.
- CO3: Exhibit skills to deal with legislative functions.

**Title of the paper: SWSS554 – Sustainable Development and Social Entrepreneurship (Specialisation - I)**

**Course Outcomes:**

- CO1: Be able to orient professionals about the importance of sustainable development.
- CO2: Demonstrate entrepreneurship skills.

**Title of the paper: SWSS555 – Therapeutic Counselling (Specialisation - II)**

**Course Outcomes:**

- CO1: Develop knowledge and skills of different psycho – therapeutic theories.
- CO2: Be able to utilize different theories in relation to individuals, families and groups.
- CO3: Develop competence to select and integrate therapeutic counseling skills when working with different client groups in different settings.

**Title of the paper: SWSS 556 -Labor Welfare and Industrial Relations  
(Specialisation - III)**

**Course Outcomes:**

- CO1: Gain knowledge about concept, philosophy and evaluation of labor welfare.
- CO2: Understand the components of labor welfare and their management in the overall context of human resource development.
- CO3: Understand the dynamics of union management relationships in the industry.

**Title of the paper: SWSS557 A – Rehabilitation and After Care Services**

**Course Outcomes:**

- CO1: Understand the concept of handicap, rehabilitation and the scope for practice.
- CO2: Identify the specific client categories requiring the rehabilitation services, problem specificity and rehabilitation service interventions.
- CO3: Acquaint oneself with different rehabilitation settings, different therapeutic approaches to rehabilitation process.
- CO4: Acquire the social work skills adapted to facilitate the process of rehabilitation, the rights and legal provisions provided for differently able people and assimilate the knowledge of social work practice to disability specific client service.

**Title of the paper: SWSS557B – Organizational Behavior and Organizational Development**

**Course Outcomes:**

- CO1: Exhibit knowledge about individual, group and organizational dynamics and their consequences.
- CO2: Make clear the concepts and approaches that help in developing models or systems that support human ingenuity.
- CO3: Acquaint the students with the knowledge of theories and practices that governs human behavior at work.
- CO4: Help the learner understand the value and worth of human resources in an organization.
- CO5: Understand the application of Transactional Analysis in several areas of employee management.

**Title of the paper: SWSH558 – Research Project**

**Course Outcomes:**

- CO1: Develop ability to conceptualize, formulate & conduct simple research projects.
- CO2: Learn to make informal assessment & judicious use of research studies & findings on a particular subject/area.
- CO3: Develop skills for use of library & documentation services for research.
- CO4: Develop attitudes favourable to the judicious integration of practice, research & theory. Develop ability for logical reasoning & critical analysis.

**Title of the paper: SWSH559 – Social Work Practicum - IV**

**Course Outcomes:**

- CO1: Show a full-fledged knowledge in their specializations.

## **Faculty of PG Studies and Research in Psychology (M.Sc.)**

### **Title of the Paper: PYH401 - Cognitive Processes**

#### **Course Outcomes:**

- CO1: Understand the significance of cognitive processes like attention, memory.
- CO2: Gain knowledge on the importance of imagery and cognitive map and neuropsychological aspects in cognitive psychology.
- CO3: Understand language comprehension and production such as understanding spoken language, the cognitive task involved in writing, speaking and also bilingualism.
- CO4: Understand problem-solving and its approach, and measuring of creativity, and decision-making aspects.

### **Title of the paper: PYH402 -Physiological Psychology**

#### **Course Outcomes:**

- CO1: Understand brain and behavior relationships.
- CO2: Will be equipped with different methods of studying the brain and behavior relationship.
- CO3: Understand the dynamics of higher mental abilities and motivational behavior.

### **Title of the paper: PYH403 -Psychometry**

#### **Course Outcomes:**

- CO1: Equipped with knowledge about validity and reliability of the tests.
- CO2: Know the significance of standardization of the tests.
- CO3: Understand the evaluation of different psychological tests.
- CO4: Develop simple psychological tests.

**Title of the paper: PYH404 -Educational Psychology**

**Course Outcomes:**

- CO1: Show familiarity with the basic theories of educational psychology.
- CO2: Gain knowledge about educating special children.
- CO3: Learn to apply various theories of learning in teaching.
- CO4: Understand effective teaching, learning and evaluation

**Title of the paper: PYH451 - Quantitative Research Methods**

**Course Outcomes:**

- CO1: Gain knowledge about the characteristics and different types of research and variables as well.
- CO2: Understand how to conduct research using appropriate sources like a review of the literature, problem or aim, research questions, types of hypothesis and sampling principles, the method of data collection.
- CO3: Understand the designs of research such as experimental design, quasi-experimental design, group design, and single subject design.
- CO4: Understand how to prepare the research proposal like using different research formats such as APA, MLA etc and steps in writing project report.

**Title of the paper: PYH452 - Statistics in Psychology**

**Course Outcomes:**

- CO1: Be well versed with the application of different statistical methods used in testing quantitative data.
- CO2: Exhibit hands on training in using software for analyzing statistical data.
- CO3: Demonstrate different parametric and non-parametric analysis techniques.



**Title of the paper: PYH453 - Counselling Skills**

**Course Outcomes:**

- CO1: Understand the theoretical base for counselling.
- CO2: Comprehend the various stages involved in the process of counselling.
- CO3: Manages various barriers of counselling.
- CO4: Be acquainted with the roles, functions and qualities of an effective counsellor.

**Title of the paper: PYS454 - Qualitative Research methods**

**Course Outcomes:**

- CO1: Develop and understand qualitative research and also get to know how it is different from quantitative research.
- CO2: Be aware of various methods of data collection regarding qualitative research methods.
- CO3: Show the skills in the analysis of qualitative data.
- CO4: Demonstrate mixed methods of qualitative research.

**Title of the paper: PYS457 - Positive Psychology**

**Course Outcomes:**

- CO1: Be oriented about human strengths, optimism, happiness, hope and resiliency.
- CO2: Get sensitized about human character strengths and virtues.
- CO3: Learn practical ways of using one's character strengths in promoting and maintaining well-being and happiness.

**Title of the paper: PYH501 - Adult Psychopathology**

**Course Outcomes:**

- CO1: Demonstrate the ability in classification of mental disorders and know about organic mental disorders.
- CO2: Show an improved knowledge about schizophrenia, mood disorders and other psychotic disorders.
- CO3: Learn about neurotic stress related and somatoform disorders.
- CO4: Learn about disorders of personality, sleep and sex.

**Title of the paper: PYH502 - Psychotherapy**

**Course Outcomes:**

- CO1: Show the knowledge of classical psychotherapeutic techniques.
- CO2: Understand the changes and trends in psychotherapeutic techniques
- CO3: Be oriented about creative art therapies and modern psychotherapeutic techniques.

**Title of the paper: PYH503 - Personality Theories**

**Course Outcomes:**

- CO1: Understand the forces and factors that shape personality.
- CO2: Comprehend different perspectives of personality.
- CO3: Show ability to comprehend the importance of different personality theories.
- CO4: Exhibit the skills to compare and contrast different personality theories, and relate it to the current changing trends.

**Title of the paper: PYS504 -Psychological Disorders of Childhood and Adolescence**

**Course Outcomes:**

- CO1: Understand mental retardation and specific developmental disorders of scholastic skills.
- CO2: Understand pervasive developmental disorders.
- CO3: Be familiar with behavioral and emotional disorders.
- CO4: Be aware of Tic disorders and feeding, elimination disorders.

**Title of the paper: PYS507-Human Resource Management and Development (HRM &D)**

**Course Outcomes:**

- CO1: Develop systematically the techniques of manpower for strategic change.
- CO2: Thoroughly comprehend the vital aspects of human resource management.
- CO3: Exhibit training techniques to improve any company's growth.
- CO4: Develop various modules for people working in different sectors.

**Title of the paper: PYH551 -Behavior Modification**

**Course Outcomes:**

- CO1: Demonstrate behavior modification techniques based on classical conditioning.
- CO2: Exhibit behavior modification techniques based on operant conditioning.
- CO3: Show assertiveness training, modelling and self-control techniques, and cognitive therapies.

**Title of the paper: PYH552 - Areas of Counselling**

**Course Outcomes:**

- CO1: Understand the importance of counseling in terms of vocational, occupational and career counseling and also how to resolve the issues in career counselling.
- CO2: Be familiar with the role of counseling in the couple relationship, marriage, pre-marital, and also how to deal with the sensitive issues in counselling.
- CO3: Show familiarity with the importance of counseling for the dealing with family problem/issues and also the importance of family therapy in family counselling.
- CO4: Demonstrate the importance of counseling for the aged and terminally ill and for grief counseling.

**Title of the paper: PYS555 - Social Psychology**

**Course Outcomes:**

- CO1: Be familiar with the research areas and new trends in social psychology.
- CO2: Demonstrate the understanding of one's own social behavior and improved understanding of others social behavior.
- CO3: Understand the application of social psychology concepts in different areas.

**Title of the paper: PYH557 - Dissertation/Project**

**Course Outcomes:**

- CO1: Exhibit familiarity with the research methodology and expertise in the area of their research (Dissertation Project).

## **Faculty of PG Studies in Journalism and Mass Communication (M.A)**

### **Title of the Paper: JMC H 1.1 Development of Media**

#### **Course Outcomes:**

- CO1: Disseminate with the basic information about all the media.
- CO2: Recognize the importance of media in the contemporary era.
- CO3: Expand practical knowledge about different media.
- CO4: Extend a rational framework to know the prominence of media in national context.

### **Title of the Paper: JMC H 1.2 Reporting for Media**

#### **Course Outcomes:**

- CO1: Categorize the role of the newspaper reporter and his duties.
- CO2: Distinguish how the newspaper newsroom operates.
- CO3: Evaluate the sources of information presented for newsgathering.
- CO4: Express the news values and to widen proficiency in writing basic hard news leads using correct attribution.

### **Title of the Paper: JMC H 1.3 Editing and Design**

#### **Course Outcomes:**

- CO1: Experiment with the art of editing
- CO2: Practice to acquire skills to make news attractive and readable.
- CO3: Record to make page with unique patterns.
- CO4: Apply the structure of newsroom culture and responsibilities.

### **Title of the Paper: JMC S 1.1 Advertising**

#### **Course Outcomes:**

- CO1: Identify the model of advertising communication.
- CO2: Recognize the different ways of classifying audiences for advertising.
- CO3: Evaluate the key roles of advertising as a business process.
- CO4: Experiment the role of advertisements plays in its process.

### **Title of the Paper: JMC S 1.2 Introduction to Journalism**

#### **Course Outcomes:**

- CO1: Discuss the prime focus on history of Kannada journalism.
- CO2: Illustrate the contributions of renowned journalists.
- CO3: Record the basic information about contemporary trends of Kannada journalism.
- CO4: Interpret the various Kannada newspapers and magazines history.

### **Title of the Paper: JMC H 2.1 Communication Research Methods**

#### **Course Outcomes:**

- CO1: Analyze the basic concept of research.
- CO2: Evaluate the importance of research in media education.
- CO3: Sensitize the students to communication research.
- CO4: Practice independently conceives and executes research projects.

### **Title of the Paper: JMC H 2.2 Media Law and Ethics**

#### **Course Outcomes:**

- CO1: Be acquainted with the basic principles underlying Indian Constitution and Media law.
- CO2: Discuss the importance of Media law in the contemporary era.
- CO3: Apply practical knowledge about different laws.
- CO4: Develop a coherent framework to know the prominence of media law in National context.

### **Title of the Paper: JMC H 2.3 Theories of Mass Communication**

#### **Course Outcomes:**

- CO1: Apply communication process and its patterns in the changing situation.
- CO2: Analyze the well-developed body of media theory.
- CO3: Evaluate the validity of theories in future.
- CO4: Examine analytical skills that will allow them to view the media critically.

### **Title of the Paper: JMC S 2.1 Photo Journalism**

#### **Course Outcomes:**

- CO1: Develop a sense of photography.
- CO2: Use camera and know its applications.
- CO3: Be familiar with the photography techniques.
- CO4: Practice photography as a profession

### **Title of the Paper: JMC S 2.2 Non-Fiction Writing**

#### **Course Outcomes:**

- CO1: Discuss the characteristics of feature stories.
- CO2: Discover tailor ideas to audience.
- CO3: Evaluate variety of research techniques in gathering information.
- CO4: Prepare stories for newspapers, magazines or web.

### **Title of the Paper: JMC O E 2.1 Communication Skills (CBCS)**

#### **Course Outcomes:**

- CO1: Demonstrate competency in communication skills related to production and presentation of messages in multiple formats.
- CO2: Demonstrate competency in critical thinking skills related to the analysis, interpretation, and criticism of messages.
- CO3: Analyze multiple theoretical perspectives and diverse intellectual traditions in communication.
- CO4: Create competency in the analysis and practice of ethical communication.

### **Title of the Paper: JMC H 3.1 Corporate Communication**

#### **Course Outcomes:**

- CO1: Describe the structural identity and professional facet of the corporate world.
- CO2: Exhibit strategic circumstantial expertise in framing perfect communication plan.
- CO3: Develop good command over organizational communication skillful techniques.
- CO4: Create competence to grab professional opportunities in various fields.

### **Title of the Paper: JMC H 3.2 Film Direction and Production**

#### **Course Outcomes:**

- CO1: Operate an extensive body of amateur work.
- CO2: Apply production and postproduction skills.
- CO3: Appraise the rudiments of narrative filmmaking in the short forms.
- CO4: Evaluate various skills in cinematic practice.

