

# **Sri Adichunchanagiri College of Arts and Commerce**

**Nagamangala, Mandya District-571432**

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## **LEARNING OUTCOME :**

### **POs, PSOs and Cos**

- [Kannada UG](#)
- [English UG](#)
- [Opt. English UG](#)
- [Economics UG](#)
- [History UG](#)
- [Political Science UG](#)
- [Sociology UG](#)
- [Geography UG](#)
- [Commerce UG \(B.Com\)](#)
- [Commerce PG \(M.Com\)](#)
- [BBA](#)
- [Physics UG](#)
- [Chemistry UG](#)
- [Mathematics UG](#)
- [Computer Science UG](#)

**Sri Adichunchanagiri College of Arts and Commerce**  
**Nagamangala - 571432**



**Course Outcomes : BA - Department Of Kannada**

**Semester I : Kalagangothri, Part-1 (Padhya and Gadya)**

**Poem:**

- ❖ Understanding the concepts of current trend of God by Kuvempu.
- ❖ Identify the influence of youth after independence by G.K. Adiga
- ❖ People are influenced to mechanical life not opened their eyes to feelings of humanity by G.S. Shivarudrappa..
- ❖ Gandhian Era past and present by C.P.Krishnakumar.
- ❖ Influence of sunrise to common people by Krishna Alanahalli
- ❖ Join hands to stop women harassment by Vijaya Dabbe
- ❖ Literacy light will influence human life by L. Hanumanthaiah
- ❖ Buddha preached peace but people follow violence by Ariptharaj

**Prose:**

- ❖ Independence struggle, movement and patriotism by Aanakru
- ❖ Women's world is penned with sensitive feelings by Vinaya Vokunda
- ❖ Discrimination between city and village by Pu.Ti.Na.
- ❖ Dr. Rajkumar's personality is introduced by Baraguru Ramachandrappa.
- ❖ Dalit or untouchable literacy can lead to achievement by Devanuru Mahadeva.

**Semester II : Kalagangothri, Part-2 (Nataka and Kadambari)**

**Nataka:**

- ❖ Identify in depth Giliyu Panjaradolilla drama by P.Lankesh.
- ❖ Specifying in details with example Pampa Bharatha by K.Y.Narayanaswamy.
- ❖ Identify the classification and characteristics of Santhimmi Purana by Dhu. Saraswathi

**Kadambari:**

- ❖ Detailed story and characters comes in the Novel Malegalalli Madhu Magalu by Kuvempu.
- ❖ Complete explanation of story and characters comes in the Novel Gandhi Bandha by H. Nagaveni
- ❖ Character Analysis in Krishna Mudrike by C.Mangala.

  
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**Semester III : Kalagangothri Part-3 (Kavya and Khathana)**

**Nadugannada Kavya :**

- ❖ Brother Sister Relationship in Folklore
- ❖ The Vachanagalu
- ❖ Identify the classification and characteristics of poems of Rathnakaravarni and Kumaravyasa.
- ❖ Sorrow of a Mother who lost her son by Shadakshari
- ❖ Description of speech and work by Someshwara.

**Kathana:**

- ❖ Environmental Knowledge, Protection of Wild life and Forest.
- ❖ Muslim Women- Independence through Education.
- ❖ Sailor's story in Neroda by H.S.Anupama.
- ❖ Human feelings to the accident person by A.R.Mithra.
- ❖ Autobiography of Imam Quasim by M. Siddappa.

**Semester IV : Kalagangothri, Part-4 (Kavya and Bhashe)**

**Halagannada Kavya**

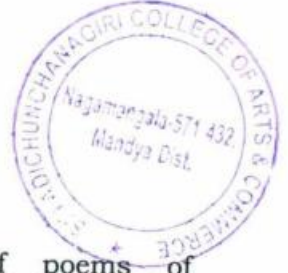
- ❖ Sudhameye Prasanga by Shivakotyacharya
- ❖ Neelanjayena Nruthya by Pampa
- ❖ Dhruyodhana Vilapa by Ranna
- ❖ Thupperida Darpanadol by Janna
- ❖ Karana Vighatane by Nagachandra
- ❖ Vachanagalu by P.K. Rajashekar

**Bhashe:**

- ❖ Learning of writing a letter
- ❖ Types: Official and personal letter writing, circulars, Advertisement, Publication letters, Report writing and Computer knowledge in Kannada.

  
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## Course Outcomes : B. Com & BBA -Department Of Kannada

### Semester I : Vanijya Gangothri – 1 (Padhya and Gadya)

#### Padhya:

- ❖ Prayer about devotion by B.M. Sri.
- ❖ Money madness- Raising the voice towards the poor Kurudu Kanchana by D.R. Bendre.
- ❖ Depicting about the present society which is not going in right direction by Sujana.
- ❖ Relationship of Mother and Daughter by K.S. Na.
- ❖ Dream's of common man by K.S. Nisar Ahamahad.
- ❖ Raising a voice of women I Men dominated society by Cha. Sarvamangala.
- ❖ Distribution of work between Men and Women by Hema Pattanashetty.
- ❖ Harassment of people by social disaster untouchability by Mudnakudu Chinnaswamy.

#### Gadya:

- ❖ Depicting the reality of village life by Besagarahalli Ramanna.
- ❖ Living together relationship before marriage is not good to our society by Abdul Rashid.
- ❖ How to leading life after happily after death of our loved one by Prabhushankar.
- ❖ Influence of reading books on youth by K.S. Bhagavan.
- ❖ Effect of Deforestation on Environment by Nagesh Hegade.

### Semester II : Vanijya Gangothri – 2 (Nataka and Kadambari)

#### Nataka:

- ❖ Yashodhara (selected Scenes) by Srinivasa.
- ❖ Eakalavya (selected Scenes) by Siddalingaiah
- ❖ Bandaro Bandaru by Dr. Vijaya

#### Kadambari:

- ❖ MaraliMannige by Dr. Shivaram Karanth
- ❖ Vaishaka by Chaduranga
- ❖ Gathi by B.T. Lalitha Nayak

### Semester III : Vanijya Gangothri – 3 (Kavya and Kathana)

#### Nadugannada Kavya :

- ❖ Learning depth – Folk Literature.
- ❖ Understand in details with examples –Vachanas.
- ❖ Learn in details with examples selected poems of Ragavanka.



- ❖ Learn in details with examples selected poems of Chamarasa.
- ❖ Learn in details with examples selected poems of Lakshmisha.
- ❖ About Women's culture, religion as a wife and mother-in-law.

**Kathana :**

- ❖ Impact of Environment in Western Ghats by Nagesh Hegde.
- ❖ Glimpses of Indian Culture by Sanjeevaraya.
- ❖ Cultural Bioscope of London city and description about historical buildings by K.Ramanna.
- ❖ Modern daughter-in-laws life style by T. Sunandamma.
- ❖ Money Madness by G. Chandrashekara.

**Semester IV: Vigyana Gangothri - 4 (Kavya and Bhashe)**

**Halagannada Kavya :**

- ❖ Selected Part of poems of Nayasena.
- ❖ Selected Part of poems of Pampa.
- ❖ Selected Part of poems of Nagachandra.
- ❖ Selected Part of poems of Ranna.
- ❖ Selected Part of poems of Nagavarma-I.
- ❖ Malle Mahadeshwara Kavya by P.K. Rajashekar.

**Bhashe:**

- ❖ Writing skills of writing a business letter, parts of the letter.
- ❖ Govt. Official letter writing.
- ❖ Advertisement, Pamphlet, Banner, Poster.
- ❖ Reporting writing.
- ❖ Computer Knowledge in Kannada.

  
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## Course Outcomes : B.Sc., - Department Of Kannada



### Semester I : Vijnana Gangothri – 1 (Padhya and Gadya)

#### Padhya :

- ❖ About Principles of Life by D.V.G
- ❖ Character of Malli by G.P. Rajarathnam.
- ❖ About Modern Civilized World by Channaveera Kanavi
- ❖ Influence of Mother and Mother Land on a person by Gangadhara Chittala.
- ❖ Identifying the reality of life by Chandrashekara Kambara.
- ❖ Prediction about science and technology by Aravinda Malagathi
- ❖ Treating of Devadasi in society by Sukanya Maruthi
- ❖ Confidence building in women's life by Roopa Hassana.

#### Gadya:

- ❖ Classification of all sex and creed as same in society by Basavaraja Kattimani.
- ❖ Care about a women in society by Nemichandra.
- ❖ Charactering Shalusabhi by Goruru Ramaswamy iyengar.
- ❖ Autobiography of M.D. Nanjundaswamy by B.N. Mayura
- ❖ Knowing Medicinal Plants in forest, about wild life by K.P. Poornachandra Tejaswi.

### Semesterii : Vijnana Gangothri – 2 (Nataka and Kadambari)

#### Nataka:

- ❖ Complete Drama – Maa Nishadha by Girish Karnad
- ❖ Complete Drama – Shakshikallu by Go.Ru. Channabasappa
- ❖ Complete Drama – Sacristies by R.D. Kamath.

#### Kadambari:

- ❖ Selected Parts of the novel Bekkina Kannu by Thriveni
- ❖ Selected Parts of the novel Karvalo by K.P. Poornachandra Tejaswi
- ❖ Selected Parts of the novel Parva by S.L. Bairappa.

### Semester III : Vijnana Gangothri – 3 (Kavya and Kathana)

#### Nadugannada Kavya :

- ❖ The Principle of Life
- ❖ Vachanagalu
- ❖ Selected poems from Harihara
- ❖ Selected poems from Kanakadasa
- ❖ Selected poems from Nanjunda Kavi
- ❖ Pray for rain by Helavana Katte Giryamma
- ❖ Keerthane by Mahipathidasa.

**Kathana:**

- ❖ Mildness of a growing plant by Sheerasagara
- ❖ About a motherhood by Ravindra Bhatt
- ❖ Describing the ocean life by Rahamath Tarikere
- ❖ Childhood stores of Ramayana by Kuvempu
- ❖ Essays about local Market place by G.V. Anandamurthy

**Semester IV: Vijnana Gangothri – 4 (Kavya and Bhashe)****Halagannada Kavya :**

- ❖ Yeradu Giliya Kathe by Dhurghasimha
- ❖ Selected poem by Pampa
- ❖ Selected poem by Ranna
- ❖ Selected poem by Janna
- ❖ Selected poem by Nagavarma-I
- ❖ Janapada Mahabharatha by P.K. Rajashekar

**Bhashe:**

- ❖ General Letter, Requisition Letter
- ❖ Official Letters, Government letters, circular, Remainder letters
- ❖ Advertisement, Pamphlet, Banner, Poster
- ❖ Reporting writing
- ❖ Computer Knowledge in Kannada.