### **Title of the Paper: JMC S 3.1 Media Marketing**

#### **Course Outcomes:**

- CO1: Explain the core concepts of media marketing.
- CO2: Evaluate the role of media marketing in business and society.
- CO3: Interpret the knowledge of social, legal, ethical and technological forces on media marketing decision-making.
- CO4: Appraise the global nature of media marketing and appropriate measures to operate effectively in international settings.



### **Title of the Paper: JMC S 3.2 Business Journalism**

#### **Course Outcomes:**

- CO1: Explain the basic knowledge of economic system and media coverage.
- CO2: Be skilled in analyzing economic issues and industrial aspects.
- CO3: Apply efficiency in understanding basic features of business journalism.
- CO4: Evaluate various economic issues covered by media.

### **Title of the Paper: JMC S 3.3 Media and Environment**

#### **Course Outcomes:**

- CO1: Be able to criticize anti-environment phenomena of the world.
- CO2: Generate basic information about environment related issues.
- CO3: Identify prime focus on global trends related to environment sector.
- CO4: Exhibit creativity in media to safeguard environment.

### **Title of the Paper: JMC O E 3.1 Writing for Media**

#### **Course Outcomes:**

- CO1: Practice core newsgathering, writing, production, presentation and technical skills to a professional standard across all media platforms.
- CO2: Employ appropriate technical skills and theoretical knowledge to solve problems associated with creative work.
- CO3: Communicate the idea to the readers with professional effective manner.
- CO4: Interpret the subject and to use different narrative styles to present the story with best possible clarity.

### **Title of the Paper: JMC O E 3.2 India – EU: How We Perceive Each Other**

#### **Course Outcomes:**

- CO1: Students of Science and Social Science have some basic knowledge about Europe and the European Union
- CO2: Current perceptions of India are rooted in the past of India-Europe relations
- CO3: Significance of understanding cultural difference to effective policies on diversity management
- CO4: Some issues in relation to Indians resident in the EU

### **Title of the Paper: JMC H 4.1 New Media Technology**

#### **Course Outcomes:**

- CO1: Develop a sense of new technological innovations.
- CO2: Identify new technologies and its application.
- CO3: Show the ability to support the new software's in media studies.
- CO4: Be able to support the conduct of research in ICT.

### **Title of the Paper: JMC S 4.1 Media Management**

#### **Course Outcomes:**

- CO1: Discuss basic knowledge over contemporary media organizational structures.
- CO2: Systematic understanding of contemporary media management mechanism.
- CO3: Identify prime focus on problems of newspaper organizations, TV channels and film industry.
- CO4: Evaluate marketing strategies of media organizations.

### **Title of the Paper: JMC S 4.2 Radio Broadcasting**

#### **Course Outcomes:**

- CO1: Discuss the importance of Radio Broadcasting in India.
- CO2: Explain the basic terms and concepts of Broadcasting.
- CO3: Illustrate the structure and functioning of the broadcast industry.
- CO4: Exhibit professional manners.

### **Title of the Paper: JMC S 4.3 Television Production**

#### **Course Outcomes:**

- CO1: Discuss the technological aspects of television production.
- CO2: Identify the different modes of broadcasting.
- CO3: Evaluate the basics of television as an effective medium to reach the people.
- CO4: Categorize the difference between variety of editing techniques.

### **Title of the Paper: JMC S 4.4 Folk Media Communication**

#### **Course Outcomes:**

- CO1: Recall the relevance of folk media in modern society.
- CO2: Acquire expertise in various folk media communication.
- CO3: Distinguish various folk-art forms in Karnataka.
- CO4: Identify the problems and prospect of folk artists.

### **Title of the Paper: JMC S 4.5 Development Communication**

#### **Course Outcomes:**

- CO1: The Indian Society, the process of development and the role of communication in it.
- CO2: Upgraded the skills of journalists and to theoretically equip them to deal with the challenges they face in communicating about development and economic issues.
- CO3: Specific national development issues, programmes and projects and the role of Communication.
- CO4: Skills in development of communication material in media like print, radio and TV With understanding of other media like slides, puppetry, posters etc.

### **Title of the Paper: JMC P 4.1 - Dissertation/Project**

#### **Course Outcomes:**

- CO1: Exhibit familiarity with the research methodology and expertise in the area of their research (Dissertation/Project).

## **Faculty of PG Studies in Biotechnology (M.Sc.)**

### **Title of the paper: BTH401 Biochemistry**

#### **Course Outcomes:**

- CO1: Understand chemical reactions and structures of biological molecules essential to life on Earth
- CO2: Demonstrate the theoretical knowledge and practical application of UV/VIS, IR, and NMR spectroscopy, Colorimetry, Turbidometry, Nebulometry, nucleic acid purification, electrophoresis, SDS-PAGE protein electrophoresis, Western blotting, protein purification, Centrifugation.
- CO3: Apply skills with Circular Dichroism, X-ray Diffraction and Radio isotope techniques like GM counter, Liquid scintillation counter and Cerenkov counting and Autoradiography.
- CO4: Be highly conversant about classification of Biomolecules

### **Title of the paper: BTH402 Microbiology**

#### **Course Outcomes:**

- CO1: Explain the microbial world, its beginning with basics of evolution of microorganism on early earth life & its gradual transformation to most resistant forms.
- CO2 : Demonstrate taxonomic grouping of microorganism through conventional & molecular approach and explain properly.
- CO3 : Demonstrate the knowledge of microbial nourishment : respiration, factors affecting growth, measurement of growth, Co-existence of microorganisms as microbial association, structure & life cycle of virus on the basis of viral genomes as dsDNA, ssDNA, ssRNA, dsRNA with few predominant viral form carrying replication in different host such as bacteria, animal, plant.
- CO5: Ability to analyze of the dark side of microbial world that is microbe & host interaction leading to disease is explained with respect to few plant pathogens, animal pathogens etc, Pathogenesis caused by invading bacteria and few secreted microbial products such as toxin resulting in food poisoning and also the role played by micro-organisms in food spoilage, prerequisites contributing to food spoilage.
- CO6 : Suggest remedial measures of preservation of food through various methods.

**Title of the paper: BTH403 Cell Biology**

**Course Outcomes:**

- CO1: Trace and relate the evolution of cells.
- CO2: Show the conversant ability on different organelles present within the cell that has an evolutionary significance with respect to the changing environment, adaptations, improvisation of survival skills and the changing surroundings based on their activities.
- CO3: participate in academic meets or workshops concerning cell signaling, cell interactions.

**Title of the paper: BTS404 Molecular Genetics**

**Course Outcomes:**

- CO1: Explain the inheritance patterns of characters from one generation to another.
- CO2: Show the expertise in Chromosomal mapping or gene mapping.
- CO3: Analyze how modifications of chromosomes aka genes causes diseases in humans and populations.
- CO4: Relate to life the change in a gene could happen all of a sudden in an organisms.

**Title of the paper: BTS405 Bio Analytical Techniques**

**Course Outcomes:**

- CO1: Demonstrate the knowledge of the working principle, instrumentation, and applications of an age old technique, chromatography and also show how this traditional method has been modernized into the present day HPLC, UPLC etc
- CO2: Analyze the working principle, instrumentation and applications of technique of electrophoresis.
- CO3: Apply the principles and methodology of different centrifugation techniques
- CO4: Show the familiarity of the usage of radio isotopes that has marveled modern biology, environment, medicine as well as in routine biological assays.
- CO5: Employ spectroscopy for the identification of unknown compounds in the biological samples.

**Title of the paper: BTH451 Molecular Biology**

**Course Outcomes:**

- CO1: Show the understanding of the basic properties of Nucleic acid and its principle and mechanism of replication in prokaryotes and Eukaryotes.
- CO2 : Explain the role of different type of enzymes and accessory proteins involved in DNA replication.
- CO3 : Analyze the transcription process in prokaryotes and eukaryotes, RNA processing enzymes and modification in different types of RNA in view of translation, regulation of gene expression, DNA damage and types of repair mechanism.
- CO4 : Describe developmental biology in terms of gene action, ribosomal RNA synthesis during cogenesis and molecular genetics of pattern formation.

## **Title of the paper: BTH452 Genetic Engineering**

### **Course Outcomes:**

- CO1: Distinguish between invivo & invitro gene cloning through PCR, and discuss about various components used in PCR, types, & application
- CO2: Show familiarity with the end processing of PCR products to be used for gene cloning experiments.
- CO3: Be skilled in invivo gene cloning, importance of vehicles, availability of different types of vehicles for carrying gene of interest is dealt. Classification of vehicles on the basis of function as cloning vector, expression vector, shuttle vectors are discussed.
- CO4: Show the familiarity with the process of ligation of gene of interest with vector with a prior generation of compatible ends to create rDNA & its transfer to subsequent host followed by screening & selection of recombinant cells.
- CO5: Demonstrate the understanding of the Construction of genomic & cDNA libraries, wide application of genetic engineering in DNA sequencing, finding genetic variations through RFLP,RAPD,AFLP methods, analysis of gene expression methods, comparison of differential expressed transcript.
- CO6: Analyze the translational products and the manipulation of gene expression.

## **Title of the paper: BTS453 Metabolism**

### **Course Outcomes:**

- CO1: Relate the living entities based on the principles of thermodynamics laws
- CO2: Explain the complex reaction while calculating the free energy of a particular reaction.
- CO4: Understand how the energy is stored inside the cell which is readily available whenever needed

**Title of the paper: BTS454 Enzymology**

**Course Outcomes:**

- CO1: Show the familiarity of the basic structures & functions of enzymes & their role in physiology.
- CO2: Explain the diversity of enzymes and their multiple roles in achieving system homeostasis.
- CO3: Apply skills in handling enzymes as key therapeutic ingredients in biotech industries

**Title of the paper: BTS455 Bioethics, IPR and Entrepreneurship**

**Course Outcomes:**

- CO1: Understand the basic problems, methods, and approaches to the field of bioethics. Familiarity with the main ethical theories of bioethics and identify the philosophical components of the public discussion on bioethical issues.
- CO2: Recognize and interpret the theological presuppositions of bioethical questions and appreciate the contribution of religious traditions to the field of bioethics
- CO3: Understand the legal and public policy implications of bioethics and become able to understand the interplay of morality and law both at a general level and in relation to specific bioethical issues
- CO4: Knowledge to acquire the patent and copyright for their innovative works.
- CO5: Apply cutting-edge knowledge and skills in developing captivating products often under considerable time constraints with very limited resources.

**Title of the paper: BTE458 Applications of Biotechnology**

**Course Outcomes:**

- CO1: Demonstrate the principles of tissue culture that relies on totipotency in modern day agriculture, horticulture and medicines.
- CO2: Demonstrate the principles of plant and animal culture, media preparation, asepticity and contamination.
- CO3: Describe the Fertility restoration by means of *In vitro* fertilization and embryo transfer technology.
- CO4: Understand pollution related problems and remedies, various laws, rules & regulations pertaining to pollution.
- CO5: Describe commercial production of various biomolecules, Bt crops, mining etc.



**Title of the paper: BTE459 Recombinant DNA Technology**

**Course Outcomes:**

- CO1: Show the basic knowledge about the rDNA technology and gene cloning -mainly the different factors used in this technique, different enzymes and proper function with respect to the cloning.
- CO2: Explain different gene transfer methods, and their identification by using different detection methods and different methods for gene labelling with respect to their application.
- CO3: Find jobs in industries where different methods of DNA technology is used in various fields.
- CO4: Compare the various methods and apply them in different fields

**Title of the paper: BTH501 Plant Biotechnology**

**Course Outcomes:**

- CO1: Compare the age old and conventional methods of plant breeding which are quiet unsuccessful for feeding the ever-growing populations with the modern technologies for plant improvisation.
- CO2: Apply the nature's rule in plant development in creating micro propagation from different plant parts.
- CO3: Evolve methods for ecological conservation - artificial means, modification of plants

**Title of the paper: BTH502 Animal Biotechnology**

**Course Outcomes:**

- CO1: Show a thorough knowledge of the basics of initiating cell culture by tissue disaggregation and the development of primary culture, characterising primary cell lines, & basic equipment, media, physical factors, asepsis design of lab.
- CO2: Reflect the awareness of large scale culture of cell in Bioreactor for monolayer & suspension culture is studied.
- CO3: Apply cell cultures in different fields like in vitro fertilization, fish cell culture, mollusk culture, glandular cell.
- CO4: Use various transgenic approaches used to improve animal as bioreactor
- CO5: Produce commercially important proteins from animal cell and use gene therapy and mechanism of gene therapy.

**Title of the paper: BTS503 Bioprocess Technology**

**Course Outcomes:**

- CO1: Be aware of bioreactors, design media and optimise process parameters.
- CO2: Explain different types of fermentation and bioreactors.
- CO3: Apply the principles of Bioprocess engineering for designing and analysis of biological reactors for industrially important primary and secondary products.
- CO4: Demonstrate the knowledge of Bioreactor, distillation, tray drying, chemical reactors, heat exchanger, Rheology and downstream processing.
- CO5: Show a sound knowledge of theoretical principles and practical considerations for the industrial production of several chemicals like acids, alcohols, antibiotics and cultivation of Mushroom.

**Title of the paper: BTS504 Microbial Technology**

**Course Outcomes:**

- CO1: Show the familiarity with different types of the microbial products and their essential roles in different fields..
- Co2: Analyze different types of vitamins, organic acids, antibiotics, hormones and other commercially important compounds and their production methods.
- Co3: Apply the skills of commercial production of microbial enzymes, their purification methods, and their proper applications in different fields.
- CO4: Explain different types of polysaccharides produced by the microbes and their proper applications in the different industries.
- CO5: Demonstrate competence of commercial methods to produce different types the microbial products - beverages, different types of the foods and also the production different types of eco-friendly fertilisers and their use to crops as well as the field.