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**Department of English 2016-17**

**Department of English**  
**Language English Syllabus for the**  
**Academic Year (2015-16 thereafter)**



**Department Overview:**

The Department of English at Sri Adichunchanagiri concentrates on providing an overview of Literature from aesthetic, linguistic, socio-political and cultural contexts. Students of literature are encouraged to develop a unique subjective objectivity that helps them in self-exploration.

**Mission Statement:**

The Department of English aspires to promote an intellectual climate through artistic creation, critical mediation and innovative ideation in a culture of reciprocal transformation.

**Introduction to Program:**

The Degree programme in Optional English and General English aspires to sustain and revive an academic interest in literary and cultural theories. The papers offered are as contemporarily relevant as possible, even eclectic. However, a conscious effort has been made to ensure that theories are grounded in textual readings, wherever possible. Testing and evaluation patterns aim at fostering a culture of research rather than an exam driven system, which will enhance student reading and creativity. In keeping with practical demands, ELT, communication study papers and the internship component are skill based and endeavor to make the programme application oriented.

**Program Objective:**

The programme hopes to prepare students for the challenges of a teaching career through teaching assistantships that afford practical experience in lecture preparation, material production and testing practices. ? In keeping with the growing interest in literature, most of the papers redefine ?text? by introducing non-conventional texts and areas of study. ? The internship aims at hands-on job experience as well as research avenues. ? Workshops, seminars and projects, apart from being the existing methodology of teaching will also ensure exposure to expert views and global trends in the areas of literary and cultural theories.

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**Department of English 2018-19**

Language English for Faculty of arts and Faculty of Science

Semester	Course	TITLE of The Paper	L-T-P	Credits
I	Eng-1	Semiosis-I	2-1-0	3
II	Eng-2	Semiosis-II	2-1-0	3
III	Eng-3	Untouchable and Language Component	2-1-0	3
IV	Eng-4	Julius Caesar and Language Component	2-1-0	3

ProgrammeBA/BSC

Chapter Specific Course Outcomes for General English

Semester I

- CO 1: Analyzing poetry to understand social issue through literature
- CO 2: To move with prose it talks about social awareness in society
- CO 3: Helps student to analyze the significance of myths and re-reading classics in which classified under broad themes.
- CO 4: Student will cultivate how to develop passage and improves their speaking or listening skill.
- CO 5: How to communicate and from a grammatically impressed discourse

Semester II

- CO 1: Observing the pan global cultures, values, traditions and lifestyle through the short stories and Travelogue
- CO 2: Analyzing prose section totally talks about how people struggled to get freedom and their struggling to reach their goal
- CO 3: Students develop their ability in communicating skills like writing paragraphs, framing question, punctuation and analyzing paragraph.

Semester III

- CO 1: The literary text provides powerful contexts to understand human situations in our world and show how they are expressed in English language.
- CO 2: Understanding the disturbing anti-social practices prevalent in society like discrimination on the basis of class, creed, race, gender, language, religion and nationality.
- CO 3: Awareness of the socially neglected yet powerful literary genres like Dalit Literature
- CO 4: Develop the sensitivity towards the Social issues with the help of author like, MULKRAJANAND.

Semester IV

- CO 1 : Introducing them to the different genre of literature by introducing to drama
- CO 2: Practical knowledge of how to face interviews, writing letters, reports, reviews, poetry, acknowledgements and references
- CO 3 : Develop sensitivity with the help of Plays
- CO 4 : Critically appreciate and analyze the drama.

## Programme BCom/BBA

### Chapter Specific Course Outcomes for General English

#### Semester I

- CO 1: Analyzing poetry to understand social issue through literature
- CO 2: Identify and overcome the prejudices in society with help of short stories
- CO 3: Improving reading, listening and speaking skill along with basic sentence formation lessons
- CO 4: Differentiating the genres of literature
- CO 5: Developing aesthetic, realistic and metaphorical views and importance of water through the poetry and short stories

#### Semester II

- CO 1: Analyzing topics based on contemporary pragmatism and how to deal with it.
- CO 2: Explaining the struggle of freedom and struggle to survive with the freedom.
- CO 3: Applying the mind to reciprocate with the modern values and age old traditions through short stories.
- CO 4: Differentiating and appreciating the village culture and urban lifestyle and to explore people, culture and literature.
- CO 5: Students develop ability to communicate confidently with the help of exercises like writing paragraphs, framing question and analyzing paragraph.

#### Semester III

- CO 1: Incepting moral values, cultures, traditions and lifestyle through the novel like, The Alchemist.
- CO 2: Develop the sensitivity towards the Social issues with the help of author like, Paulo Coelho.
- CO 3: Analyzing prose to understand peculiarities and patterns of human behavior
- CO 4: Students develop their ability in communicating skills like, framing sentences, identifying adverbs and analyzing paragraph.

#### Semester IV

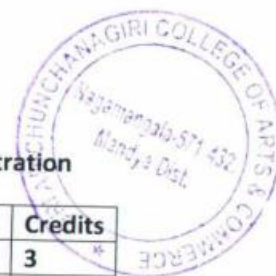
- CO 1: Practical knowledge of how to face interviews, writing different kind of letters, reports, reviews, poetry, acknowledgements and references.
- CO 2: Introducing them to the different Letter writings like, Business Correspondence.
- CO 3: Introducing them to critically examine the problems.

  
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## Programme B.Com/BBA

Language English for Faculty of Commerce and Faculty of Business Administration



Semester	Course	TITLE of The Paper	L-T-P	Credits
I	Eng-1	Intellection-I	2-1-0	3
II	Eng-2	Intellection -II	2-1-0	3
III	Eng-3	The Financial Expert and Language Component	2-1-0	3
IV	Eng-4	Business Correspondence , Refund and Language Component	2-1-0	3

### Semester I

- CO 1: Analyzing poetry to understand social issue through literature
- CO 2: Identify and overcome the prejudices in society with help of short stories
- CO 3: Improving reading, listening and speaking skill along with basic sentence formation lessons
- CO 4: Differentiating the genres of literature
- CO 5: Developing aesthetic, realistic and metaphorical views and importance of water through the poetry and short stories

### Semester II

- CO 1: Analyzing topics based on contemporary pragmatism and how to deal with it.
- CO 2: Explaining the struggle of freedom and struggle to survive with the freedom.
- CO 3: Applying the mind to reciprocate with the modern values and age old traditions through short stories.
- CO 4: Differentiating and appreciating the village culture and urban lifestyle and to explore people, culture and literature.
- CO 5: Students develop ability to communicate confidently with the help of exercises like writing paragraphs, framing question and analyzing paragraph.

### Semester III

- CO 1: Incepting moral values ,cultures, traditions and lifestyle through the novel like, THE FINANCIAL EXPERT
- CO 2: Develop the sensitivity towards the Social issues with the help of author like, R K NARAYAN.
- CO 3: Analyzing prose to understand peculiarities and patterns of human behavior
- CO 4: : Students develop their ability in communicating skills like, framing sentences, identifying adverbs and analyzing paragraph

### Semester IV

- CO 1 : Practical knowledge of how to face interviews, writing different kind of letters, reports, reviews, poetry, acknowledgements and references
- CO 2 : Introducing them to the different genre of literature by introducing to play like, REFUND
- CO 3: Introducing them to critically examine the problems.

  
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**Programme BA/BSC**

**Chapter Specific Course Outcomes for General English**

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- CO 3: Awareness of the socially neglected yet powerful literary genres like African Literature
- CO 4: Develop the sensitivity towards the Social issues with the help of author like, Chinua Achebe.

**Semester IV**

- CO 1: Introducing them to the different genre of literature by introducing to drama.
- CO 2: Practical knowledge of how to face interviews, writing letters, reports, reviews, poetry, acknowledgements and references.
- CO 3: Develop sensitivity with the help of Plays.
- CO 4: Critically appreciate and analyze the drama.



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**PROGRAMME OUTCOMES AND COURSE OUTCOMES**

B.A ENGLISH Optional PROGRAMME Objectives  
**Language Outcomes**

- ✓ Educate students in both the artistry and utility of the English language through the study of literature and other contemporary forms of culture.
- ✓ Provide students with the critical faculties necessary in an academic environment, on the job, and in an increasingly complex, interdependent world.
- ✓ Graduate students who are capable of performing research, analysis, and criticism of literary and cultural texts from different historical periods and genres.
- ✓ Assist students in the development of intellectual flexibility, creativity, and cultural literacy so that they may engage in life-long learning.

**Course Outcomes**

**On completion of the course, students will :**

- ✓ Students should be familiar with representative literary and cultural texts within a significant number of historical, geographical, and cultural contexts.
- ✓ Students should be able to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres.
- ✓ Students should be able to identify, analyze, interpret and describe the critical ideas, values, and themes that appear in literary and cultural texts and understand the way these ideas, values, and themes inform and impact culture and society, both now and in the past.
- ✓ Students should be able to write analytically in a variety of formats, including essays, research papers, reflective writing, and critical reviews of secondary sources.





**Semester IV DSC-D-Victorian Fiction**

- The students should have a thorough general awareness of Drama and its forms.
- The students are expected to think critically about different genres in Drama.
- Critically analyses different acts and structure of Drama.
- To know about the era in which drama was written.

**On completion of the course, students will :**

- Reading Novels
- To develop critical thinking in students.
- To enable them to write and appreciate different types of Novels.
- To know about the era in which Novels was written.

**Semester V DSE-A: Twentieth Century British and American Literature**

**On completion of the course, students will :**

- Become able to differentiate between judgment and appreciation.
- To get in touch with various movements and schools of thought.
- To equip them to attempt practical criticism of plays, passages and poems.
- Reading literary Criticism
- To introduce the students to the basic elements of literary Criticism
- To enrich the students through various perspectives readings in literary Criticism.
- Reading Fiction
- To develop critical thinking and imagination through long and short fiction and to.
- Familiarize students with cultural diversity through different representative samples of fiction.
- Reading Drama



**Semester VIDSE- B:New literatures in English**

- On completion of the course, the students should be familiar with the plays of master- dramatists and will have developed the ability to appreciate and evaluate various types of plays.

**On completion of the course, students will :**

- To lead to a greater understanding of the Indian writing In English.
- Human communicative action through an objective study of language.
- To familiarize students with the key concepts of Indian literatures in English, New Literatures in English, Introduction to Literary Theory.
- To develop awareness of the Indian literatures in English, New Literatures in English, Introduction to Literary Theory.
- Latest trends in Indian literatures in English, New Literatures in English, Introduction to Literary Theory.
- The students will be familiar with literary productions that address issues related to cultural identity, colonized societies.
- The development of a national identity after colonial domination, and the ways in which writers articulate and celebrate such identity.
- The students will have been acquainted with the resistance of the colonized against the colonizer through literature that articulates it.
- To provide an overview of the various phases of the evolution of Indian writing in English.
- To introduce students to the thematic concerns, genres and trends of Indian writing in English.

**Sri Adichunchanagiri College Of Arts and Commerce Nagamangala**

**DEPARTMENT OF ECONOMICS**

**PROGRAMME OUTCOMES**

- The students acquire knowledge in the field of social sciences, literature and humanities which make them sensitive and sensible enough to solve the issues related with financial matters of day to day life.
- The B A graduates will be acquainted with the social, economical, historical, geographical tradition and thinking.
- BA program enables the students to acquire the knowledge with human the knowledge with the human values framing the base to deal with various problems in life with courage and humanity.
- The students will be ignited enough think and act over for the solution of various issues prevailed in the human life to make this world better than ever.
- The program empowers all graduates of different streams to appear for various competitive examinations like IAS, IPS, KAS, KES, PDO, SI, VA, IBPS and many more.
- B A graduates can choose the post graduate program of their choice. After completion of M A in economics they can appear for competitive examinations such as IES, IFS, CSO and many more.
- This program makes Economics learner to serve country as economic adviser, Budget analyst, adviser to planning commission, financial adviser, Indian Economic Service, Indian Foreign service, Statistical officer, data analyst and many more.
- After completing the graduation in History the students are able to appear competitive exams, such as IAS, KAS and other civil service exams, they can sever as an analyst, Museum curator and many more. One will be amazed to learn that studying history opens up amazing avenues of career.
- Graduation in Political Science empowers students to work as an observer in the Union/State election Commission and able to explain the parliamentary system, issues and problems relating to the realization of human rights.

  
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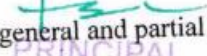
  
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## DEPARTMENT OF ECONOMICS

### Program Specific Outcomes:

Courses	Outcome
Semester-I Indian Economy:-	<ul style="list-style-type: none"> <li>• To understand the basic characteristics of economic development and growth of Indian Economy.</li> <li>• Acquire knowledge about Population, poverty, unemployment</li> <li>• To identify the role of agriculture and industry</li> <li>• To gain knowledge on trade, RBI, and financial sector reforms.</li> <li>• To highlight the knowledge about Karnataka economy</li> </ul>
Semester-II Principles of Micro Economics	<ul style="list-style-type: none"> <li>• To understand the basic concepts of micro economics.</li> <li>• To apply the concept of consumer behaviour with the daily life examples</li> <li>• To define and apply the concept of elasticity.</li> <li>• To define scarcity and show how it relates to the concepts of Choice and cost.</li> <li>• To identify the key elements of markets and models, to gain knowledge about product and factor pricing.</li> </ul>
Semester-III Principles of Macro Economics	<ul style="list-style-type: none"> <li>• To understand the basic concepts of macro economics.</li> <li>• To define how economic indicators are used to assess the state of the economy</li> <li>• To gain knowledge about the concepts of Keynesian theory.</li> <li>• To relate the causes and consequences of inflation with the current economic conditions</li> <li>• To acquire knowledge about fiscal and monetary policy, and RATEX.</li> </ul>
Semester-IV Mathematics and Statistics For Economics	<ul style="list-style-type: none"> <li>• To carry out mathematical and statistical proofs to understand economics.</li> <li>• To recognize where and how to use the mathematical and statistical knowledge in economics.</li> <li>• To know about statistical measures such as mean, median, mode for analysis and interpretation of data.</li> <li>• Analyze the different measures of dispersion that are useful in the field of research.</li> </ul>
Semester-V Managerial Economics-5	<ul style="list-style-type: none"> <li>• To understand the basic concepts of managerial economics.</li> <li>• To analyze the applications of linear programming.</li> <li>• To gain knowledge about demand forecasting techniques.</li> <li>• To calculate profit and capital management.</li> <li>• To develop the ideas of pricing of commodities and BEP.</li> </ul>
Semester-V Economics of Development-6	<ul style="list-style-type: none"> <li>• To understand the difference between economic growth and development.</li> <li>• To gain knowledge about the factors involved in the process of development.</li> <li>• To Develop the familiarity about the general and partial theories of development.</li> </ul>

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<p>Semester-VI Money, Banking and Public Finance-8</p>	<ul style="list-style-type: none"> <li>• To discuss the design of the tax structure using the concept of efficiency and equity.</li> <li>• To gain knowledge about the concept of money and banking.</li> <li>• To analyze the functions of modern government.</li> <li>• To recognize the revenue, expenditure and debt concepts in budget.</li> </ul>
<p>Semester-VI International Economics-9</p>	<ul style="list-style-type: none"> <li>• To recognize the causes of trade.</li> <li>• Students can try to understand terms of trade and commercial polices and the role of MNC's.</li> <li>• Analyze BOP and Foreign exchange issues.</li> <li>• To inculcate knowledge about IMF, IBRD, NIEO, SAARC, and BRICS.</li> </ul>
<p>Semester-I Basic Economics  DSC</p>	<ol style="list-style-type: none"> <li>1. Identify the facets of an economic problem.</li> <li>2. Learn basic economic concepts and terms.</li> <li>3. Explain the operation of a market system;</li> <li>4. Analyse the production and cost relationships of a business firm;</li> <li>5. Evaluate the pricing decisions under different market structures; and</li> <li>6. Use basic cost-benefit calculations as a means of decision making</li> </ol>
<p>Semester-I Contemporary Indian Economy: DSC</p>	<ul style="list-style-type: none"> <li>• Understand the current problems of Indian Economy</li> <li>• Identify the factors contributing to the recent growth of the Indian Economy</li> <li>• Evaluate impact of LPG policies on economic growth in India</li> <li>• Analyze the sector specific policies adopted for achieving the as rational goals</li> <li>• Review various economic policies adopted</li> </ul>
<p>Semester-I Kautilya's Arthshastra  OEC</p>	<ol style="list-style-type: none"> <li>1. This course will enlighten the students about the ancient fundamentals about political and economic constituents, which will frame out a basic land o understanding themodern trends.</li> <li>2. This will help them to understand the upcoming needs in the area of policy making for states at national and international level.</li> <li>3. This treatise deals with the science of Governance, so it projects out all the dimensions needed. understood by students about the present socio-economic and political rules and regulations of the state.</li> </ol>

  
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**DEPARTMENT OF HISTORY**

**PROGRAMME: BA HISTORY**

**Programme Outcomes**

- **Sound Knowledge of different Historical Periods:** Under the CBCS papers in each semester are devoted to the study of particular Historical phase in the historical in the events along with the study of a few major works by some master Historians of that period. These not only help the students to understand a historical period better, but also reduce the load of study in the concerned area.
- **Knowledge of the Development of Historical perspective:** While pursuing Honors course of studies in History it is mandatory that a student develops proper knowledge of the historical events. In this sphere also the present syllabus appears to be illuminating, as it's provides the students with standard and up to date knowledge of historical events, impact, war and history, result. The students may acquire knowledge of the historical events of the Ancient, Medieval, Modern and European history in new aspects.
- **Development of the Historical Perspectives:** The current syllabus is well chosen to represent different events from different angles. They are not only meant to make the students familiar with the dominant events of different ages, but also to open out new perspectives, the student may acquire a knowledge of the changing nature of politics or kingdoms of the changing times

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**DEPARTMENT OF HISTORY**

**PROGRAMME: B.A HISTORY**

**Programme Specific Outcomes**

- Understand background of our religion, customs institutions, administration and so on.
- Understand the present existing social, political, religious and economic conditions of the people.
- Analyze relationship between the past and the present is lively presented in the history.
- Develop practical skills helpful in the study and understanding of historical events.  
They:
  - (a) Draw historical maps, charts, diagrams etc.
  - (b) Prepare historical models, tools etc.
- Develop interests in the study of history and activities relating to history.  
They:
  - (a) Collect ancient arts, old coins and other historical materials;
  - (b) Participate in historical drama and historical occasions;
  - (c) Visit places of historical interests, archaeological sites, museums and archives;
  - (d) Read historical documents, maps, charts etc.
  - (e) Play active roles in activities of the historical organizations and associations; and
  - (f) Write articles on historical topics.
- The study of history helps to impart moral education.
- History installs the feeling of patriotism in the hearts of the pupils.

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**DEPARTMENT OF HISTORY**

**COURSE OUTCOMES**

Students are expected to acquire core knowledge in history, including the major fields of chronology ,narrative ,major events, personalities and turning points of the history of the India.

This course will provide a Students should learn how to provide multi- causal explanations of major historical developments .

The student should effectively communicate their knowledge of history from basic concepts to specific detailed presentations through oral and written modalities.

**SEMESTER I :- History of India Upto 1206 AD**

**After successful completion of the course, the student is expected to:**

- Write down the details of sources of ancient India
- Understand in depth birth of new religions
- Write down in details with application, if applicable the Mauryan empire
- Identify the characteristics of the Guptas

**SEMESTER II :- History of India (1206 AD to 1761 AD)**

**After successful completion of the course, the student is expected to:**

- Understand in depth Babur's invasion
- Understand in depth of Mughal rule under Akbar
- Learn in details with examples Art and Architecture of Mughal
- Understand in depth sultanate political structure.

**SEMESTER III :- History of Modern India (1757-1858 AD)**

**After successful completion of the course, the student is expected to:**

- Learn in depth of conquest of Bengal
- Identify the characteristics of the new economic policy
- Understand in depth trade routes

#### **SEMESTER IV:- Indian National Movement 1885-1947 AD**

**After successful completion of the course, the student is expected to:**

- Understand in depth trade routes
- Write down the characteristics of British
- Learn in detail about conquest of Bengal

#### **SEMESTER V PAPER V :- History and Culture of South India- (upto 1336 AD)**

**After successful completion of the course, the student is expected to:**

- Learn in details with examples pallavas of kanchi.
- Understand the details of Rashtrakutas .
- Identify in depth Merchant guilds of South India.

Understand in details with examples Art and Architecture for Hoysala Dynasty.