**Title of the paper: BTS505 Biostatistics and Bioinformatics**

**Course Outcomes:**

- CO1: Understand the application, approaches and the significance of statistical analysis in their experiments.
- CO2: Analyze methodologies of statistics and their application in selection of the biological samples.
- CO3: Show the knowledge and awareness of the basic principles and concepts of bioinformatics where biology, computer science and mathematics are closely related.
- CO4: Experiment with the existing software tools effectively to extract information from large databases and to use this information in computer modelling.
- CO5: Demonstrate the problem-solving skills, including the ability to develop new algorithms, an understanding of the intersection of life and information sciences, information theory, gene expression, and database queries.

### **Title of the paper: BTOE508: Industrial Biotechnology**

#### **Course Outcomes:**

- CO1: Analyze the fermentation technology , requirements to fermentation with respect to media composition, strains developments , different screening methods to isolate the desired micro-organisms, media for commercial fermentation .
- CO2: Compare different fermentation processes and different microbes.
- CO3: Show the ability to identify and explain different products of the fermentation and the production methods- organic acids, different therapeutic compounds, antibiotics and their applications.
- CO4: Show the different microbial enzymes in the industrial processing like different metabolic enzymes of the microbes and their proper application in various fields.

### **Title of the paper: BTOE509: Nanotechnology**

#### **Course Outcomes:**

- CO1: Understand the fundamental principles of nanotechnology and their application to biology.
- CO2: Use in academic platforms the concepts of nanotechnology, their application along with engineering and physics to the nano-scale and non-continuum domain.
- CO3: Demonstrate the understanding of the Nano fabrication methods, design processing conditions to engineer functional Nano materials.
- CO4: Evaluate current constraints, such as regulatory, ethical, political, social and economic, encountered when solving problems in living systems.
- CO5: Apply and transfer of interdisciplinary systems and engineering approaches to the field of bio and nanotechnology projects.
- CO6: Evaluate the state-of-the-art characterization methods for Nano materials, and determine Nano material safety and handling methods required during characterization.

**Title of the paper: BTH551 Immunology**

**Course Outcomes:**

- CO1: Analyze and explain the body's functional role in fighting against invading pathogen. in this aspect it discusses various types of immunity like innate, acquired, humoral & cell mediated, effect or mechanism of activated cell in combating invading pathogen.
- CO2: Express how streamlining of antigen from immunogen takes place by defining characteristics of an antigen. Explain the concept of self-tolerance during lymphocyte maturation failing of which leads to auto immune disease.
- CO3: Show the knowledge of the exaggerated levels of immune reaction to a harmless particle leading to hypersensitive reaction, different types.
- CO4: Express a comprehensive knowledge of Synthesis in terms diverse amount of antibodies with varied specificity; antibody gene rearrangement, different classes of antibody with structure & biological function, concept of vaccination, immune function during transplantation.

**Title of the paper: BTS552 Environmental Biotechnology**

**Course Outcomes:**

- CO1: Show the basic and advanced information regarding environmental pollutions, causes and outcomes.
- CO2: Apply the novel techniques using microorganisms and plants to control the pollutions
- CO3: Notice positive changes after usage of organisms for mining and also for mining related issues and compare the scenarios wherein the danger of release of GMOs to the environments.

### **Title of the paper: BTS553 Agricultural Biotechnology**

#### **Course Outcomes:**

- CO1: Demonstrate the Understanding of the principles and the emerging concepts in agricultural biotechnology.
- CO2: Explain the role that microorganisms like *Agro bacterium* plays in producing genetically modified plant crops.
- CO3: Critically evaluate the application of plant and microbial biotechnologies for sustainable agriculture.
- CO4: Discuss and analyze how modern agricultural biotechnology and genetic resources can be harnessed to achieve environmental sustainability.
- CO5: Undertake the modernized farming practices both in plant and animals for betterment in a highly profitable manner.

### **Title of the paper: BTS554 Food Biotechnology**

#### **Course Outcomes:**

- CO1: Identify the different types of fermented foods like, food produced by vegetables, fruits, fish and meat.
- CO2. Show the understanding of the various enzymes used in different methods like enzymes in different industries like baking, dairy and in food and feed- different generic technologies used for preparation of different variety of foods.
- CO3: Demonstrate the basic information about the functional foods with respect to health benefits and different plant phenolic compounds which can bring the health benefits and standards of food authentication with respect to different tests for toxicity testing,
- CO4: Apply the principles and techniques for the food processing, and different biotechnological methods in the production of different foods which includes GM foods
- CO5: Show the awareness of various types of food spoilage by different factors and also the proper methods for their preservation.

**Faculty of PG Studies in Chemistry (M.Sc.)**

**Title of the paper: CHH401: Inorganic Chemistry**

**Course Outcomes:**

- CO1: Understand the structure of ionic and covalent compounds and study of their properties
- CO2: Show the knowledge of industrial and commercial applications of halogens, noble gases and non-aqueous solvents
- CO3: Demonstrate the understanding of organic precipitants and extraction techniques, masking and de-masking techniques, statistical treatment of errors

**Title of the paper: CHH402: Organic Chemistry**

**Course Outcomes:**

- CO1: Explain the bonding in organic molecules, aromatic & non aromatic compounds, addition compounds, effect bonding on properties of acids and bases
- CO2: Analyze reaction mechanism and intermediates, Carbocations, carbanions, free radicals and nitrenes
- CO3: Show the knowledge of Stereochemistry of compounds and their properties – involving C-C, C-S, C-N and C-P bonds

**Title of the paper: CHH403: Physical Chemistry**

**Course Outcomes:**

- CO1: Show familiarity of the concept of entropy, laws of Thermodynamics, Chemical potential and fugacity of molecules
- CO2: Identify and explain the chain reactions, composite reactions, autocatalytic reactions and reactions in solutions including fast reactions
- CO3: know the role of quantum Chemistry in understanding properties of molecules

**Title of the paper: CHS404: Spectroscopy**

**Course Outcomes:**

- CO1: Show a fair understanding of the basics of Microwave and Vibration spectroscopy
- CO2: Understand the Electronic spectra of molecules
- CO3: Demonstrate the Nuclear magnetic applications and study of  $^1\text{H}$ -NMR,  $^{13}\text{C}$ -NMR spectra for identification of organic molecules

**Title of the paper: CHS405: Methods of Analysis**

**Course Outcomes:**

- CO1: Apply Chromatographic techniques for separation of components in a reaction mixture
- CO2: Know about Structural elucidation of crystals, use XRD and Electron Diffraction techniques
- CO3: Apply thermo- analytical methods for identification of samples and radiochemical analysis of samples

**Title of the paper: CHS406: Environmental Chemistry**

**Course Outcomes:**

- CO1: Show the understanding of air pollution, pollutants and their control and safety measures
- CO2: Identify impurities in waste water and their removal
- CO3: Identify toxic and solid pollutants in environment and their treatment

**Title of the paper: CHH451: Advanced Inorganic Chemistry**

**Course Outcomes:**

- CO1: Predict spectral and structural properties of organic and inorganic molecules through symmetry elements and symmetry operation
- CO2: Explain the types of bonds and preparatory methods in boranes, inorganic polymers, cage compounds and metal carbonyls
- CO3: Analyze the electronic structure, oxidation states, extractions and separation of lanthanides and actinides.



**Title of the paper: CHH452: Advanced Organic Chemistry**

**Course Outcomes:**

- CO1: Familiarity of electrophilic and nucleophilic substitution reactions and addition to carbon-carbon, carbon- hetero multiple bonds
- CO2: Demonstrate the free radical substitution reactions, auto oxidations and coupling of alkynes, elimination reactions
- CO3: Explain the heterocyclic compounds with specific reference to the synthesis and reactions. Biologically important heterocycles

**Title of the paper: CHH453: Advanced Physical Chemistry**

**Course Outcomes:**

- CO1: Apply the statistical and irreversible thermodynamics for various forces and phenomena
- CO2: Demonstrate the Knowledge of electrochemistry of solutions, ion-solvent interaction and applications of electrochemistry
- CO3: Find the need for approximate methods for structure-property relationships

**Title of the paper: CHS454: Spectroscopy and Analytical Techniques**

**Course Outcomes:**

- CO1: Express the Understanding of Structural elucidation of species containing unpaired electrons by ESR., NQR, Mossbauer and photoelectron spectroscopic techniques and their applications
- CO2: Show the knowledge of Atomic Absorption Spectrometry, Emission Spectroscopy, Molecular Luminescence Spectroscopy and Light-Scattering methods for detection of metals, particles and particle size
- CO3: Use mass spectrometry in identification of organic compounds and employ Case studies of structural elucidations- UV, IR, NMR and Mass spectral data of compounds

**Title of the paper: CHS455: Chemistry of Biomolecules**

**Course Outcomes:**

- CO1: Show the knowledge of cell structures, structure and functions of lipids and function and role of lipoproteins
- CO2: Identify the role of amino acids, proteins, nucleic acids and enzymes in biological processes
- CO3: Know about monosaccharide's, di, tri and tetra saccharine, polysaccharide s and their functions and degradations

**Title of the paper: CHE456: Chemistry of Life**

**Course Outcomes:**

- CO1: Show an awareness on cosmetics, perfumery, fats, oils, soaps and detergents in daily life
- CO2: Recognize the importance of balanced diet, food adulteration and addends
- CO3: Understand the color chemistry, role of fertilizer, insecticides and pesticides.

**Title of the paper: CHE457: Environmental Chemistry**

**Course Outcomes:**

- CO1: Study the air pollution, pollutants and their control and safety measures
- CO2: Identify the impurities in waste water and their removal
- CO3: Identify the toxic and solid pollutants in environment and their treatment

**Title of the paper: CHH501: Coordination Chemistry**

**Course Outcomes:**

- CO1: Apply crystal field theory for the study of complexes
- CO2: Interpret the spectra and magnetic properties of complexes
- CO3: Understand the reaction mechanism in transition metal complexes

**Title of the paper: CHH502: Reaction Mechanisms and Synthetic Methods**

**Course Outcomes:**

- CO1: Understand the reaction mechanism and synthetic uses of organic named reactions
- CO2: Demonstrate the Knowledge of different pericyclic reactions
- CO3: Use oxidizing and reducing reagents in organic reactions

**Title of the paper: CHH503: Solid State Chemistry**

**Course Outcomes:**

- CO1: Demonstrate crystal defects and non-stoichiometry, solid state reactions and preparatory methods
- CO2: Show the knowledge of electronic properties, Band theory, and magnetic properties of materials
- CO3: Knowledge of liquid crystals, superconductivity and organic conducting polymers.

**Title of the paper: CHS504: Chemistry of Synthetic Drugs**

**Course Outcomes:**

- CO1: Show an improved knowledge on theory of drug action and its design, use of general and local anaesthetics
- CO2: Be aware of antibiotic, analgesics and anti-inflammatory agents in daily life.
- CO3: Express the knowledge of CNS depressants, anticonvulsant, antimalarial drugs

**Title of the paper: CHS505: Bioorganic Chemistry**

**Course Outcomes:**

- CO1: Apply the Knowledge of structural and synthesis of amino acids, proteins and their linkages
- CO2: Decode the synthesis of nucleoside and nucleotides and study of DNA and RNA structure
- CO3: Learn the classification and nomenclature of Vitamins and their deficiency diseases

**Title of the paper: CHE506: Medicines in Daily Life**

**Course Outcomes:**

- CO1: Acquire information on common drugs used and their mode of action, clinical significance of trace elements in biological system
- CO2: Be aware of antibiotic, analgesics and anti-inflammatory agents in daily life
- CO3: Show the importance of Ayurvedic medicines in daily life and isolation of active molecules from medicinal plants

**Title of the paper: CHE507: Chemistry of Materials**

**Course Outcomes:**

- CO1: Gain knowledge on cement, glass, lubricants, paints and pigments.
- CO2: Identify the role of catalysts in industrial process, theory and control of corrosion and principles of chemical energy system.
- CO3: Classification of polymers and structure property relationship, Strategies in plastic waste management

**Title of the paper: CHH551: Bioinorganic Chemistry**

**Course Outcomes:**

- CO1: Understand the role of metal ions in biological systems, energy and enzymes
- CO2: Explain the Importance of oxygen carriers, metal storage and nitrogen fixation in biological systems
- CO3: Be familiar with Biochemistry of non-metals and Chelation in Medicine

**Title of the paper: CHH552: Synthetic Design, Molecular Rearrangements and Heterocyclic Chemistry**

**Course Outcomes:**

- CO1: Illustrate the basic principles and techniques used in disconnection approach
- CO2: Be familiar with mechanistic treatment of nucleophilic, electrophilic free radical rearrangements.
- CO3: Understand nomenclature, structure, synthesis and reaction of four and five membered heterocycles.

**Title of the paper: CHH553: Polymers and Photochemistry**

**Course Outcomes:**

- CO1: Understand the techniques and kinetics of polymerization.
- CO2: Be aware of stereochemistry, phase transition, solutions and conducting properties of polymers
- CO3: Learn photochemical reactions, their properties, kinetics and their rearrangement reactions.