#### **• PAPER VI :- State and Society of South India (1336 AD to 1800 AD)**

**After successful completion of the course, the student is expected to :**

- Learn in details with examples Bhakthi Movement .
- Identify the details of Sufi Cult.

Understand in details with examples Art and Architecture for Vijaynagar empire.

#### **PAPER VII :- Colonialism and Nationalism in Asia (1800-1950)**

**After successful completion of the course, the student is expected to:**


- Learn the Characteristics of the Boxer rebellion
- Understand in details with examples disintegration of ottoman empire
- Identify the Classification and characteristics of the Anglo Japanese alliance
- Identify the details of the oil crisis

#### **SEMESTER VI :- PAPER VIII :-History of Modern Karnataka (1800-1950)**

**After successful completion of the course, the student is expected to:**

- Pupils should know that the Restoration of mysore state .

Understand to analyses the Diwan's administration & Role for Krishnaraja wodeyar IV

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**DEPARTMENT OF HISTORY**

**COURSE OUTCOMES (NEP)**

- A . Students will develop skills to evaluate the sources , methods , motivations and interpretations behind historical narratives.
- B. Students will learn a variety of sound historical research practices.
- C. Students will learn how to craft & present convincing & well supported arguments
- D. Students will recognize & appreciate the diversity of human experiences & how these change over time.

**SEMESTER I:-( DSC) Introduction to Ancient World Civilizations**

**After successful completion of the course, the student is expected to:**

- Understand the birth of Ancient Civilizations across the world.
- Obtain an idea of the geographical influences which aided the establishment of these Civilizations.
- Trace the evolution of political history and socio-economic characteristics of the different Civilizations.
- Analyses the ideas of theocracy and statehood during this time.
- Gather information on the various contributions in the fields on religion, law, education, language, literature, science mathematics, art and architecture

**SEMESTER I :- (DSC) History of Ancient India (From Earliest Times to 1206 CE)**

**After successful completion of the course, the student is expected to:**

- Gain an extensive insight of the political developments in Ancient India.
- Become familiar with development of Human evolution and material culture in the Indian subcontinent.
- Analyses sources in different forms to study the history of Ancient India.

- Identify in details with application, if applicable Regional policy of Education.
- Identify the classification and characteristics of regional languages and literature

#### **PAPER IX:- Modern-western civilization (1789-1945)**

**After successful completion of the course, the student is expected to:**

- Learn the details of the French revolution
- Understand in depth Italian Unification
- Learn in depth the UNO
- Understand in depth Age of Metternich

#### **PAPER X India and Contemporary world**

**After successful completion of the course, the student is expected to:**

- Write down the classification and characteristics of genesis of cold war
- Identify in details with examples features of foreign policy
- Understand the characteristics of Second World War Arab
- Learn the details of Nelson Mandela

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- Capture a glimpse of the evolving socio- cultural and religious diversities and dissents of Ancient India.
- Understand the progress of early State formations and political structures in Ancient India.

### **SEMESTER I :- (OE) Cultural Heritage of India**

**After successful completion of the course, the student is expected to:**

- Provide an insight about an extensive survey of heritage of India
- Familiarize oneself with Indian history and culture
- Expertize to analyses further development of culture of India
- analyses the factor responsible for origin and decline of culture
- Provide the opportunity to understand the process of cultural development

### **SEMESTER III :- History of Modern India (1757-1858 AD)**

**After successful completion of the course, the student is expected to:**

- Learn in depth of conquest of Bengal
- Identify the characteristics of the new economic policy
- Understand in depth trade routes


### **SEMESTER V PAPER V :- History and Culture of South India- (upto 1336 AD)**

**After successful completion of the course, the student is expected to:**

- Learn in details with examples pallavas of kanchi.
- Understand the details of Rashtrakutas .
- Identify in depth Merchant guilds of South India.

Understand in details with examples Art and Architecture for Hoysala Dynasty.

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**DEPARTMENT OF POLITICAL SCIENCE**

**PROGRAMME: BA POLITICAL SCIENCE**

**Programme Outcomes**

Political Science education provides learners with knowledge and skills needed to prepare for a professional career as a teacher ,administrator , political scientists, lawyers ect. It also provides ground knowledge about the basics of political education (it given political training ). It trains about the political and government at local , state , national and global levels.

- write clearly and with purpose on issues of international and domestic politics and public policy;
- participate as a civically engaged member of society;
- analyze political and policy problems and formulate policy options;
- use electronic and traditional library resources to research key local, state, national and international policy issues and present results;
- demonstrate competency with basic tools underlying modern social science research including competency in statistics and qualitative analysis
- demonstrate critical thinking, including the ability to form an argument, detect fallacies, and marshal evidence, about key issues of public policy and politics;
- discuss the major theories and concepts of political science and its subfields; and
- deliver thoughtful and well articulated presentations of research findings.

  
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**DEPARTMENT OF POLITICAL SCIENCE**

**PROGRAMME: B.A POLITICAL SCIENCE**

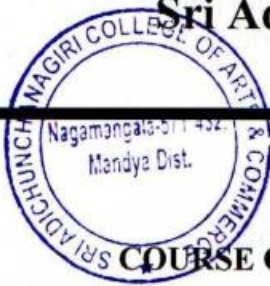
**Programme Specific Outcomes**

As we all know today, Political Science is a social science discipline that not only studies government & state but, at the same time, applies empirical theory & scientific methods to the analysis of political matters. As the world today revolves round political as well as economic considerations, a formal degree of Political Science has the utmost practical applicability. Its subject matter is concerned with the everyday life of an individual living in a society and state. Political Science is the study of political behavior, governance and power and how these are shaped by institutional settings and by the ideas, interests and resources of political actors. Therefore, a degree in political science not only enables students to enhance their grasp of the basic structures and processes of governmental systems, public policies and political forces that directly impact their lives, but also help them analyses political problems, arguments, information and theories and to apply methods appropriate for accumulating and interpreting data applicable to this discipline. Above all, it aids students in becoming informed citizens by amplifying knowledge on their entitlement to the rights and duties within a state.

An Honors graduate of Political Science of the college should possess the capability to:

- Demonstrate an understanding of fundamental political processes, institutions, actors, behavior, and ideas; and familiarity with major theories, methods, and concepts of Political Science.
- Demonstrate a proficiency in thinking systematically about political interactions in national, global and international contexts.
- Demonstrate proficiency in thinking systematically about the ethical dimensions of Politics.
- Write effectively, engage in intellectually grounded oral debate, and form and express coherent arguments.
- Synthesize, analyze, and critically evaluate major arguments in the discipline.

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**DEPARTMENT OF POLITICAL SCIENCE**

**COURSE OUTCOMES (NEP)**

- A. To understand the concepts of Political Science and to a knowledge about the significance of Political Science**
- B. Political Science organizes guest talk by scholars in the field of political science and encourages the students to think critically and given information about politics and various aspects of public life.**
- C. Political science department enables the students to participate in various programs conducted by Humanities department as well as forums of college and also avail the students to participate in various activities of the college and outside.**

**SEMESTER I:-( DSC) Basic Concepts in Political Science**

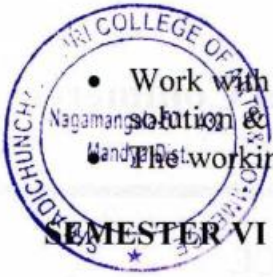
**After successful completion of the course, the student is expected to:**

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

**SEMESTER I :- (DSC) Political Theory**

**After successful completion of the course, the student is expected to:**

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



- Work with & for others in ways that translate community need into policy solution & public service action to promote a just & humane world.
- The working of local Self-governments in our political system.

#### **SEMESTER VI :- PAPER VIII :- Indian government and polities**

**After successful completion of the course, the student is expected to:**

- Development of constitution features of constitution, fundamental rights duties, union government and judiciary election commission and planning commission.

#### **PAPER IX:- Public policy**

**After successful completion of the course, the student is expected to:**

- An understanding the various constituencies that influence how policy is made and the theoretical underpinnings of real life policy choices.

#### **PAPER X :- International relations**

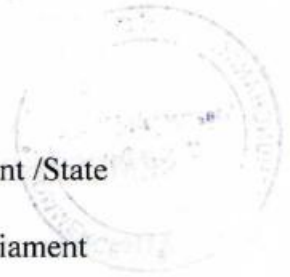
**After successful completion of the course, the student is expected to:**

- Skill identify comprehensive paradigm of multi-disciplinary nature of international relations interpret the external and internal dynamics of foreign policy decision making processes. Develop skills for team work group project and presentations.

#### **First and second semester compulsory paper**

##### **Constitution of India**

- To impart of knowledge about the framing of the constitution and major features constituent assembly at work preamble and salient feature citizenship fundamental rights directive principles of state policy, fundamental duties etc.
- About the constitutional structure and process in India
- Understanding of the constitutional provisions and process
- Awareness and knowledge about the institutions, process and the process



Know the Ministries, their role & responsibilities.

Know the roles & Responsibilities of Members of Parliament /State Assemblies.

Know the process of drafting & presenting a bill in the Parliament /Assemblies.

- Development of constitution features of constitution, fundamental rights duties, union government and judiciary election commission and planning commission.

### **SEMESTER III :- Major political ideologies**

**After successful completion of the course, the student is expected to:**

- It enables the students to learn the ideas of great Political Thinkers of ancient as well as modern period . To Understand the concept of Political ideology, nationalization, liberalism, socialism and power of democracy.
- Multiculturalism is a situation in which all the different cultural or racial group in a society have equal Right and opportunities. It helps the students to understand the importance of equality of different cultures.

### **SEMESTER IV:- Introduction to international relations**

**After successful completion of the course, the student is expected to:**

- With a focus on politics at the transnational or global level, it demonstrates a generalized understanding of the diplomatic relationship between nation- states, the functioning of international organizations, international law and economy, disarmament and peace efforts, foreign policies of states, the behavior and roles of nation-states in diverse political situations and also help gain an insight into subjects of Human Rights law and theory.
- Understand the major concepts of international relations, including: power, the international system, and balance of power, hegemony, conflict, cooperation, integration, globalization, interdependence, dependence, regimes, globalization, equality, justice, sustainability and international political economy.
- Student gain about knowledge, growth of international discipline, nation power, foreign policy, diplomacy, war, United Nations achievements non alignment.



## **SEMESTER V PAPER V :- Political thought**

**After successful completion of the course, the student is expected to:**

- Helping the students in accruing knowledge in the field of Indian Political thought in the initial stage of their study.
- Apprising the student about India's contribution towards the enrichment of the field of political thought.
- Gathering knowledge regarding India's orientation towards the politics & apprising the students about the growth of modern democratic political consciousness in India.
- Helping the students in preparing them for different competitive examinations.
- Understand piatos ideal state, Aristotle classification of state, kautilya, saptanga theory, mahatma Gandhi nonviolence and Ambedkar Maulana azad.

## **PAPER VI :- Political sociology**

**After successful completion of the course, the student is expected to :**

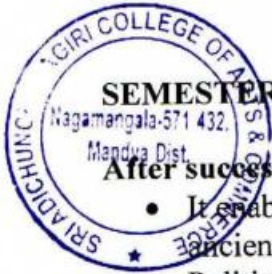
- Knowledge about importance of political sociology, elite theories, political culture, class community party system new rural urban group in polities.

## **PAPER VII :- Public Administration**

**After successful completion of the course, the student is expected to:**

- Understanding to scope nature of political science, organization, principles of administration, civil services budget and accounting and auditing.
- Demonstrate broad understanding of Public affairs , policy development , policy analysis , economic analysis , management skills and organization theory and their applications to public service.
- Conduct a purposeful inquiry exploring the problem/issue a client is experiencing.
- Apply critical thinking & appropriate technology for public policy analysis.





### **SEMESTER III :- Major political ideologies**

**After successful completion of the course, the student is expected to:**

- It enables the students to learn the ideas of great Political Thinkers of ancient as well as modern period . To Understand the concept of Political ideology, nationalization, liberalism, socialism and power of democracy.
- Multiculturalism is a situation in which all the different cultural or racial group in a society have equal Right and opportunities. It helps the students to understand the importance of equality of different cultures.

### **SEMESTER V PAPER V :- Public Administration and Public Policy**

**After successful completion of the course, the student is expected to:**


- Understanding to scope nature of political science, organization, principles of administration, civil services budget and accounting and auditing.
- Demonstrate broad understanding of Public affairs , policy development , policy analysis , economic analysis , management skills and organization theory and their applications to public service.
- Conduct a purposeful inquiry exploring the problem/issue a client is experiencing.
- Apply critical thinking & appropriate technology for public policy analysis.
- Work with & for others in ways that translate community need into policy solution & public service action to promote a just & humane world.
- The working of local Self-governments in our political system.

### **SEMESTER V :- (OE) Administration in India**

**After successful completion of the course, the student is expected to:**

- Acquire General Knowledge required to competitive Examinations
- To Have necessary knowledge and skills, Competency required for understanding Conceptual and Practical dimensions of Administrative process in India.

  
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**Department of Sociology**

**Program Outcome:**

Sociology learning provides initial knowledge about society, social life and social interactions. It prepares an individual to social life by inculcating values, morals, and manners. It gives knowledge about communities in which he interacts like rural and urban communities.

Sociology seeks to understand all aspects of human social behaviour, including the behaviour of individuals as well as the social dynamics of small groups, large organizations, communities, institutions, and entire societies. Sociologists are typically motivated both by the desire to better understand the principles of social life and by the conviction that understanding these principles may aid in the formulation of enlightened and effective social policy. The programme seeks to develop in students the sociological knowledge and skills that will enable them to think critically and imaginatively about society and social issues. The ability to demonstrate sociological understandings of phenomena, for example, how individual biographies are shaped by social structures, social institutions, cultural practices, and multiple axes of difference and inequality. The ability to apply sociological concepts and theories to the real world and ultimately their everyday lives. Ethical and Social Responsibility: Students have to learn about institutions, folkways, mores, culture, social control, social inequality, population composition, population policy, society and culture of India. All these help to communicate among the students of sociology a sense of ethical and social responsibility. Students will have the opportunity to join professional careers in Sociology and allied fields. Sociology provides an intellectual background for students considering careers in business, social services, public policy, and government service.



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**Department of Sociology**

**2016-21**

**COURSE OUTCOME**

<b>I semester BA paper-1 Introduction to Sociology</b>	
<b>Course outcomes</b>	<p>The course is intended to introduce the students to a sociological way of thinking. It provides an understanding of the discipline of Sociology and sociological perspective. It also provides foundation for other more detailed and specialized courses in sociology. Students will be able to</p> <ul style="list-style-type: none"><li>▪ Define Sociology and demonstrate nature, scope and subject-matter of Sociology.</li><li>▪ Demonstrate how Sociology differ from and similar to other social sciences and their areas of interdependence.</li><li>▪ Acquaint themselves with the basic concepts of Sociology like society, community, association, culture, social change, social stratification etc.</li><li>▪ Know the basic social institutions like family, marriage, kinship in a scientific way.</li><li>▪ Understand and demonstrate how self develops through various process of interaction. Demonstrate how societal and structural factors influence individual behaviour.</li><li>▪ Explain social change and the factors affecting social change. Realize the importance of cultural lag to understand social change.</li></ul>
<b>II semester BA paper-2 Foundation of sociology</b>	
<b>Course outcomes</b>	<p>The course is intended to introduce the students to a sociological way of thinking. It provides an understanding of the discipline of Sociology and sociological perspective. It also provides foundation for other more detailed and specialized courses in sociology. Students will be able to</p> <ul style="list-style-type: none"><li>• Evaluate the conceptual framework of Indian social system.</li><li>• Understand the dynamics of social institutions and application of</li></ul>



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	<p>different theoretical well as methodological perspective of studying Indian society .</p> <ul style="list-style-type: none"> <li>• Acquit with contemporary Indian society in terms of caste, class, religion and race.</li> <li>• To study the relevance of social institution.</li> <li>• To study the concepts of social change and its dynamics</li> </ul>
<b>III semester BA paper-3 Indian Society ; Part -1</b>	
<b>Course outcomes</b>	<p>This course is intended to introduce the students to basic social institutions to describe Indian society and culture of different periods from pre-history to modern era. It also provides knowledge about various social processes that play significant role in bringing about changes in Indian Society and Culture. Studying the course students will be able to</p> <ul style="list-style-type: none"> <li>▪ Explore the roots of Indian civilization.</li> <li>▪ Know economy, polity and society of ancient, medieval and modern India.</li> <li>▪ Understand and analyze the key concepts of Hinduism, Jainism, Buddhism, Islam and impact of these religions on society.</li> <li>▪ Understand and analyze the areas of interrelations between India and South Asia.</li> <li>▪ Demonstrate social, economic, political transformation of Indian society under colonial rule.</li> <li>▪ Realize the basic issues of Indian society like unity in diversity, problems of nationalism and principles of Indian Constitution.</li> </ul> <p>Define globalization and analyze its impact on social, economic, political, cultural spheres</p>
<b>IV semester BA paper-4 Indian Society ; Part -2</b>	
<b>Course outcomes</b>	<ul style="list-style-type: none"> <li>▪ Understand and analyze the key concepts of Hinduism, Jainism, Buddhism, Islam and impact of these religions on society.</li> <li>▪ Understand and analyze the areas of interrelations between India and South Asia.</li> <li>▪ Demonstrate social, economic, political transformation of Indian society under colonial rule</li> <li>▪ Understand social, economic and cultural features of minorities and other weaker section in India.</li> <li>▪ Learn about the Constitutional Provision for the protection of minorities and other weaker section in India.</li> <li>▪ Learn about the Reservation Policy in India.</li> </ul>

  
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<b>V semester BA paper-5 Rural Sociology in India</b>	
	<p>The course explores substantive issues in Rural Sociology. It gives attention to Indian themes. Studying the course students will be able to</p> <ul style="list-style-type: none"> <li>▪ Define Rural Sociology and demonstrate nature, subject-matter and importance of studying Rural Sociology.</li> <li>▪ Understand and analyze social, economic and political aspects of rural society.</li> <li>▪ Demonstrate how caste system operates and its importance in rural society.</li> <li>▪ Define and demonstrate democratic decentralization of power and importance of Panchayati Raj Institution in bringing about changes in rural society.</li> <li>▪ Understand the changes that are taking place in rural society with reference to agrarian reforms and rural development programmes.</li> </ul>
<b>V semester BA paper-6 Population Studies</b>	
	<p>This course provides an understanding of the interrelation between population and society. It analyzes the impact of fertility, mortality and migration on the composition, size and structure of population</p> <ul style="list-style-type: none"> <li>▪ Key concepts of Social Demography.</li> <li>▪ Demographic factors of social change.</li> <li>▪ Theories of population.</li> <li>▪ Factors affecting mortality and fertility.</li> <li>▪ Population policy in India.</li> </ul>
<b>V semester BA paper-7 Social Problems in India</b>	
	<p>The course also addresses various problems of Indian society and measures taken to eradicate these problems. Studying the course students will gather knowledge on</p> <ul style="list-style-type: none"> <li>▪ Various social problems in India like poverty, illiteracy, domestic violence, violence against women and measures taken to eradicate the problems.</li> <li>▪ Policy in India</li> </ul>
<b>VI semester BA paper-8 Pioneers of Sociology</b>	
	<p>The course aims to provide a general introduction to sociological theory and thought. The paper acknowledges the contributions of both western and Indian scholars in the development of sociology. It provides the students an opportunity to</p> <ul style="list-style-type: none"> <li>▪ Define sociological theory, understand its features and describe and illustrate the role of theory in building sociological knowledge.</li> </ul>

  
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	<ul style="list-style-type: none"> <li>▪ Introduce themselves to the classical theories of Sociology and contributions of different thinkers in this regard.</li> <li>▪ Know the contributions of founding fathers of Sociology in developing sociology as an academic discipline.</li> <li>▪ Understand the concepts and contributions of Indian social thinkers in the reform of Indian society as well as to enhance knowledge about society.</li> <li>▪ Know the contributions of Indian Sociologists in the development of sociological thought.</li> </ul>
<b>VI semester BA paper- 9 Women in India</b>	
	<ul style="list-style-type: none"> <li>• To delve with issues of gender as a social construct</li> <li>• to understand basic concept of gender, gender differences and inequalities</li> <li>• To understand how to negotiate power structure through gender lens,</li> <li>• To help students understand, analyze gender from a sociological perspective</li> <li>• To sensitize students on gender issues as well as contemporary legal enactments.</li> <li>• To help students understand the basic concept of gender</li> <li>• To create awareness on recent legal enactments.</li> </ul>
<b>VI semester BA paper- 10 Urban Sociology</b>	
	<p>Urban and Industrial Sociology are two specialized branches of Sociology. This course provides an exposure to key theoretical perspectives for understanding urban life in historical and contemporary contexts. Industrial Sociology intends to familiarize the students mainly with the process of industrialization and its impact on society. Students will get an opportunity to</p> <ul style="list-style-type: none"> <li>▪ Define urban sociology and demonstrate the nature and scope of urban sociology.</li> <li>▪ Develop an understanding about trends of urbanization in India and impact of urbanization on Indian society.</li> <li>▪ Develop awareness about urban problems and policies adopted to solve such problems.</li> <li>▪ Define industrial sociology and demonstrate the nature and scope of industrial sociology.</li> <li>▪ Develop an understanding of the process and trends of industrialization in India and impact of industrialization on Indian society</li> </ul>

  
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# Sri Adichunchanagiri College of Arts and Commerce Nagamangala, Mandya District.