**Title of the paper: CHS554: Nuclear, Surface and Nano Chemistry**

**Course Outcomes:**

- CO1: Apply the concepts radioactivity, decay and nuclear power reactors
- CO2: Explain the surface reactions, mechanisms
- CO3: Understand the Nano materials, their synthesis and characterization and their application

**Title of the paper:CHS555: Organometallic Chemistry**

**Course Outcomes:**

- CO1: Learn the structural features of transition metal-carbon pi complexes
- CO2: Show familiarity with the catalysis by organometallic compounds
- CO3: Use organometallic compounds in organic synthesis

**Title of the paper:CHS556: Electrochemistry and Reaction Dynamics**

**Course Outcomes:**

- CO1: Differentiate electroorganic synthesis with conventional synthesis and corrosion types and its control. Role of electro catalysis in hydrogen preparation.
- CO2: Be familiar with solar energy conversion to chemical energy and application of batteries, fuel cells
- CO3: Understand the Complex reactions, Potential energy surfaces, Theory of kinetic isotope effects and Pharmacokinetics

## **Faculty of PG Studies in Organic Chemistry (M.Sc.)**

### **Title of the paper: OCH401: Inorganic Chemistry**

#### **Course Outcomes:**

- CO1: Demonstrate the knowledge of the structure of ionic and covalent compounds and study of their properties
- CO2: Reflect the Knowledge of industrial and commercial applications of halogens, noble gases and non-aqueous solvents
- CO3: Usage of organic precipitants and extraction techniques, masking and de-masking techniques, statistical treatment of errors

### **Title of the paper: OCH402: Organic Chemistry**

#### **Course Outcomes:**

- CO1: Appraise the bonding in organic molecules, aromatic & non aromatic compounds, addition compounds, effect bonding on properties of acids and bases
- CO2: Be familiar with the reaction mechanism and intermediates, Carbocations, carbanions, free radicals and nitrenes
- CO3: Show the understanding of Stereochemistry of compounds and their properties – involving C-C, C-S, C-N and C-P bonds

### **Title of the paper: OCH403: Physical Chemistry**

#### **Course Outcomes:**

- CO1: Apply the Concept of entropy, laws of Thermodynamics, Chemical potential and fugacity of molecules
- CO2: Exhibit chain reactions, composite reactions, autocatalytic reactions and reactions in solutions including fast reactions
- CO3: Identify the role of quantum Chemistry in understanding properties of molecules

**Title of the paper: OCS404: Spectroscopy**

**Course Outcomes:**

- CO1: Show the Knowledge of the basics of Microwave and Vibration spectroscopy
- CO2: Understand the Electronic spectra of molecules
- CO3: Show familiarity with the Nuclear magnetic applications and study of  $^1\text{H}$ -NMR,  $^{13}\text{C}$ -NMR spectra for identification of organic molecules

**Title of the paper: OCS405: Methods of Analysis**

**Course Outcomes:**

- CO1: Apply the Chromatographic techniques for separation of components in a reaction mixture
- CO2: Experiment the Structural elucidation of crystals by XRD and Electron Diffraction techniques
- CO3: Use Thermo- analytical methods for identification of samples and radiochemical analysis of samples

**Title of the paper: OCS406: Environmental Chemistry**

**Course Outcomes:**

- CO1: Be aware of air pollution, pollutants and their control and safety measures
- CO2: Identify the impurities in waste water and their removal
- CO3: Identify toxic and solid pollutants in environment and their treatment

**Title of the paper: OCH451: Advanced Inorganic Chemistry**

**Course Outcomes:**

- CO1: Predict spectral and structural properties of organic and inorganic molecules through symmetry elements and symmetry operation
- CO2: Study different types of bonds and preparatory methods in boranes, inorganic polymers, cage compounds and metal carbonyls
- CO3: Explain electronic structure, oxidation states, extractions and separation of lanthanides and actinides.



**Title of the paper: OCH452: Advanced Organic Chemistry**

**Course Outcomes:**

- CO1: Demonstrate electrophilic and nucleophilic substitution reactions and addition to carbon-carbon, carbon- hetero multiple bonds
- CO2: Analyze free radical substitution reactions, auto oxidations and coupling of alkynes, elimination reactions
- CO3: Demonstrate the heterocyclic compounds with specific reference to the synthesis and reactions. Biologically important heterocycles

**Title of the paper: OCH453: Advanced Physical Chemistry**

**Course Outcomes:**

- CO1: Application of statistical and irreversible thermodynamics for various forces and phenomena
- CO2: Demonstrate the Knowledge of electrochemistry of solutions, ion-solvent interaction and applications of electrochemistry
- CO3: Realize and Express the need for approximate methods for structure-property relationships

**Title of the paper: OCS454: Spectroscopy and Analytical Techniques**

**Course Outcomes:**

- CO1: Understand the Structural elucidation of species containing unpaired electrons by ESR. Study of NQR, Mossbauer and photoelectron spectroscopic techniques and their applications
- CO2: Be aware of Atomic Absorption Spectrometry, Emission Spectroscopy, Molecular Luminescence Spectroscopy and Light-Scattering methods for detection of metals, particles and particle size
- CO3: Use mass spectrometry in identification of organic compounds and undertake Case studies of structural elucidations employing UV, IR, NMR and Mass spectral data of compounds

**Title of the paper: OCS455: Chemistry of Biomolecules**

**Course Outcomes:**

- CO1: Demonstrate the knowledge of cell structures, structure and functions of lipids and function and role of lipoproteins
- CO2: Understand the role of amino acids, proteins, nucleic acids and enzymes in biological processes
- CO3: Show knowledge of the monosaccharide's, di, tri and tetra saccharides, polysaccharide s and their functions and degradations

**Title of the paper: OCH501: Reaction Mechanisms**

**Course Outcomes:**

- CO1: Knowledge of mechanism and applications of name reactions which are being used continuously in synthetic chemistry.
- CO2: Demonstrate independently the mechanistic treatment of nucleophilic, electrophilic, free radical rearrangements
- CO3: Use advanced named reactions in the synthesis of variety of chemical products

**Title of the paper: OCH502: Organic Synthetic Methods and Reagents**

**Course Outcomes:**

- CO1: Learn and apply the concepts of oxidation reactions, reagent used for oxidation and halogenation reactions
- CO2: Observe the catalytic hydrogenation, metal reductions and safety measures to be taken during the chemical reactions
- CO3: Demonstrate the knowledge of activating groups, protecting groups and miscellaneous reagents and their usage in synthetic chemistry.

**Title of the paper: OCH503: Advanced Heterocyclic Chemistry**

**Course Outcomes:**

- CO1: Show familiarity with the nomenclature of heterocyclic compounds and knowledge on four membered, five membered and six membered heterocycles
- CO2: Learn the mesoionic compounds, anthocyanins, flavones and heterocycles in functional group and ring transformation.
- CO3: Show the detailed information on named reactions in heterocyclic chemistry and their synthetic applications

**Title of the paper: OCS504: Chemistry of Synthetic Drugs**

**Course Outcomes;**

- CO1: Demonstrate knowledge on theory of drug action and its design, use of general and local anaesthetics
- CO2: Show familiarity with antibiotic, analgesics and anti-inflammatory agents in daily life
- CO3: Awareness and the knowledge of CNS depressants, anticonvulsant, antimalarial drugs

**Title of the paper: OCS505: Bioorganic Chemistry**

**Course Outcomes:**

- CO1: Reflect the knowledge of structural and synthesis of amino acids, proteins and their linkages
- CO2: Decode the synthesis of nucleoside and nucleotides and study of DNA and RNA structure
- CO3: Learn the classification and nomenclature of Vitamins and their deficiency diseases

**Title of the paper: OCH551: Organometallic Chemistry**

**Course Outcomes:**

- CO1: Understand catalysis by organometallic compounds and application of reagents in various chemical reactions
- CO2: Explain the Importance of synthetic utility of various organometallic reagents like organolithium organosilicon, tin and boron compounds
- CO3: Describe the utilisation of different types of synthetic reagents in variety of chemical reactions.

**Title of the paper: OCH552: Organic Synthetic Design and Green Techniques**

**Course Outcomes;**

- CO1: Exhibit the knowledge about synthetic design, planning of organic synthesis and functionality of groups.
- CO2: Illustrate basic principles and techniques used in disconnection approach
- CO3: Knowledge of Principles of Green Chemistry and applications of different green techniques in chemical synthesis

**Title of the paper: OCH553: Photochemistry and Asymmetric Synthesis**

**Course Outcomes:**

- CO1: Learn the photochemical reactions, their properties, kinetics and their rearrangement reactions.
- CO2: Show the Pericyclic reactions, electrocyclic reactions, cycloaddition reactions and sigmatropic reactions.
- CO3: Learn independently about asymmetric synthesis, separation of enantiomers, chiral reagents and use of reagents in asymmetric synthesis

**Title of the paper: OCS554: Advanced Medicinal Chemistry**

**Course Outcomes:**

- CO1: Demonstrate the sound knowledge of antineoplastic agents antimetabolites, cardiovascular agents and antiarrhythmic agents and their mode of action
- CO2: Be familiar with the antiviral drugs anti-inflammatory drugs, antihypertensive agents and their mode of action
- CO3: Articulate the knowledge of industrial pharmacy, different methods of extraction, separation, purification and processes involved in drug delivery system

**Title of the paper: OCS555: Chemistry of Natural Products**

**Course Outcomes:**

- CO1: Learn the structural features of structure, synthesis and stereochemistry of alkaloids
- CO2: Show the detailed knowledge of natural product terpenoids, diterpenoids and prostaglandins
- CO3: Be aware of chemistry of different steroids and steroidal hormones.

**Title of the paper: OCS556: Industrial Organic Chemistry**

**Course Outcomes:**

- CO1: Understand different types of polymerization techniques and kinetics of polymerization.
- CO2: Show conceptual knowledge on color and constitution of dyes, synthesis of dyes, pesticides and insecticides.
- CO3: Know the usage of different heterocyclic compounds as agrochemicals, plant growth regulators and veterinary products.

## **Faculty of PG Studies in Commerce (M.Com)**

### **Title of the paper: CMHC1.1 Accounting Theory and Practice**

#### **Course Outcomes:**

- CO1: Show familiarity with the basic accounting principles and concepts of accounting.
- CO2: Be able to read and analyze the financial statements of a firm.
- CO3: Exhibit enhanced understanding about the role of underwriting in capital market.
- CO4: Understand the concepts and accounting adjustments.

### **Title of the paper: CMHC1.2 Business Research Methods-I**

#### **Course Outcomes:**

- CO1: Understand the concept of research, types of research and approaches
- CO2: Be skilled in the sampling techniques.
- CO3: Be able to construct questionnaire relying on several types of questions
- CO4: Be skilled in writing an effective research proposal.

### **Title of the paper: CMHC1.3 Strategic Management**

#### **Course Outcomes:**

- CO1: Show an understanding of strategic management and analyzing company's vision mission statements.
- CO2: Analyze company's strategic situation by emphasis on strategic analyze at business and corporate level.
- CO3: Be familiar with strategic formation, strategic change and strategic innovation.
- CO4: Exhibit an ability to suggest for change and development of a company strategy

**Title of the paper: CMSC1.4 Managerial Analysis for Business**

**Course Outcomes:**

- CO1: Solve practical problems in business
- CO2: Exhibit decision making skill and coordinate business activities
- CO3: Be skilled in demand forecasting techniques.
- CO4: Demonstrate skill in profit planning and control

**Title of the paper: CMSC1.5 E-Commerce**

**Course Outcomes:**

- CO1: Analyze the evolution, significance and the role of e-commerce in integrated global business era.
- CO2: Illustrate a concrete classification of networks and its pros and cons for business organization.
- CO3: Analyze various e-commerce models and its impact on markets and business organizations
- CO4: Demonstrate e-payment, e-security and E-CRM are the key areas to be addressed and focused by the business organizations in different sectors.

**Title of the paper: CMOE2.1 Essentials of Management**

**Course Outcomes:**

- CO1: Assess the theoretical and conceptual approaches of the management.
- CO2: Analyze various forms of business organization and the hierarchy of management in those business organizations.
- CO3: Describe the eligibility criteria for entering corporate sector.

**Title of the paper: CMHC2.2 Corporate Accounting**

**Course Outcomes:**

- CO1: Analyze the process of internal and external reconstruction
- CO2: Prepare liquidation of financial statements and statement of affairs.
- CO3: Analyze the importance and process of inflation accounting
- CO4: Show an ability to understand the process of environmental and e-accounting.

**Title of the paper: CMHC2.3 Business Research Methods**

**Course Outcomes:**

- CO1: Be familiar with the role of statistics in business.
- CO2: Apply appropriate statistical tools for analysis based on research needs and type of data available.
- CO3: Show fair understanding about the application of parametric and non-parametric test in research analysis.
- CO4: Exhibit knowledge about methods of data interpretation and layout of research report.

**Title of the paper: CMHC2.4 Advanced Financial Management**

**Course Outcomes:**

- CO1: Exhibit enhanced awareness about capital structure and theories of capital structure
- CO2: Interpret the financial status of a firm based on leverage analysis.
- CO3: Exhibit enhanced knowledge and analytical ability to assess the impact of dividend policy on market price per share of a firm.
- CO4: Estimate the working capital requirement and cash and inventory need based on the operation of the firm



**Title of the paper: MSC2.5 Modern Marketing**

**Course Outcomes:**

- CO1: Analyze the customized marketing trends applicable to product and service line companies.
- CO2: Assess the various market segmentation base, targeting and positioning the products and services which leads to a company's sustainability.
- CO3: Be acquainted with an insight into the most critical analysis of consumer and organization buying behavior.
- CO4: Conduct survey on changing's trends in services and services marketing

**Title of the paper: CMSC2.6 Organizational Behavior**

**Course Outcomes:**

- CO1: Discuss the development in the field of organizational behavior
- CO2: Analyze and compare different models used to explain individual behavior
- CO3: Explain the process involved in group dynamic
- CO4: Identify organizational culture and its implementation on organizational change

**Title of the paper: CMOE3.1 Entrepreneurship Development and Start Up**

**Course Outcomes:**

- CO1: Analyze the concepts of entrepreneurship development.
- CO2: Provide an insight into significance of entrepreneurship development to boost the skilled workforce and tackle unemployment.
- CO3: Assess the risk and return associated with start-ups and the available Government schemes and ailments.