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## Department of Geography

### Program Outcomes

On Completion of the BA (Geography) Students are able to:

- Serve as a Geographer
- Work as a teacher in schools and high schools
- Serve as conservator in the forest, Soil and Agriculture Departments.
- Work in disaster and water resources management.
- Serve as cartographer in map making divisions of Government
- Work in NGOs.
- Digitizer in GIS based companies
- It helps for Competitive exam
- GIS analyst in Research centre and Multi National Company



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**Sri Adichunchanagiri College of Arts and Commerce**  
Nagamangala, Mandya District-571432

**DEPARTMENT OF GEOGRAPHY**

**COURSE OUTCOMES:**

COURSES	OUTCOME
Semester I Physical geography	<ul style="list-style-type: none"> <li>To understand the importance of longitudes and latitudes.</li> <li>To know the internal structure of the earth.</li> <li>To gain knowledge about the agents of denudation.</li> <li>To analyze the composition and structure of atmosphere.</li> <li>Relief features of ocean floor and ocean currents.</li> </ul>
Semester I Practical Maps and scales, representation of relief features and meteorological instruments	<ul style="list-style-type: none"> <li>To understand the types of maps and scales.</li> <li>To gain knowledge about operating system of weather instruments.</li> <li>To know about the relief features.</li> </ul>
Semester II Human Geography	<ul style="list-style-type: none"> <li>To analyze the relationship between man and environment.</li> <li>To know about the races and modes of life of mankind with religion.</li> </ul>
Semester II Practical Map projections	<ul style="list-style-type: none"> <li>To learn how to construct cylindrical, conical, Zenithal and conventional projection.</li> </ul>
Semester III Regional geography of the world	<ul style="list-style-type: none"> <li>To know about the relief features, mineral resources and power resources of the world.</li> <li>To gain knowledge about the human life style and human activities as well as modes of transportation.</li> </ul>
Semester III Practical Cartograms and distributions of maps	<ul style="list-style-type: none"> <li>To learn constructing thematic maps and graphs.</li> </ul>
Semester IV Regional geography of India	<ul style="list-style-type: none"> <li>To understand the location, physiographic, drainage, climate and vegetation of India.</li> <li>To gain knowledge about the features, problems and prospects of Agriculture.</li> <li>To analyze the human resources, power and mineral resources.</li> </ul>
Semester IV Practical Basic statistics	<ul style="list-style-type: none"> <li>To apply the statistical equations to forecast geographical conditions of the world.</li> </ul>
Semester V -5 Geography of India Part-I	<ul style="list-style-type: none"> <li>To understand the location, physiographic, drainage, climate and vegetation of India.</li> <li>To gain knowledge about the features, problems and prospects of Agriculture and multi-purpose river valley projects in the development of agriculture.</li> <li>To analyze the importance of soil in agriculture.</li> </ul>
Semester V-5 Practical Cartograms	<ul style="list-style-type: none"> <li>To learn constructing thematic maps and graphs.</li> </ul>
Semester V -6 Regional geography of Karnataka	<ul style="list-style-type: none"> <li>To understand the location, physiographic, drainage, climate and vegetation of Karnataka.</li> <li>To analyze the role of different sectors of Karnataka economy.</li> </ul>
Semester V-6 Practical Interpretation of Indian topographical maps and Indian daily weather report.	<ul style="list-style-type: none"> <li>To learn how to draw topographical and weather maps of India.</li> </ul>

Semester VI – 7 Geography of India Part-2	<ul style="list-style-type: none"> <li>To gain knowledge about population, industries, Trade, natural resources, transportation and tourism of India.</li> </ul>
Semester VI-7 Practical Application of statistical methods in geography	<ul style="list-style-type: none"> <li>To apply the statistical equations to forecast geographical conditions of the world.</li> <li>To prepare socio economic survey of village.</li> </ul>
Semester VI – 8 Economic geography of the world	<ul style="list-style-type: none"> <li>To understand the field, nature, importance, scope and approaches of economic geography.</li> <li>To analyze the role of different sectors of Global economy.</li> </ul>
Semester VI-8 Elements of surveying and GIS	<ul style="list-style-type: none"> <li>To investigate components and function of GIS and its data models.</li> <li>To make out the different survey techniques.</li> </ul>

  
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**Sri Adichunchanagiri College of Arts, Commerce And Science  
Nagamangala -571432 , Mandya district.**

**DEPARTMENT OF COMMERCE**

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**Program outcomes**

- To prepare students to take up higher education to become business scientists, Researcher's consultants and teachers, with core competencies.

Graduates of this degree will be productive workplace communicators.

- To develop human resources to act as think tank for Business Development related Issues.
- To develop entrepreneurs.
- To develop business philosophers with a focus on social responsibility and Ecological sustainability.
- To develop ethical managers with interdisciplinary approach, recognise and Understand the ethical responsibilities of individuals and organisations in society.
- The Bachelor of Commerce (B. Com) equips graduates with the knowledge and Technical skills necessary to understand and participate in the modern business world.
- The course also prepares students for subsequent graduate studies and allows them to achieve the highest level of success in their professional Careers.
- To prepare students to exploit opportunities being newly created in the accounting & finance field.
  - To prepare students for professions in the field of Accountancy - Chartered Accountancy, Cost and Management Accountancy, Company Secretary, Professions in Income Tax and Goods and Service Tax, Professions in life and non life insurance and professions in Banks by passing the respective examinations of the respective professional bodies.
  - Also to develop the students for competitive examinations of UPSC, KPSC, BSRB, Staff Selection Commission, etc.
  - To create for students an additional avenue of self-employment and also to benefit Industry by providing them with suitably trained persons in the field of Accounting & Finance.

  
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Nagamangala-571 432, Mandya Dist

### **Programme specification**

- The students can get the knowledge, skills and attitudes during the end of the B.com degree course.
- By goodness of the preparation they can turn into a Manager, Accountant , Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government employments and so on.,
- Students will prove themselves in different professional exams like C.A. , C S, CMA, MPSC, UPSC. As well as other coerces.
- The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.
- Students will gain thorough systematic and subject skills within various disciplines of finance, auditing and taxation, accounting, management, communication, computer.
- Students can also get the practical skills to work as accountant, audit assistant, tax consultant, and computer operator. As well as other financial supporting services.
- Students will learn relevant Advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
- Students will be able to do their higher education and can make research in the field of finance and commerce



|| Jai Sri Gurudev ||

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**FINANCIAL ACCOUNTING -I**

**I SEM B.Com**

**Course Outcomes**

- Able to solve the trial balance by preparation of final accounts of a company.
- Students to *make* capable in preparation of final accounts of a company.
- For enabling the students of Computerized accounting system in generation of trail Balance and financial statements.
- The objective of this subject is to acquaint students with the accounting concepts, tools And techniques influencing Computerized accounting system.

**BUSINESS MANAGEMENT**

- Student know to manage the events such as concepts of management, evolution of management functions of management etc .
- It helps students to know general details about process of planning such as process of planning, decision making, strategy formulation, during planning process.
- Students how to plan the organisation, different types of organisation, delegation of authority, dynamics of group behaviour depending on skills.
- The student are aware how organization will try to maintain good relationship with customers
- The student are aware of different types emerging trends in management such as Kaizen, TQM, MIS, ISO stress management, business eco system.

**MANAGEMENT OF BANKING AND INSURANCE SERVICES**

**I SEM B.Com**

**Course outcomes:**

- To make students understand the concepts of banking and gain insite in to insurance as a risk management tool.



- Students are able to secure knowledge about the negotiable instruments like promissory note, bills of exchange, cheques etc.
- Students have learned the special and general relationship of banker with customer.
- Students are aware of the about banking operations from different aspects of the bankers.
- Students are able to understand the different types of customers and their eligibility to open and operate bank account.
- Students have got practical exposure to students about the new innovations in banking like ATM, EFT, MICR, RTGS, NEFT and DEMAT.





## **COST ACCOUNTING**

**II SEM B.Com**

### **Course outcome:**

- Student are able to practical knowledge about costing methods
- Students will get extreme knowledge about inventory methods
- Students are quite confident about calculation of different methods of time rate system
- They are able to know the principles of an integral accounting system and journal entries.
- They are confident in solving practical problems on allocation & apportionment.

## **FINANCIAL ACCOUNTING-II**

**II SEM B.Com**

### **Course outcome**

- After completion of course students are able to have knowledge about accounting for consignment.
- Able to understand about hire purchase and installment system.
- Able to prepare accounts in the books of non- profit organization and income and expenditure account.
- Capable of preparing royalties account.

## **MARKETING MANAGEMENT**

**II SEM B.Com**

### **Course outcome:**

- Students can identified the producer /Distributors of the organization in which stage of the product life cycle and position.
- Students are able to know strategies for development of a product.
- Students are aware of consumer behavior for the product of customers choice.
- Students able to gain basic knowledge of develop in advertisement copy for a product.
- Students are able to analyse the market by market research techniques.

## **CORPORATE ACCOUNTING –I**

**III SEM B.Com**



**Course Outcome:**

- Students are able to determine the requirement of financial statements as per Companies Act 2013.
- Aware of concepts of financial statements.
- Students are able to know how the liquidation of the companies carried out.
- Able to get complete knowledge about accounting for redemption of preference shares and debentures.
- Students are able to get practical knowledge of profit and loss account and balance sheet.

**INCOME TAX - I**

**III SEM B.Com**

**Course Outcome:**

- Students learned about Indian tax structure, slab rate, calculation of tax liability, exemptions etc.....
- They are able to determine residential status and incidence of tax
- They learned about salary and its contents
- They are able to calculate taxable income from salary and retirement benefits such as leave encashment, gratuity, commutation of pension etc.
- They understood the basis of charge of income from house property and they are able to calculate taxable income form house property.
- They are able to calculate professional gain or loss and business income.



## DISASTER MANAGEMENT

III SEM B.Com

### Course outcome:

- Students are able to know strategies for prevention and disaster risk reduction.
- Students are aware of differential impacts, climate change adaptation.
- Students able to gain basic knowledge of different components of disaster risk management.
- Students can identified the causes for disaster, vulnerability, differential impacts.

## COMPANY LAW AND SECRETERIAL PRACTICE

III SEM B.Com

### Course outcome:

- Acquire knowledge on basic documents in a company formation and various methods of raising of capital.
- Able to know the provisions of Companies Act relating to meetings, resolutions and Company Management
- Students are aware of statutory duties, power and responsibilities of director, secretary and other officers.
- Learn about Scope of secretarial audit, secretarial standards.

## CORPORATE ACCOUNTING II

IV SEM B.Com

### Course Outcome:

- Students are able to determine the requirement of holding company accounts and are able to draft the consolidated balance sheet.
- Aware of concepts of insurance companies.
- Students are able to know how the inflation accounting can be drafted.
- Able to get complete knowledge about accounting for human resource management.
- Students are able to get practical knowledge of social responsibility accounting.

## INCOME TAX - II

IV SEM B.Com

### Course Outcomes:

- Students are able to answer about the basics of income tax.
- They are able to determine admissible and inadmissible expenses, business incomes, non business incomes, exempted incomes and they are able to calculate taxable income from company and partnership firm.
- They are able to determine admissible and inadmissible expenses and incomes.





- Students are able to classify different capital assets and capable of calculate taxable capital gain.
- Gained the knowledge about determination of taxable income from other sources
- They are able to charge the deduction u/s 80C-80U for gross total income.
- Gained the knowledge about determination of taxable income of individual assessee.

## QUANTITATIVE TECHNIQUES -I

### IV SEM B.COM

#### Course outcome:

- Student know the concept of indices and logarithms.
- Student will be confident about arithmetic and geometric progressions.
- They gain practical knowledge how to calculate probability & theoretical distribution.
- They are able to get knowledge on about matrices and determinants and its uses
- They are confident in solving practical problems on ratios.

## BUSINESS LAWS

### V SEM B.Com

#### Course outcome:

- Acquire knowledge on contractual capacity, minors agreement, fraud, undue etc.
- Able to know the different kinds of contracts.
- Students are aware of Intellectual property Act, Department of Commerce .
- Learn about information technology Act 2000.
- Understand the basic concepts of law.

## FINANCIAL MANAGEMENT

### V SEM B.COM

#### Course outcome:

- Define the fundamental concepts of FM .
- Student acquired practical skills on capital budgeting
- Describe factors influencing dividend policies
- Analyse the capital structure and appraise its influence on risk and growth.
- Differentiate and apply various method and techniques to analyse investment decision.
- Explain the concept of leverage and benefits and cost associated with debt financing.
- Define and identify the concepts of cost of capital.



## **COST AND MANAGEMENT ACCOUNTING-IV**

V SEM B.Com.

### **Course outcome:**

- Student will be able conversant with need, scope and important concept of management accounting.
- Student will learn to analyse cash budget, flexible budget.
- Student will be able to gain knowledge about cost , profit and volume and understand the need of cost concepts in organization.
- Student demonstrate in preparation of management of reports

## **QUANTITATIVE TECHNIQUES -I**

V SEM B.COM

### **Course outcome:**

- Student know the concept of indices and logarithms.
- Student will be confident about arithmetic progression and geometric progression.
- They gain practical knowledge how to calculate ratios.
- They are able to get knowledge on matrices and determinants and its uses
- They are confident in solving practical problems on simple interest and compound interest.

## **CORPORATE ACCOUNTING-III**

V SEM B.Com

### **Course Outcomes:**

- Students gain practical knowledge about provisions of banking companies.
- Students are enable to know the extreme knowledge about amalgamation of company's .
- Students are quiet confident and get awareness of valuation of goodwill and shares.
- Students are able to gain basic knowledge of passing journal entries in terms of nature of amalgamation of companies.
- Students can able to know brief theoretical study of corporate financial reporting.

## **BUSINESS TAXATION -III**

### **CORPORATE TAX PLANNING AND INTRODUCTION TO GST**

V SEM B.Com

### **Course Outcomes:**

- Students are aware of different forms of business organisations.
- Students are enlightened on the managerial decision making process.
- Students to understand the Concept of GST from Basic to Advance.
- Students are aware of GST rates and different Slab rates of GST with examples.
- Have knowledge how GST is levied on goods and services.
- Knowing how GST was implemented in India and its background.
- To make students to have a detail study and capable and solve recent indirect taxation reforms.



## MARKETING MANAGEMENT

VI SEM B.Com

### Course outcome:

- Students can identify the producer /Distributors of the organization in which stage of the product life cycle and position.
- Students are able to know strategies for development of a product.
- Students are aware of consumer behavior for the product of customers choice.
- Students able to gain basic knowledge of develop in advertisement copy for a product.
- Students are able to analyse the market by market research techniques.

## QUANTATIVE TECHNIQUES-II

VI SEM B.Com.

### Course outcome:

- Students will be able to work out problem on set theory to take business decisions.
- Able to fit a to find the values of factorial permutation.
- Workout the problems on theoretical distribution.
- Student are able to understand the significance of sampling and sampling distribution.
- Students are able to understand the probability theory at different levels of events.

## PRINCIPLES AND PRACTICE OF AUDITING

VI SEM B.Com

### Course Outcomes:

- Students are able to get practical knowledge about types of audit conducted In organization.
- Student learn about audit firm, and how audit procedures are done in the organization.
- Students are investigates reports public limited company to know the process of auditing with the help of auditor.
- Students are aware of the vouching and its importance.
- Students have knowledge about internal audit and external audit.
- To learn about power and position of auditors in organization.

## ENTREPRENEURSHIP DEVELOPMENT

### Course outcomes:

- Students are aware about the topics of Entrepreneurship.
- Students know what are small scale industries and different types of industries, policies governing small scale industries.

- Students know steps involved in financing of small businesses in India.
- Students know about setting up new business and various forms of business.
- Students know about assistance provided by SFCs, SIDBI, Commercial bank, IFCI and non financial assistance

## **BUSINESS TAXATION –IV**

**CUSTOMS DUTY AND GST**  
**VI SEM B.Com**

SRI ADICHUN

### **Course Outcomes:**

- To make students to understand the different customs duties and Calculations.
- Understanding how to assess and find, levy Tax for the goods and services.
- Knowing value of supply and assessment of Practical Problems.
- To know the difference between Direct and Indirect Taxation.

Department of Commerce

- For better understanding of Calculation, Assessing , and levying of input tax credit.
- Understand the students to register and file the returns under GST Act 2017.



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**DEPARTMENT OF POST GRADUATIONS IN COMMERCE**

**M.Com (Master of Commerce)**

**Program outcomes**

- To acquaint a student with conventional as well as contemporary areas in the discipline of Commerce.
- To enable a student well versed in national as well as international trends.
- To enable the Students for conducting business, accounting and auditing practice, role of regulatory bodies in corporate and financial sectors nature of various financial instruments.
- To provide in-depth understanding of all core areas specifically Advanced Accounting, International Accounting, Management , Security Market Operations and Business Environment, Research Methodology and Tax Planning.

**Program Specific Outcomes**

After the completion of the M.Com Course, a student is able

- For pursuing research in their chosen areas.
- For teaching in Schools and Colleges after qualifying requisite tests.
- For working as data analyst.
- Ton work as investment consultants after a brief internship in suitable Organizations absorbed in Banking and Insurance sector as executives.

**Sri Adichunchanagiri College of Arts and Commerce**  
**Nagamangala, Mandya District-571432**

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**DEPARTMENT OF POST GRADUATIONS IN COMMERCE**

**Course Outcomes**

**M.Com Semester-I**

Sl. No.	Title of the Course	Course Outcomes
1	Accounting Theory	<ul style="list-style-type: none"><li>• Knowledge about IFRS &amp; IND-AS</li><li>• Preparation &amp; Presentation of Financial Statements</li><li>• Analysis of financial reports</li><li>• Knowledge about various regulations and policies in India</li><li>• Knowledge about XBRL</li></ul>
2	Corporate Governance & Business Ethics	<ul style="list-style-type: none"><li>• Understand the Concept of Corporate Governance</li><li>• Understand Corporate Ethics Cultural influence</li><li>• Knowledge about CSR</li></ul>
3	Financial Management	<ul style="list-style-type: none"><li>• Skill to manage financial resources of a Company</li><li>• Knowledge about the various sources of finance available to business men these days</li><li>• Ability to select an investment proposal by analysing the compounded and discounted value of money invested</li></ul>
4	Marketing Management	<ul style="list-style-type: none"><li>• Familiarization with Marketing Concepts &amp; Philosophies</li><li>• Ability to understand the changing Marketing Environment</li><li>• Knowledge of different consumer &amp; business buying behaviour</li><li>• Familiarization with product related decisions</li></ul>
5	Business Policy & Environment	<ul style="list-style-type: none"><li>• Skill to identify and differentiate various Micro &amp; Macro factors affecting functioning of business</li><li>• Ability to analyse Indian Economy in light of changing government regulatory policies</li><li>• Understanding of the target and priorities of five years plans</li><li>• Ability to file complaints against unfair trade practice under Consumer Protection Act</li></ul>
6	Statistics for Business Decisions	<ul style="list-style-type: none"><li>• Development of logical reasoning ability in students</li><li>• Knowledge about the applicability of various parametric and non-parametric tests</li><li>• Ability to use SPSS to solve statistical problem</li></ul>