**Title of the paper: CMHC3.2 Accounting Standards and Financial Reporting**

**Course Outcomes:**

- CO1: Practice accounting standards and be familiar with their impact in the corporate sector.
- CO2: Analyze cash flow statement is used for planning the cash movement.
- CO3: Calculate the value of intangible assets and can identify the importance in business
- CO4: Analyze the various reporting practices prevailing in Indian Corporate sector

**Title of the paper: CMHC3.3 Entrepreneurship Development and Small Business Enterprises**

**Course Outcomes:**

- CO1: Be familiar with employment opportunities
- CO2: Show an increased business knowledge
- CO3: Show familiarity with entrepreneurial skills in causing social change
- CO4: Start up a new venture

**Title of the paper: CMHC3.4 Business Environment and Policy**

**Course Outcomes:**

- CO1: Be familiar with global business environment and its significance in the business decision.
- CO2: Show better understanding about different trade policy on export and import.
- CO3: Be familiar with the significance of environment scanning.
- CO4: Identify the strength, weakness, opportunities and threats of the firm based on environmental scanning.

**Title of the paper: CMHC3.5 Accounting for Managerial Decisions**

**Course Outcomes:**

- CO1: Realize the preparation of lease accounting and their evaluation for taking and leasing decisions
- CO2: Apply the concept and mechanics of the time value of money, apply capital budgeting techniques, and apply the theory of capital structure to assess a firm's leverage and the cost of capital.
- CO3: Apply different instruments to deal with exchange risk and markets imperfections while maximizing benefits from expanding to global markets.
- CO4: Understand the importance of risk within the context of financial decision making on comparing various source of finance

**Title of the paper: CMHS3.6 Security Analysis and Portfolio Management**

**Course Outcomes:**

- CO1: Be skilled in best investment plans and expected returns
- CO2: Show familiarity with balance risk
- CO3: Be skilled in capital market and rational decision making
- CO4: Identify diversified portfolios

**Title of the paper: CMSC3.5A Human Resource Development**

**Course Outcomes:**

- CO1: Exhibit competitive skill
- CO2: Be aware of opportunities for career development
- CO3: Demonstrate skills in team building
- CO4: Show ability to deal corporate world

**Title of the paper: CMSC3.6A Human Resource Management**

**Course Outcomes:**

- CO1: Analyze the importance of human resource management in organization
- CO2: Be aware of different tools used in forecasting and planning human resource needs.
- CO3: Be familiar with tool used in managing employees effectively.
- CO4: Identify the key issues related to administering the human resource.

**Title of the paper: CMHC4.1 Advanced Cost and Management Accounting**

**Course Outcomes:**

- CO1: Show an understanding of the importance and role of cost accounting systems
- CO2: Analyze and apply flexible and static budgets and variance analysis
- CO3: Apply quantitative techniques in problem solving and decision making.
- CO4: Assess the relevance, strengths and weaknesses of different costing

**Title of the paper: CMHC4.2 International Business**

**Course Outcomes:**

- CO1: Exhibit clarity about the approaches and various phases of internationalization of business.
- CO2: Be able to read the present status of balance of trade and its role in the development of macroeconomic policy.
- CO3: Describe the reasons and consequences of forex market volatility and its impact on domestic and international business.
- CO4: Identify the issues and solutions in relation to the internationalization strategies of firms.

### **Title of the paper: CMSC4.3 Retail Management**

#### **Course Outcomes:**

- CO1: Understand the ways that retailers use marketing tools and techniques to interact with their customers.
- CO2: Understand the factors relating to visual merchandising, such as store layouts and presentation
- CO3: Prepare strategic plan for a business, including financial strategy and financial performance measures
- CO4: Identify the flow of goods and services in a retail environment in the form of inventory control, supply chain, and risk management

### **Title of the paper: CMSC4.5 Advanced Business Accounting**

#### **Course Outcomes:**

- CO1: Identify the process of human resources in an organization
- CO2: Prepare financial statement of investment account and farm accounting.
- CO3: Identify the process of preparation of voyage accounts
- CO4: Understand ethical issues and responsibilities of international accounting standards

### **Title of the paper: CMSC4.6 Capital Market Operation**

#### **Course Outcomes:**

- CO1: Provide sufficient marketability
- CO2: Be skilled in reasonable safety measure and fair dealing in trade
- CO3: Be skilled in evaluation of securities
- CO4: Show familiarity with competitive investments

**Title of the paper: CMSC4.5A Organizational Change and Development**

**Course Outcomes:**

- CO1: Accept and face the competitive environment
- CO2: Demonstrate the ability to develop different entity and empower people
- CO3: Demonstrate humanistic values through practice.
- CO4: Be skilled in team building.

**Title of the paper: CMSC4.6A Labor Legislation**

**Course Outcomes:**

- CO1: Analyze the theoretical and conceptual framework of Labor Law in India and its association with ILO.
- CO2: Exhibit applicability and significance of various provisions of the Factories Act, 1948 and Child Labor (Prohibition & Regulation) Act, 1986, through case analysis and references.
- CO3: Assess the Social security legislation related to minimum wages, ESI, Compensation, Bonus etc. and also orienting on the role of an HR manager in handling the different situation.
- CO4: Provide an insight into hormonal industrial relations and interpretations.

**Faculty of PG Studies in Insurance and Bank Management (M.Com)**

**Title of the paper: IBHC1:1: Accounting Theory and Practice**

**Course Outcomes:**

- CO1: Exhibit knowledge about the basic accounting principles and concepts of accounting.
- CO2: Read and analyze the financial statements of a firm.
- CO3: Express enhanced understanding about the role of underwriting in capital market.
- CO4: Understand the concepts and accounting adjustments for bonus and right issue.

**Title of the paper: IBHC1:2: Business Research Methods**

**Course Outcomes:**

- CO1: Show a clear understanding about the concept of research, types of research and approach.
- CO2: Demonstrate knowledge about the sampling techniques to be used different research.
- CO3: Prepare questionnaire relying on several types of questions.
- CO4: Write an effective research proposal.

**Title of the paper: IBSC1:3: Business Ethics and Corporate Governance**

**Course Outcomes:**

- CO1: Apply and assess ethics in various levels of business.
- CO2: Assess the ethical decision making in HRM, Finance and marketing.
- CO3: Analyze the framework of corporate governance in resolving ethical conflicts and adopt uniformity in regulation of business.
- CO4: Compare corporate social responsibility and its impact on societal as well as business development.

### **Title of the paper: IBSC1: 4: Bank Management**

#### **Course Outcomes:**

- CO1: Demonstrate the understanding of the fundamentals Indian Banking System.
- CO2: Show the understanding of different types of e-banking system prevailing in India.
- CO3: Identify various priority sectors lending and their impact on Indian economy.
- CO4: Identify the Non-performing assets and how it influences the performance of banks.

### **Title of the paper: IBSC1:5 Entrepreneurial Development**

#### **Course Outcomes:**

- CO1: Be able to understand entrepreneurial traits.
- CO2: Apply parameters to assess opportunities and constraints for new business ideas.
- CO3: Analyze the systematic process to select and screen a business idea and draft business plan.
- CO4: Design the strategies for successful implementation of ideas.

### **Title of the paper: IBHC2:1: Personal Financing and Budgeting**

#### **Course Outcomes:**

- CO1: Demonstrate an understanding of various investment opportunities.
- CO2: Determine tax liability in the process of income calculation.
- CO3: Show the importance of stock market.
- CO4: Identify the importance of budget preparation its practical utility in their life.

### **Title of the paper: IBHC2:2: Corporate Accounting**

#### **Course Outcomes:**

- CO1: Analyze the process of internal and external reconstruction.
- CO2: Prepare liquidation of financial statements and statement of affairs.
- CO3: Analyze the importance and process of inflation accounting.
- CO4: Demonstrate an understanding of practical importance in the process of environmental and e-accounting.



### **Title of the paper: IBHC2:3: Business Research Methods-11**

#### **Course Outcomes:**

- CO1: Show an understanding about the concept of research, types of research and approach.
- CO2: Reflect a fair knowledge about the sampling techniques to be used different research.
- CO3: Construct a questionnaire relying on several types of questions.
- CO4: Be able to write an effective research proposal.

### **Title of the paper: IBHC2:4: Strategic Human Resource Management**

#### **Course Outcomes:**

- CO1: Analyze the importance of human resource management in organization.
- CO2: Use different tools in forecasting and planning human resource needs.
- CO3: Apply the tool used in managing employees effectively.
- CO4: Identify the key issues related to administering the human resource.

### **Title of the paper: IBSC2:5: Financial Institutions and Services**

#### **Course Outcomes:**

- CO1: Appraise the Indian financial system and the importance of money and capital market.
- CO2: Identify various functions of RBI and importance in economic development.
- CO3: Assess various sources of finance for starting of risk enterprises.
- CO4: Assess various agencies involved in credit rating and its process.
- CO5: Analyze various function of financial institutions and their importance.

**Title of the paper: IBSC2:6: Rural Banking and Management**

**Course Outcomes:**

- CO1: Be familiar with the key issues related to rural banking.
- CO2: Be able to discuss the initiatives of the government for inclusive financial system in academic platforms.
- CO3: Identify the current development in the field of micro finance.
- CO4: Analyze the issues and challenges of various models of micro-finance.

**Title of the paper: IBOE3:1: Bank Practices**

**Course Outcomes:**

- CO1: Demonstrate the understanding of basic financial system.
- CO2: Identify functions of central banks.
- CO3: Compare and analyze the relation between banker and customer.
- CO4: Be able to write bank examination successfully.

**Title of the paper: IBHC3:2: Banking and Insurance Accounting**

**Course Outcomes:**

- CO1: Analyze the accounting practices of banking and insurance companies through practical. Exercise.
- CO2: Do Practical assessment of human asset accounting on the basis of evaluation models.
- CO3: Assess the regulatory framework of accounting standards in India.
- CO4: Analyze the adaptability to IFRS and the accounting convergence.

**Title of the paper: IBHC3:3: Strategic Financial Management**

**Course Outcomes:**

- CO1: Demonstrate the enhanced awareness about capital structure and theories of capital structure.
- CO2: Demonstrate the knowledge through the interpretation of the financial status of a firm based on leverage analysis.
- CO3: Show an enhanced knowledge and analytical ability to assess the impact of dividend policy on market price per share of a firm.
- CO4: Estimate the working capital requirement and cash and inventory need based on the operation of the firm.

**Title of the paper: IBSC3:4: Principles and Practices of General Insurance**

**Course Outcomes:**

- CO1: Incorporate employee benefit into financial planning recommendation.
- CO2: Integrate the tax implication into insurance decisions.
- CO3: Show a better understanding about the concepts of fire, marine, health and other miscellaneous insurance.
- CO4: Use various statutory provisions of insurance like Insurance Act, 1938, IRDAI Act. 1999.

**Title of the paper: IBSC3:5: Strategic Marketing Management**

**Course Outcomes:**

- CO1: Show a better awareness about marketing and its functions.
- CO2: Demonstrate enhanced familiarity about the consumer behavior and its determinants.
- CO3: Reflect better understanding about the concepts and evolution of marketing ideas.
- CO4: Apply various levels of strategic marketing plan.

### **Title of the paper: IBHC4:1: Risk Management**

#### **Course Outcomes:**

- CO1: Analyze the impact of risks associated with assets and liabilities of the banks and its impact on the banks performance.
- CO2: Assess the effect of credit risk in banks.
- CO3: Articulate the current banking scenario, analyzing the measures undertaken by banks as per RBI guidelines.
- CO4: Apply the credit derivatives in mitigating risks.

### **Title of the paper: IBHC4:2: Portfolio Management**

#### **Course Outcomes:**

- CO1: Analyze best and unique investment policy.
- CO2: Assess the balance risk and return.
- CO3: Demonstrate the knowledge about capital market.
- CO3: Show the rational thinking on various investment portfolios and rational decision making.
- CO4: Identify diversified portfolios.

### **Title of the paper: IBSC4:3: Budgeting and Cost Control**

#### **Course Outcomes:**

- CO1: Reflect the understanding of the importance and role of cost accounting systems.
- CO2: Analyze and apply flexible and static budgets and variance analysis.
- CO3: Apply quantitative techniques in problem solving and decision making.
- CO4: Assess the relevance, strengths and weaknesses of different costing systems.

### **Title of the paper: IBSC4:4: Principles and Practices of Life Insurance**

#### **Course Outcomes:**

- CO1: Show a better understanding of concepts, significance, legal conditions of insurance contract.
- CO2: Analyze the implication of principles of insurance with insurance contract.
- CO3: Demonstrate the better understanding about the various risks and methods of handling risk.
- CO4: Show the enhanced understanding about the various types life insurance product.
- CO5: Show the efficiency in estimating premium, claim, paid up value, surrender value, loan and bonus on insurance policy.

### **Title of the paper: IBSC4:5: Project Work**

#### **Course Outcomes:**

- CO1: Undertake research independently.
- CO2: Be able to prepare research methodology and identification of research gap.
- CO3: Be able to prepare questionnaire for data collection.
- CO4: Prepare final research report and make presentations in academic meetings.

## **Faculty of PG Studies and Research in Physics (M.Sc.)**

### **Title of the paper: PHH401: Mathematical Methods of Physics I**

#### **Course Outcomes:**

- CO1: Understand that mathematics can be used as an effective tool in solving physical problems.
- CO2: Appreciate the utility and ingenuity of various mathematical theorems when applied to physical principles.
- CO3: Be familiar with the abstraction of physical concepts when codified in mathematical language.
- CO4: Understand and apply mathematical formulation in various branches of Physics.

### **Title of the paper: PHH402: Quantum Mechanics I**

#### **Course Outcomes:**

- CO1: Appreciate the paradigm-shift in the laws of microscopic particles.
- CO2: Understand the laws of Physics at the level of elementary particles.
- CO3: Appreciate the deep and profound ideas that govern the particles at the quantum scale.
- CO4: Show an understanding of the nature and properties of various systems from the perspective of quantum mechanical principles.

### **Title of the paper: PHH404: Electrodynamics**

#### **Course Outcomes:**

- CO1: Show an ability to solve problems on electricity & magnetism, electrostatics/dynamics.
- CO2: Exhibit an understanding of Maxwell's equations and its applications.
- CO3: Learn the concepts of metallic waveguide structure and propagation of EM wave through it.

### **Title of the paper: PHH451: Mathematical Methods of Physics II**

#### **Course Outcomes:**

- CO1: Show advanced learning on how mathematics can be used as an effective tool in solving physical problems.
- CO2: Understand and apply mathematical formulation in various branches of Physics.
- CO3: Be familiar with programing and how it can be used in solving problems and doing calculations in Physics.
- CO4: Exhibit skills in computational and programing application-demanding subjects.

### **Title of the paper: PHH452: Quantum Mechanics II**

#### **Course Outcomes:**

- CO1: Appreciate the deep and profound ideas that govern the particles at the quantum scale,
- CO2: Understand the nature and properties of various systems from the perspective of quantum mechanical principles,
- CO3: Apply their knowledge & understanding of the subject to fathom the working of various devices, instruments and constructs,
- CO4: Understand how abstract laws of quantum mechanics help us understand the nature and behavior of matter and its various manifestations.

### **Title of the paper: PHH453: Nuclear and Radiation Physics**

#### **Course Outcomes:**

- CO1: Knowledge of the basic constituents of the nucleus and properties of the nucleus.
- CO2: Be familiar with the three processes of radioactive decay & understand the exponential behavior of radioactive samples and know how radioactive dating works.
- CO3: Understand the effects of nuclear binding energy and why it leads to nuclear fission and fusion as energy sources. Also know the difference between nuclear fission and nuclear fusion.
- CO4: Understand the working principles of the various nuclear detectors and how the nuclear radiations interact with matter.
- CO5: Show awareness about the advantages and disadvantages of nuclear radiations.
- CO6: Be aware of several practical applications of nuclear physics.

**Title of the paper: PHH454: Condensed Matter Physics and Electronics**

**Course Outcomes:**

- CO1: Demonstrate skills in Condensed Matter Physics.
- CO2: Learn to use a number of approximation schemes to calculate physical properties of various condensed matter systems based on quantum mechanics.
- CO3: Appreciate the physical ideas behind these approximation schemes, as well as their limitations.

**Title of the paper: PHE455: Natural Phenomena and Energy Sources**

**Course Outcomes:**

- CO1: Understanding the concepts of natural phenomena in a scientific perspective.
- CO2: Show an awareness about energy sources.
- CO3: Uses and applications of various energy sources.

**Title of the paper: PHH501: Atomic and Molecular Physics**

**Course Outcomes:**

- CO1: Understand the basics concepts of Atomic/molecular Physics.
- CO2: Analyze the spectra of various atoms.
- CO3: Understand the structure and constitution of atoms and molecules.

**Title of the paper: PHH502: Thermodynamics and Statistical Physics**

**Course Outcomes:**

- CO1: Discuss and answer the First Law of Thermodynamics.
- CO2: Show an ability to define heat, work, thermal efficiency and the difference between various forms of energy.
- CO3: Exhibit skills to identify and describe energy exchange processes (in terms of various forms of energy, heat and work).
- CO4: Apply the steady-flow energy equation or the First Law of Thermodynamics to a system of thermodynamic components (heaters, coolers, pumps, turbines, pistons, etc.) to estimate required balances of heat, work and energy flow.
- CO5: Explain the concepts of path dependence/independence and reversibility/irreversibility of various thermodynamic processes, to represent these in terms of changes in thermodynamic state.



**Title of the paper: PHS503: Condensed Matter Physics I**

**Course Outcomes:**

- CO1: Show an understanding of basic concepts required to understand the nature of bulk materials.
- CO2: Be oriented towards a new specified subject.
- CO3: Be familiar with the principle and applications of the solid state.

**Title of the paper: PHS504: Electronics I**

**Course Outcomes:**

- CO1: Be able to develop printed circuit boards.
- CO2: Show familiarity with linear and nonlinear applications of operational amplifiers.
- CO3: Show familiarity with power devices and importance of power amplifiers.

**Title of the paper: PHS505: Condensed Matter Physics II**

**Course Outcomes:**

- CO1: Demonstrate the familiarity with the types of extrinsic semiconductors, theory and mathematical aspects related to extrinsic semiconductors.
- CO2: Show an understanding of the formation of pn junction and also junction theory.
- CO3: Be skilled in low dimensional semiconductors and their applications.
- CO4: Be aware of different semiconductor devices.
- CO5: Understand the advanced semiconducting materials.

**Title of the paper: PHS506: Electronics II**

**Course Outcomes:**

- CO1: Show an awareness about basic terminologies of radio communication system.
- CO2: Be familiar with the different types of modulation techniques used in radio communication system.
- CO3: Show an increased learning about radio transmitter and receiver in detail.
- CO4: Be familiar with different types of pulse communication system and digital communication system.

**Title of the paper: PHH551:Lasers, Vacuum Techniques and Cryogenics**

**Course Outcomes:**

- CO1: Be familiar with difference between low level source, linear optics and laser source, nonlinear source.
- CO2: Be aware of research work in NLO.
- CO3: Show familiarity with the application of laser in NLO.
- CO4: Show an understanding of low temperature gas production methods, low temperature measuring equipment like thermocouple, RTD, gas thermometer.

**Title of the paper: PHH552: Astrophysics and Relativity**

**Course Outcomes:**

- CO1: Be familiar with the details of stellar evolution, stellar classification and galaxies.
- CO2: Know about big bang theory, evolution of Universe and origin of life on Earth.
- CO3: Exhibit the knowledge about concepts of relativity and relativistic dynamics.
- CO4: Show familiarity with the structure of space-time and gravity.

**Title of the paper: PHS553: Condensed Matter Physics – III**

**Course Outcomes:**

- CO1: Exhibit a working knowledge of concepts in Condensed Matter Physics concepts.
- CO2: Show the skills in understanding of experimental techniques of the subject.
- CO3: Familiarity with recent advances in the subject.

**Title of the paper: PHS554: Electronics – III**

**Course Outcomes:**

- CO1: Be familiar with the basic concepts of microprocessors.
- CO2: Exhibit programming skills of microprocessor 8085 using assembly language.
- CO3: Show familiarity with the concepts of interfacing with microprocessors.

**Title of the paper: PHS555: Condensed Matter Physics – IV**

**Course Outcomes:**

- CO1: Show an increased knowledge in research work in crystals& crystal growth,
- CO2: Be familiar with the different types of crystal defects and its application in electrical conductivity in battery.
- CO3: Show an awareness about special verity of the materials, polymers and their applications.
- CO4: Know about Liquid Crystal Displays and their applications.

**Title of the paper: PHS556: Condensed Matter Physics – IV**

**Course Outcomes:**

- CO1: Be familiar with the basic structure and working principle of Optical Fiber Cable.
- CO2: Know about different types of optical sources and optical detectors.
- CO3: Be familiar with the basic power budget designing techniques used in OFC communication system.

## **Faculty of PG Studies in Economics (M.A)**

### **Title of the paper: ECH1.1: Micro Economic Analysis**

#### **Course Outcomes:**

- CO1: Demonstrate the basic knowledge of the subject in academic interactions.
- CO2: Use theoretical knowledge about act of consumer behavior in the interpretation of the conditions of the market.
- CO3: Apply the terms and concepts of economics while undertaking researches.

### **Title of the paper: ECH1.2: Macro Economic Analysis**

#### **Course Outcomes:**

- CO1: Show the knowledge and competence about valuation of national Income and different methods of calculation.
- CO2: Demonstrate the basic information about Macroeconomics.
- CO3: Identify causes of fluctuations in an economy and suggest the ways to control it.
- CO4: Analyze the nature and functioning of the economy at the macro level.

### **Title of the paper: ECH1.3: Economics of Growth and Development**

#### **Course Outcomes:**

- CO1: Be competent to differentiate the Economic growth and Economic development.
- CO2: Undertake surveys and projects with the theatrical framework.
- CO3: Recognize the role of technology in the economic growth and suggest the ways to augment the same in the workplaces.

### **Title of the paper: ECS1.4: Quantitative Methods In Economic Analysis**

#### **Course Outcomes:**

- CO1: Recognize the Importance of the use of mathematical methods in Economic analysis.
- CO2: Analyze economical phenomenon by using mathematical methods.
- CO3: Employ the tools of analysis in the study and interpretation of the economic situations.

### **Title of the paper: ECS1.5: Economics of Insurance**

#### **Course Outcomes:**

- CO1: Understand the nature of insurance and its importance in day to day life.
- CO2: Explain the detailed knowledge about general insurance.
- CO3: Evolve future plans for the life security through savings and investments.
- CO4: Show the knowledge of Marketing strategies of Insurance Products and there regulatory aspects.

### **Title of the paper: ECS1.6: Agricultural Economics**

#### **Course Outcomes:**

- CO1: Explain the interdependence of agriculture and other sectors.
- CO2: Articulate the knowledge about production and productivity.
- CO3: Show a fair knowledge of the financial sources available for agriculture development.
- CO4: Analyze the need for agriculture price policy for its growth and pressurise the authorities to evolve the same.
- CO5: Analyze inter regional variations in the growth of agriculture.

### **Title of the paper: ECS1.7 : Man Power Economics**

#### **Course Outcomes:**

- CO1: Share the knowledge about labor laws and market.
- CO2: Analyze the employment strategies for the overall growth of the economy.
- CO3: Use the extensive information collected about labor unions and issues related to accessibility of social security benefits to laborers in academic presentations.
- CO4: Advise the govt. or employers to determine the wages in different situations to ensure proper work.

### **Title of the paper: ECH2.1: Business Economics**

#### **Course Outcomes:**

- CO1: Show and apply the discernment ability while doing business and interacting on issues concerning the business field.
- CO2: Evaluate the price fluctuation in the market and communicate to the customers or buyers about the right time for buying.
- CO3: Predict the futures based on the market trends.
- CO4: Demonstrate the theoretical knowledge of cost and revenue of the business firm through extending help the people in the business fields.
- CO5: Explain how to plan the business with capital management.

### **Title of the paper: ECH2.2: Economic Thought**

#### **Course Outcomes:**

- CO1: Trace the earlier history of the economists about economic issues.
- CO2: Evaluate the validity of theories in future.
- CO3: Apply the theories in day to day business.
- CO4: Reflect socialist thought about the different issues of economics.

### **Title of the paper: ECH2.3: Statistical Analysis in Economics**

#### **Course Outcomes:**

- CO1: Possess the preliminary knowledge about the use of statistics in economic and apply while interpretation and analysis.
- CO2: Develop scientific and sound theoretical economic models.
- CO3: View the economic issues more accurately using the tools and appropriate approaches.
- CO4: Predict the future economic phenomenon accurately.

### **Title of the paper: ECS2.4: Economics of Infrastructure**

#### **Course Outcomes:**

- CO1: Show the analytical skills on issues like the role of transportation in economic development.
- CO2: Highlight the need for new technological competency.
- CO3: Evaluate the necessity of basic infrastructure for the development.
- CO4: Explain the importance of social infrastructure in economic development.

### **Title of the paper: ECS2.5: Monetary Economics**

#### **Course Outcomes:**

- CO1: Articulate the understanding about the characteristics and functions of money.
- CO2: Discuss how the demand for money is created by studying theories of money.
- CO3: Make presentations on the theories concerning money and its circulation.
- CO4: Realize the nature of sound banking business.

### **Title of the paper: ECS2.6: RURAL DEVELOPMENT**

#### **Course Outcomes:**

- CO1: Interpret the problems of rural areas in different ways.
- CO2: Explain the Strategic role of the students in the development of rural areas.
- CO3: Assess the demographic features of the rural areas to frame strategic economic Policies for the development.
- CO4: Discuss the nature of the rural industries.

### **Title of the paper: ECO2.7: GLOBAL ECONOMY**

#### **Course Outcomes:**

- CO1: Evaluate various economic issues at global level.
- CO2: Reflect the sound knowledge about Money and Banking.
- CO3: Show the ability about how prepare the budget.
- CO4: Explain how the fiscal policies working.
- CO5: Communicate the idea of economic reforms with the others.

**Title of the paper: ECO2.8: Health Economics**

**Course Outcomes:**

- CO1: Express the knowledge about economic value of health.
- CO2: Evaluate the status of health infrastructure in India.
- CO3: Explain how to finance the health related aspect.
- CO4: Describe how the good health creates more wealth.

**Title of the paper: ECH3.1: Public Economics**

**Course Outcomes:**

- CO1: Estimate the role of government in economic affairs.
- CO2: Appraise the economic choices direct the bureaucracy.
- CO3: Evaluate and make differences between different types of goods and services available in the society.
- CO4: Show the good command on the works of physical policies in an economy.

**Title of the paper: ECH3.2: Econometrics -I**

**Course Outcomes:**

- CO1: Apply the mathematical techniques in economic analysis.
- CO2: Analyze the economic phenomenon by applying scientific methods.
- CO3: Construct sound /scientific economic models.
- CO4: Make presentations in academic platform.

**Title of the paper: ECS3.3: Research Methodology**

**Course Outcomes:**

- CO1: Analyze the basic concept of research.
- CO2: Evaluate the importance of research in Economics field.
- CO3: Be sensitized in communication research.
- CO4: Apply the statistical tools in the analysis of economic phenomenon.
- CO5: Practice independently conceives and executes research projects.



**Title of the paper: ECS3.4: Financial Institutions and Markets**

**Course Outcomes:**

- CO1: Discuss the features financial system.
- CO2: Interpret the role of financial intermediaries.
- CO3: Explain the operation of financial markets.
- CO4: Study international financial markets for enhancing the knowledge domain.

**Title of the paper: ECS3.5: Computer Applications in Economic Analysis**

**Course Outcomes:**

- CO1: Show familiarity with the basics of computer.
- CO2: Acquire information about techniques of data processing.
- CO3: Apply the practical knowledge about computer data analysis.

**Title of the paper: ECS3.6: Karnataka Economy**

**Course Outcomes:**

- CO1: Assess and explain the status of Karnataka economy.
- CO2: Make an evaluation of status of infrastructure in Karnataka and propose for additions further improvements.
- CO3: Participate in the discussion on financial health of Karnataka.
- CO4: Demonstrate the knowledge of the problems of Karnataka economy.

**Title of the paper: ECO3.7: Resource Economics**

**Course Outcomes:**

- CO1: Re-examines the status of resources.
- CO2: Evaluate the role of environment in agriculture development.
- CO3: Show concerns and the awareness about environment.
- CO4: Explain how to manage natural resources.

**Title of the paper: ECO3.8 : Industrial Economics**

**Course Outcomes:**

- CO1: Understand and use the theories in the process of industrialization.
- CO2: Evaluate the industrial market.
- CO3: Show a brief knowledge about accessibility to industrial finance.
- CO4: Understand the conditions of Industrial labors.
- CO5: Critically evaluate the Industrial Policies.

**Title of the paper: ECH4.1: International Economics**

**Course Outcomes:**

- CO1: Identify technologies to improve the trade relations.
- CO2: Explain the health of the economy for better understanding.
- CO3: Discuss basic knowledge over contemporary measurement of growth by studying theories.
- CO4: Re-examine the theories that helps to build strong economic models.

**Title of the paper: ECH4.2: Econometrics-II**

**Course Outcomes:**

- CO1: Show a better understanding of the relationship between the variables in the Econometric analysis.
- CO2: Analyze the economic phenomenon by applying regression with qualitative independent variables.
- CO3: Develop scientific economic models.

### **Title of the paper: ECS4.3: Development Issues of Indian Economy**

#### **Course Outcomes:**

- CO1: Reflect the basic knowledge about Indian Economy and use the information whenever the necessary.
- CO2: Evaluate the current status of the Indian agriculture sector.
- CO3: Examine the growth of Indian Industrial sector.
- CO4: Give explanation on Indian Banking system, role of money.
- CO5: Evaluate economic reforms in the Indian economy.

### **Title of the paper: ECS4.4: Environmental Economics**

#### **Course Outcomes:**

- CO1: Describe the relationship between environment and economic development based on theoretical background.
- CO2: Use the terms, concepts and methods to calculate the values of the environment.
- CO3: Discuss the environmental policy issues, this helps to frame sound environmental policies in future.
- CO4: Participate in the discussion on the status of environment in India and the problem of Natural resources.

### **Title of the paper: ECS4.5: Managerial Economics**

#### **Course Outcomes:**

- CO1: Be able to speak from an academic perspective on the nature of business firms.
- CO2: Apply the organization skill of business/firm while undertaking entrepreneurial ventures.
- CO3: Discuss theories of profit to ensure accurate investment decision.
- CO4: Explain the Pricing Practices and Strategies, manager can take correct decision about the firm.

**Title of the paper: ECS4.6: Urban Economics**

**Course Outcomes:**

- CO1: Examine the process of Urbanisation and urban labor market.
- CO2: Appraise the theories that help in the process of policy formation for the development urban areas.
- CO3: Study the consequences of urbanisation to take necessary measures to control urban pollution
- CO4: Evaluate the conditions of housing in urban areas

**Faculty of PG Studies in Statistics (M.Sc.)**

**Title of the paper: STH411 - Real Analysis**

**Course Outcomes:**

- CO1: Ability to describe the fundamental properties of real numbers that lead to the formal development of real analysis.
- CO2: Show familiarity with necessary mathematical foundations required for understanding different theoretical aspects in statistics.
- CO3: Understand the concept of limits and how they are used in sequence, series, differentiation and integration.
- CO4: Construct mathematical proofs for basic results involved in real analysis.

**Title of the paper: STS412 - Linear Algebra**

**Course Outcomes:**

- CO1: Awareness of necessary theoretical foundations on matrix algebra and vector geometry, which will help them better understand linear models and multivariate analysis.
- CO2: Ability to learn about the implementation of various mathematical aspects in practical problems.
- CO3: Develop algebraic skills and knowledge on computational techniques essential for the study of vector spaces, matrix algebra, linear transformations, systems of linear equations, eigen values and eigenvectors, and quadratic forms.
- CO4: Familiarity with the use of 'R' software in solving computational problems of linear algebra.

**Title of the paper: STH413 - Probability and Distributions – I**

**Course Outcomes:**

- CO1: Familiarity with necessary theoretical foundations on the developments of statistical concepts and develop problem solving skills.
- CO2: Ability to understand the fundamental aspects and principles of probability theory.
- CO3: Exhibit learning about the standard discrete and continuous univariate distributions and its characteristics.
- CO4: Show improved knowledge on various transformation techniques, order statistics, truncated and mixed distributions.

**Title of the paper: STH414 - Theory of Sampling**

**Course Outcomes:**

- CO1: Ability to understand the basic principles underlying survey design and estimation.
- CO2: Exhibit theoretical knowledge on various techniques used for designing and selecting a sample from a population.
- CO3: Show an increased learning about how to estimate finite population parameters.
- CO4: Ability to implement and analyze various sampling techniques to real life problems.

**Title of the paper: STE421 - Introductory Statistics and Data Analysis**

**Course Outcomes:**

- CO1: Explain the fundamental concepts, theorems and techniques of statistical analysis.
- CO2: Show an improved knowledge about statistical concepts such as descriptive statistics, probability theory and sampling techniques and understand its importance.
- CO3: Ability to apply relevant statistical tools to real life problems.
- CO4: Exhibit learning about standard univariate distributions such as binomial, Poisson and normal and understand its applications.

**Title of the paper: STH422 - Probability and Distributions - II**

**Course Outcomes:**

- CO1: Ability to understand the conceptual basis for the asymptotic theory.
- CO2: Familiarity with the characterization properties of the distributions.
- CO3: Understand the applications of theoretical aspects.
- CO4: Ability to solve problems by using the theoretical knowledge.

**Title of the paper: STH423 - Design and Analysis of Experiments**

**Course Outcomes:**

- CO1: Demonstrate necessary theoretical foundations on the fundamentals and principles involved in designed experiments.
- CO2: Exhibit theoretical knowledge on various experimental designs such as BIBD, nested designs, factorial experiments, split-plot designs, strip-plot designs, complete and partial confounding.
- CO3: Ability to construct standard experimental designs and identify the appropriate statistical models to analyze the data.
- CO4: Ability to understand the importance and applications of experimental designs in analyzing real life problems.

**Title of the paper: STH424 - Theory of Estimation**

**Course Outcomes:**

- CO1: Show an understanding of the random phenomenon of the character of interest.
- CO2: Exhibit familiarity with the estimation techniques.
- CO3: Be aware of the asymptotic behavior of estimation.
- CO4: Ability to understand the applications of theoretical aspects.

**Title of the paper: STS425 - Data Management and Statistical Computing with Python**

**Course Outcomes:**

- CO1: Be able to gain comprehensive knowledge on Python programming paradigms.
- CO2: Show an increased learning about the implementation of Python programming in data management and statistical computing.
- CO3: Exhibit insights on using Pandas in Python required for data manipulation.
- CO4: Be able to explore about how to generate powerful data visualizations using Python.

**Title of the paper: STE531 - Inferential Statistics and Data Analysis**

**Course Outcomes:**

- CO1: Be able to identify the basics of hypothesis testing and perform hypothesis test for mean, proportion and difference between means and proportions from two populations.
- CO2: Construct confidence intervals for mean and proportion.
- CO3: Conduct one-way analysis of variance hypothesis test.
- CO4: Apply non-parametric tests, correlation and regression techniques to real life problems.

**Title of the paper: STH532 - Theory of Testing of Hypothesis**

**Course Outcomes:**

- CO1: Develop various tests for the validity of different kinds of hypotheses.
- CO2: Show acquisition of adequate foundations on the fundamentals involved in testing of hypothesis and understand its importance.
- CO3: Show learning about the theoretical aspects of most powerful, uniformly most powerful, unbiased, likelihood ratio tests, interval estimation and its implementation in practical problems.
- CO4: Exhibit knowledge on various non-parametric tests and its applications in real life problems.



**Title of the paper: STH533 - Regression Analysis**

**Course Outcomes:**

- CO1: Understand the relationship between the response and the predictors and how the variation in response is explained by the predictors.
- CO2: Show an acquisition of necessary theoretical foundations on different regression techniques and its extensive use in data analysis.
- CO3: Skilled in model adequacy checking and regression diagnostics.
- CO4: Familiarity with the theoretical aspects of simultaneous equation models and identification problem.

**Title of the paper: STH534 - Stochastic Processes**

**Course Outcomes:**

- CO1: Elucidate the power of stochastic processes and their range of applications.
- CO2: Exhibit theoretical knowledge on modelling for sequence of non-independent random variables, which are extensively used in the analysis of time dependent data.
- CO3: Demonstrate essential stochastic modelling tools including Markov chains, renewal theory and branching process.
- CO4: Formulate and solve problems which involve setting up stochastic models.

**Title of the paper: STS535 - Multivariate Analysis**

**Course Outcomes:**

- CO1: Show an acquisition of necessary theoretical foundations on various statistical techniques for analyzing vector-valued random entities.
- CO2: Exhibit theoretical knowledge on various multivariate techniques such as principal component analysis, cluster analysis, classification and discrimination.
- CO3: Apply the multivariate techniques in solving real life problems.
- CO4: Understand the extensive use of multivariate techniques in data analysis.

**Title of the paper: STH541 - Time Series Analysis**

**Course Outcomes:**

- CO1: Demonstrate advanced understanding of the concepts of time series and their applications in real life.
- CO2: Apply the concept of stationarity to the analysis of time series in various contexts.
- CO3: Implement Box-Jenkins approach to model and forecast time series data empirically.
- CO4: Develop fundamental research skills in applied time series analysis.

**Title of the paper: STH542 - Reliability and Survival Analysis**

**Course Outcomes:**

- CO1: Show an increased learning about reliability techniques and statistical lifetime models used in medical sciences and industries.
- CO2: Show an acquisition of necessary theoretical foundations on the fundamentals of reliability theory and understand its importance in industrial applications.
- CO3: Understand different censoring situations and importance of estimating survival rate and hazard rate.
- CO4: Show an improved knowledge about the developments of various reliability and survival models and its implementation in real life problems.

### **Title of the paper: STS543 - Statistical Modelling**

#### **Course Outcomes:**

- CO1: Exhibit theoretical knowledge on Bayesian and non-parametric techniques for the data analysis and inference.
- CO2: Explain the Bayesian framework for data analysis and demonstrate when the Bayesian approach can be beneficial.
- CO3: Understand the importance of some advanced statistical concepts such as non-parametric density estimation, non-parametric regression and resampling techniques.
- CO4: Exhibit theoretical knowledge on some advanced regression techniques such as logistic, multi-logit, count data, and log linear regression and understand its applications.

### **Title of the paper: STS544 - Big Data Analytics**

#### **Course Outcomes:**

- CO1: Ability to understand the theoretical aspects involved in big data.
- CO2: Implement Hadoop ecosystem tools in solving big data problems.
- CO3: Explore the concepts and techniques involved in business intelligence used for decision making purpose.
- CO4: Show an understanding of theoretical knowledge on various data mining techniques such as neural networks, association rule mining, text mining, web mining and social network analysis.

## **Faculty of PG Studies in English (M.A)**

### **Title of the paper: ENG01HC: British Literature: Medieval Period to Restoration**

#### **Course Outcomes:**

- CO1: Remember the socio- historical background to the medieval society of England, its social structure and relate the growth of language to the social milieu
- CO2: Trace the growth of literature in English language from Chaucerian Age through Elizabethan Age to the events leading to Restoration
- CO3: Identify and appreciate different forms of early English Literature produced in the period such as ballads, court poetry, sonnets, epics, lyrics, and plays by studying representative texts
- CO4: Acquire a synthetic view of the 14th, 15th, 16th, and 17th century British literature and employ tools of literary appreciation and use their understanding of later movements.

### **Title of the paper: ENG02HC: British Literature- Eighteenth and Nineteenth Century**

#### **Course Outcomes:**

- CO1: Trace the historical and social development of the eighteenth and nineteenth century Europe
- CO2: Observe the implications of the major European socio political events on the British literary works
- CO3: Identify the salient features of the Neo classical and the Romantic literary works
- CO4: Deploy the relevant critical and theoretical ideas in the interpretation of the literary works of the period

**Title of the paper: ENG03HC: American Literature**

**Course Outcomes:**

- CO1: Describe the major conventions, tropes, and themes of Enlightenment literature.
- CO2: Demonstrate fluency in communication.
- CO3: Identify salient features of literary texts from a broad range of American literature.
- CO4: Express themselves effectively in a variety of forms, Identify and discuss those features with regard to individual authors/works.

**Title of the paper: ENG04SC: Indian Literature in English Translation**

**Course Outcomes:**

- CO1: Support interpretive claims about a variety of texts.
- CO2: Demonstrate quantitative fluency and specialized knowledge/applied learning.
- CO3: Analyze literary works for their structure and meaning, using correct terminology.
- CO4: Gather advanced knowledge in the academic disciplines like translation studies.
- CO5: Receive fairly good knowledge of the literature written in English by non-British writers as well as the literatures written in other languages and translated into English.

**Title of the paper: ENG05SC - Introduction to English Language and Linguistics**

**Course Outcomes:**

- CO1: Articulate general issues concerning nature & function of language- phonetics, phonology, morphology, syntax, semantics, and pragmatics.
- CO2: Exhibit acquired knowledge of the ways different human languages embody these mechanisms and analyze specific sounds & understand systematic properties of sound system of English.
- CO3: Recognize and analyze the grammatical system of English and other languages and also the structure and function of language as used in natural discourse.
- CO4: Compare and contrast languages in terms of systematic differences in phonetics, phonology, morphology, syntax, semantics, and pragmatics.
- CO5: Understand and analyze the link between language and various dimensions of culture.
- CO5: Be aware of the cognitive and social dimensions of first and second language acquisition.
- CO6: Show familiarity with the principles of first and second language acquisition and to apply them in appropriate context

**Title of the paper: ENG06SC: Early Indian Writing in English**

**Course Outcomes:**

- CO1: Trace the social, cultural and historical contexts of the texts
- CO2: Analyze the texts in terms of style, figurative language, and literary conventions
- CO3: Apply relevant literary theories in the interpretations of the texts
- CO4: Identify the rhetorical modes used in the texts

**Title of the paper: ENG07HC: British Literature: The Victorian Period**

**Course Outcomes:**

- CO1: Relate the knowledge of the socio- political and socio literary factors that gave rise to Victorian Complacency, Prudery to the literary productions of this period
- CO2: Analyze the impact of scientific discoveries and the intellectual strife that the age encountered as well as the way in which literary figures responded to it
- CO3: Interpret the texts to explore the moral and intellectual conflict
- CO4: Evaluate critically the texts written in this period and conclude on ways culture and art could offer antidotes to strife and anarchy.

**Title of the paper: ENG08HC: British Literature- Twentieth Century  
Poetry**

**Course Outcomes:**

- CO1: Trace the intellectual underpinnings of Modernism
- CO2: Identify the features of Modern Poetry
- CO3: Interpret the literary compositions of the period against the background of the major political events that shaped them
- CO4: Identify and interpret the stylistic devices used in the poetry of the 20th century

**Title of the paper: ENG09HC: Literary Criticism: Plato to F. R. Leavis**

**Course Outcomes:**

- CO1: Develop appropriate level of critical and creative thinking skills.
- CO2: Get oriented to the intricacies of studies and research in literature and criticism.
- CO3: Demonstrate a thorough knowledge of various literary theories and the ability to employ those theories in analyzing and interpreting various texts.
- CO4: Demonstrate proficiency in critical thinking and Learn to articulate verbally and in writing critical papers.

**Title of the paper: ENG10SC: Gender Studies**

**Course Outcomes:**

- CO1: Demonstrate knowledge of the history or culture of the English language.
- CO2: Ability to analyze how literature has been used as a tool of marginalization in terms of gender, class, caste, religion, ethnicity etc.
- CO3: Demonstrate knowledge of how literature has also been used as a tool to fight against marginalization of various sorts.
- CO4: Gather advanced knowledge in the academic disciplines like gender studies.

**Title of the paper: ENG11SC: Film Studies**

**Course Outcomes:**

- CO1: Display a working knowledge of film techniques, offering descriptive examples from films.
- CO2: Identify and describe distinct cinematic elements pertaining to genres and directors.
- CO3: Analyze films for their structure and meaning, using appropriate terminology.
- CO4: Write analytically about films using MLA guidelines.
- CO5: Effectively communicate ideas related to the films during class and group activities.

**Title of the paper: ENG12SC - Partition Narratives**

**Course Outcomes:**

- CO1: Appreciate the historic relationship between India and Pakistan.
- CO2: Summarize and contextualize the events and opinions surrounding the Partition of India.
- CO3: Demonstrate awareness about the culture and cultural diversity of the countries.
- CO4: Demonstrate the value of cultural diversity, as well as cohesion, within and across groups.
- CO5: Demonstrates the awareness of how the data and experiences may be interpreted by people from diverse cultural perspectives and frames of references.

**Title of the paper: ENG13OE – Functional English**

**Course Outcomes:**

- CO1: Demonstrate English language skills in listening, speaking, reading and writing in various professional situations
- CO2: Use strategies, such as contextualization of new vocabulary, previewing, skimming and scanning techniques, and knowledge of text organization and discourse markers, in the comprehension of written and spoken language;
- CO3: Use grammatically correct and situationally and culturally appropriate language in speaking and writing for effective communication in a variety of interpersonal and academic situation
- CO4: Show a cross-cultural understanding and confidence in using language through collaboration with increased interaction within the professional circles and the larger community in order to complete the projects undertaken.



**Title of the paper: ENG14OE – Popular Literature / Culture**

**Course Outcomes:**

- CO1: Interpret texts with attention to ambiguity, complexity, and aesthetic value.
- CO2: Practice a deliberate writing process with emphasis on inquiry, audience, research, and revision
- CO3: Evaluate genres of writing and write in appropriate genres and modes for a variety of purposes and audiences
- CO4: Read diverse texts within their historical and cultural contexts, developing a critical understanding of how literature can both uphold and resist existing structures of power
- CO4: Deploy ideas from works of criticism and theory in their own reading and writing
- CO5: Participate in critical conversations and prepare, organize, and deliver their work to the public.

**Title of the paper: ENG15HC: Twentieth Century Fiction and Drama**

**Course Outcomes:**

- CO1: Trace the major socio political events of Europe during the early decades of the twentieth century
- CO2: Trace the scientific inventions and theories that shaped the narrative techniques of Modern fiction
- CO3: Review the major movements of the British theatre during the 20th century period
- CO4: Interpret the fiction and drama of the period with reference to the major socio political events that shaped them

**Title of the paper: ENG16HC – Contemporary Literary Criticism and Approaches**

**Course Outcomes:**

- CO1: Identify major theoretical/critical movements and theorists, as well as primary concepts with which they are associated
- CO2: Define and apply specific theoretical concepts, theories, and terms to literary and cultural texts - Use online databases to define key terms and trace implications in source texts;
- CO3: Evaluate and analyze strengths and limitations of critical/theoretical arguments
- CO4: Examine historical contexts for the development of contemporary theory and criticism
- CO5: Strengthen and deepen critical reading, writing, and interpretive ability

**Title of the paper: ENG17SC: English Language Teaching**

**Course Outcomes:**

- CO1: Differentiate the objectives and approaches in teaching English as a second language, as a foreign language, as an additional language- this define ones approach
- CO2: Demonstrate the knowledge of various theories on human learning and apply these to language teaching and learning
- CO3: List out the different methods of language teaching and analyze their effectiveness and apply these methods in the actual classes besides preparing lesson plans for teaching language
- CO4: Review the patterns of study behavior and draft sample modules for ‘Bridge Courses’ and ‘getting Remedial Courses’ alongside assembling various study skills.

**Title of the paper: ENG18SC: Dalit Literature**

**Course Outcomes:**

- CO1: Gather advanced knowledge in the academic disciplines like Dalit studies. And feel competent to discuss topics for this course beyond the classroom setting.
- CO2: Understand the complex relationship between literature & society that produces it and understand the intricacies of social class and caste in India.
- CO3: Exhibit a working knowledge of the caste system and its modern manifestations in India.
- CO4: Get foundational knowledge about the concerns raised by dalit writings and understand the dynamics of oppression practiced over the years by various societies.

**Title of the paper: ENG19SC: The Study of Drama and Theatre**

**Course Outcomes:**

- CO1: Demonstrate the understandings of the major social and theatre movements that shaped the world drama and theatre.
- CO2: Show the understanding of the connections between theatrical productions and social contexts.
- CO3: Interpret the dramas using stylistics as well as theories.
- CO4: Interpret the historical, social, political, and religious relevance of the plays of different periods.

**Title of the paper: ENG20SC - Study of Life Narratives.**

**Course Outcomes:**

- CO1: Employ knowledge of literary traditions to produce imaginative writing.
- CO2: Demonstrate expected level of expertise in literary history and literary theory.
- CO3: Demonstrate the insights to correlate the literary texts and the socio-political cultural environment in which they are produced.
- CO4: Demonstrate appropriate level of competence in the use of English for personal and academic purposes.

**Title of the paper: ENG21OE: Individual Development and Communication Skill**

**Course Outcomes:**

- CO1: Trace how the human development came to be seen as both possible and desirable based on the theories of Nurture - Nature
- CO2: Assess frequently personal strengths and weaknesses for setting higher level goals and planning
- CO3: Make effective presentations both in the oral and written modes in the academic assemblies
- CO4: Demonstrate the skills and competencies in arguments, interviews and other similar situations

**Title of the paper: ENG22OE: Writing for the Media**

**Course Outcomes:**

- CO1: Show in writing the knowledge of fundamentals of text beginning with conventions of grammar, punctuation, paragraphing etc.
- CO2: Deploy the language skills in content development, story writing, reports for the media
- CO3: Demonstrate the etiquettes and practices in the media and develop skills to attain excellence in written and oral presentation
- CO4: Operate with profession competence in such tasks as public speaking, panel discussion, using both technical and professional skills.

**Title of the paper: ENG23HC: Modern Indian Writing in English**

**Course Outcomes:**

- CO1: Trace the growth of Indo Anglian literature and analyze the major themes that found favor with the writers and compare it with present ones
- CO2: Identify the patterns in the contemporary writings with regard to themes and style and relate it to the socio political issue of the time
- CO3: Compare and contrast Indo Anglian literary production with the writings elsewhere on the global scene
- CO4: Examine the possibilities of using native wisdom and experience to push the boundaries of prescriptive notions of themes and styles.

**Title of the paper: ENG24SC: Postcolonial Literature**

**Course Outcomes:**

- CO1: Define and explain terms and concepts such as ‘colonialism’, ‘post colonialism’, ‘imperialism’
- CO2: Apply these concepts and approaches to literature produced in Asia and Africa and draw conclusions from the western attitude towards the ‘Oriental’ and the ‘Third World’
- CO3: Recognize the need to accept alternative theories to accept and appreciate literature that defy the colonial works
- CO4: Construct ways of including ‘subaltern’ and ‘other’ works as articulations of the ‘non west’ and this encouraging extension of the boundaries of English literature

**Title of the paper: ENG25SC-Translation Theory and Practice**

**Course Outcomes:**

- CO1: Use the knowledge of translation theory and terminology relevant to practical translation
- CO2: Provide competent translations of general texts
- CO3: Describe, analyze and explain the nature of translation difficulties both informally in discussion and formally in writing
- CO4: Recognize and handle different registers and genres in both the Source and Target Languages of texts for translation

**Title of the paper: ENG26SC: Cultural Studies**

**Course Outcomes:**

- CO1: Demonstrate knowledge of the history or culture of the English language.
- CO2: Display high order critical and analytical skills in interpreting literary and cultural texts.
- CO3: Exhibit a comprehensive knowledge of the socio-political-cultural events of the past centuries in relation to the literatures of those ages.
- CO4: Develop fairly good understanding of the field of culture studies and demonstrate that understanding in analyzing cultural artifacts at local and global level.

**Title of the paper: ENG27SC: European Novel**

**Course Outcomes:**

- CO1: Review the social and political history of Europe during the late 19th and the early 20th Century
- CO2: Interpret the novels examining the responses of the authors to these historical events
- CO3: Define the major philosophies of the period and deploy them in the interpretation of Modern European novels
- CO4: Participate in critical discussions related to their present day relevance of these literary texts

**Title of the paper: ENG28SC: Research Methodology**

**Course Outcomes:**

- CO1: Demonstrate the ability to choose methods appropriate to research aims and objectives
- CO2: Understand the limitations of particular research methods
- CO3: Develop advanced critical thinking skills
- CO4: Demonstrate enhanced writing skills
- CO5: Undertake independently research projects on literary works or based on surveys

**Title of the paper: ENG29SC: Afro-American Literature**

**Course Outcomes:**

- CO1: Read independently and appreciate the texts of Anglophone literature written in Africa and America that articulate the experiences of the black writers
- CO2: Apply such ideas/ practices/ movements as racism, Negritude to these literary texts and relate it to various attitudes such as dehumanization, condescension and negritude.
- CO3: Appraise the value and worth of protest literature, post-colonial literature, subaltern literature and how discrimination and subjugation affects literary expression
- CO4: Interpret and analyze literary texts produced in diverse contexts and redefine the objectives and aspirations of literary production.

**Title of the paper: ENG30RP: Research Project**

**Course Outcomes:**

- CO1: Demonstrate the ability to carry out substantial research based project
- CO2: Demonstrate capacity to identify relevant secondary sources and analyze them to arrive at new findings
- CO3: Analyze data and identify research findings.
- CO4: Produce a dissertation of a maximum of fifty to seventy pages on a relevant research topic.
- CO5: Demonstrate the skill of citing sources, writing bibliography, pagination, using punctuations, chapter divisions, reviewing literature etc.

*Clark Landry*  
PRINCIPAL

## PRINCIPAL

SDM College (Autonomous)

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