		<ul style="list-style-type: none"> <li>Ability to make decisions under uncertain business situations</li> </ul>
7	Advanced Auditing	<ul style="list-style-type: none"> <li>Understand ideology of auditing and its practice</li> <li>Importance of auditing knowledge about Auditing Standards</li> </ul>
<b>M.Com Semester-II</b>		
1	Capital Market Instrument	<ul style="list-style-type: none"> <li>Familiarization with Capital Market &amp; Depository System prevalent in Capital Market</li> <li>Clarity about the current status of Stock Exchange in India</li> <li>Understanding about the Trading, Clearing and Settlement procedure followed at Stock exchange</li> <li>Clarity about the calculation methodology of Indices</li> </ul>
2	Human Resource Management	<ul style="list-style-type: none"> <li>Capability to understand employee recruitment &amp; selection process</li> <li>Understanding of different types of remuneration plans &amp; their significances</li> <li>Capability to evaluate different training programs &amp; understanding of their limitations</li> <li>Knowledge regarding the developing role of human resource management in the globalized world</li> </ul>
3	Organizational Behaviour	<ul style="list-style-type: none"> <li>Knowledge about Organization &amp; Structure</li> <li>Individual behavioural theories</li> <li>Motivational theories</li> <li>Group &amp; team work</li> </ul>
4	Computer Application in Commerce	<ul style="list-style-type: none"> <li>Knowledge about ERP/Tally</li> <li>Basics about SPSS</li> <li>Knowledge about mathematical software to solve problems</li> </ul>
5	Strategic Management	<ul style="list-style-type: none"> <li>Familiarization with Strategic Management process</li> <li>Understanding about the techniques to scan an environment &amp; the role of environment scanning in hurdle less strategic management of an Organization</li> <li>Understanding about the equal importance of strategy formulation &amp; strategy implementation</li> <li>Clarity about the strategies followed by different companies in the corporate world</li> </ul>
6	Stock Market & Investment Decisions	<ul style="list-style-type: none"> <li>Familiarization with Capital Market &amp; Depository System prevalent in Capital Market</li> <li>Clarity about the current status of Stock Exchange in India</li> <li>Understanding about the Trading, Clearing and Settlement procedure followed at Stock exchange</li> <li>Clarity about the calculation methodology of Indices</li> </ul>



		<ul style="list-style-type: none"> <li>• Skill to write a paper</li> </ul>
2	International Business	<ul style="list-style-type: none"> <li>• Knowledge about policy &amp; practice skills related to International Business</li> <li>• Student will be able to understand the intricacies of running business across the political territories</li> <li>• Insight in to the policy environment in India regarding the International Business</li> </ul>
3	Management of Social Enterprises	<ul style="list-style-type: none"> <li>• Students familiar with the emerging form businesses often referred to as Social Enterprise or Social Business</li> <li>• Invoking the academic interest on social enterprises &amp; of motivating youth to embrace social entrepreneurship as a professional choice</li> </ul>
4	Portfolio Management	<ul style="list-style-type: none"> <li>• Familiarization with the designing &amp; construction of Portfolio</li> <li>• Knowledge about techniques of doing investment analysis</li> <li>• Ability to identify &amp; study the trends of stock markets</li> <li>• Ability to take investment decisions taking into consideration various determinants influencing investment decisions</li> </ul>
5	Entrepreneurship Development	<ul style="list-style-type: none"> <li>• Overview of entrepreneurship with a view to enhance entrepreneurial talent</li> <li>• Entrepreneurial skills &amp; competencies to provide the student with necessary inputs for creation of new ventures</li> <li>• Explore new vistas of entrepreneurship in 21<sup>st</sup> century environment to generate innovative business ideas</li> </ul>
6	Business Taxation: Indirect Tax Law & Practice	<ul style="list-style-type: none"> <li>• Importance of indirect taxes(GST) in the Indian &amp; global economy &amp; its contribution for the economic developments</li> <li>• Principles of taxations, objectives of taxes &amp; its impact, shifting &amp; incidence process of indirect taxes in market oriented economy</li> <li>• Tax consultant in preparing the tax planning, tax management, payment of tax &amp; filling of tax returns</li> </ul>





## M.Com Semester-IV

1	International Accounting	<ul style="list-style-type: none"> <li>• Knowledge of concepts, evolution &amp; relevance of International Accounting</li> <li>• Understanding of varying patterns &amp; practices of financial reporting across the nations</li> <li>• Development of an insight to read between the lines while studying a financial statement of an MNC</li> <li>• Understanding the procedures related to foreign currency translation, International Taxations &amp; Consolidation of Financial Statements in the context of MNC's</li> </ul>
2	Operations Research	<ul style="list-style-type: none"> <li>• Knowledge about Various methods to solve problems</li> <li>• Application of various methods in decision taking</li> </ul>
3	Foreign Exchange Management	<ul style="list-style-type: none"> <li>• Understand the nature &amp; functioning of foreign exchange markets, determination of exchange rates &amp; their forecasting in Indian context</li> <li>• The course enables the students to learn the basic skills required to be part a foreign exchange division of any financial institution or state department</li> </ul>
4	International Financial Management	<ul style="list-style-type: none"> <li>• Knowledge about IMF, World bank, European Monetary System &amp; their role in International Financial Management</li> <li>• Clarity about the role of central bank in International Financial Management</li> <li>• Ability to use various scanning techniques to scan the environment of the host country</li> <li>• Understanding of the manner of management of exposures involved in International Transactions</li> </ul>
5	Project Work	<ul style="list-style-type: none"> <li>• Students are able to know about how to take up a project &amp; do the research work</li> </ul>
6	Business Taxation: Corporate Tax & Planning	<ul style="list-style-type: none"> <li>• Ability to identify the difference between Tax Evasion, Tax Planning &amp; Tax Avoidance</li> <li>• Understanding of various deductions, rebates &amp; reliefs to reduce the taxable income &amp; tax liability</li> </ul>

|| Jai Sri Gurudev ||

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**BBA Programme Outcomes**

1. To provide adequate basic understanding about management education among the students.
2. To prepare student to exploit opportunities being newly created in the management profession.
3. To train the students in communication skills effectively.
4. To develop appropriate skills in the students so as to make them competent and provide themselves self employment.
5. To include entrepreneurial skills.
6. To recognise and solve business problem in an ethical manner.

**Obejectives of the programme:-**

1. To provide the basic and essential knowledge regarding various activities undertaken and necessary to run socially the responsible business organisation.
2. To teach certain basic skills and aptitudes to be helpful in taking up any particular activity in a business.
3. To inculcate global view of the industrial and organisation establishment and their functions which support the business system.
4. To make them responsible to specialise in the area of management like human resource, finance operations and marketing and system.

  
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5. To inform the micro level concept of business and management like insurance retail, marketing supply chain management etc...
6. To develop the culture of business and entrepreneurial aptitude among the people at large.

**Course outcome:-**

1. Train the student by product based and applied learning.
2. Teaches leadership qualities
3. Entrepreneurship development.
4. Corporate live project.
5. Project internship.
6. Business plan competition/ teamwork.
7. Exposure to CSR project – internship.

**Career prospect:-**

After completing the BBA course, students have choice to pursue higher education. Some of the acclaimed courses are;

1. Chartered accountant.
2. Master of commerce.
3. Master of business administration.
4. Certified management accountant.
5. Association of chartered certified accountant.
6. Business accounting and taxation.
7. Institute of cost and work accountant.
8. Company secretaryship.

9. Master in international business.

10. Master in finance and accountant.

Pursue a lucrative career in the commerce and management sector. There is wide scope for these graduates in the form of financial analyst, human resource managers, marketing executive, tax analyst, business analyst etc.. There is high demand for these graduates in;

1. Manufacturing companies.
2. Export trading houses.
3. Consumer durable industries.
4. Financial concerns.
5. Bank and financial institutions.
6. Insurance industry.
7. NGOs
8. Multinational corporation.
9. Service industry.
10. Marketing industry.

### **Subject objectives:-**

#### **Cost accounting;**

- Ascertainment of cost, determination of selling price, cost
- control and cost reduction, ascertaining the profit of each
- activity, assisting management in decision making.

### Management information system;

- MIS is design to meet the information.
- Main goals of an MIS are to help executives of an organisation.
- The purpose of managing the organisation in a better way for competitive advantage.

### Financial Accounting;

- To accurately prepare an organisations final accounts for a specific period.
- To provide a reliable set of data with which to prepare financial report for analysis purposes (for lenders, investors, owners).

### Principles of management;

- The main objective of management is to secure maximum output with minimum effort.
- They should be consistent with the organisational policies and procedures.
- Objectives promote motivation empowerment of employers.

### Principles of marketing;

- To introduce the marketing concept and how we identify, understand and satisfy the needs of customer and markets.
- To analyse company and competitors and to introduce marketing strategy to increase awareness of strategic and tactical decisions behind today's top performing brands.

  
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**DEPARTMENT OF PHYSICS**

**PROGRAMME: B.Sc. PHYSICS**

**Programme Outcomes**

- Acquire adequate knowledge of the subject
- Craft a foundation for higher learning
- Be initiated into the basics of research
- Accept sound moral and ethical values
- Become conscious of environmental and societal responsibilities
- Attain skills for communication and career
- Learn to tolerate diverse ideas and different points of view
- Become empowered to face the challenges of the changing universe
- Self-motivating and inspiring team members to engage with the team objectives by using management skills.
- Ability to think, acquire knowledge and skills through logical reasoning and to inculcate the habit of self-learning.
- Ability to identify unethical behavior and adopting objective, unbiased and truthful actions in all aspects of their programme.
- This programme will also help students to enhance their employability for jobs in different sectors.

  
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**DEPARTMENT OF PHYSICS**

**COURSE OUTCOMES (NEP)**

Students are expected to acquire core knowledge in physics, including the major fields of classical mechanics, special theory of relativity and modern physics.


This course will provide a theoretical basis for doing experiments in related areas. Students should learn how to design and conduct an experiment demonstrating their understanding of the physics concepts.

The student should effectively communicate their knowledge of physics from basic concepts to specific detailed presentations through oral and written modalities.

**SEMESTER I:-( DSC) PHY 101MECHANICS AND PROPERTIES OF MATTER**

**After successful completion of the course, the student is expected to:**

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

  
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**DEPARTMENT OF PHYSICS**

**COURSE OUTCOMES (Non CBCS)**

Students are expected to acquire core knowledge in physics, including the major fields of classical mechanics, quantum mechanics, electromagnetic theory, electronics, optics, special theory of relativity and modern physics.

This course will provide a theoretical basis for doing experiments in related areas. Students should learn how to design and conduct an experiment demonstrating their understanding of the physics concepts.

The student should effectively communicate their knowledge of physics from basic concepts to specific detailed presentations through oral and written modalities.

**SEMESTER I :-MECHANICS, PROPERTIES OF MATTER**

**After successful completion of the course, the student is expected to:**

1. The students would have attained a common understanding in basic mechanics, properties of matter, Heat and thermodynamics.
2. The students developed their experimental and data analysis skills through a wide range of experiments in the practical laboratories.

**SEMESTER II :- HEAT AND THERMODYNAMICS**

**After successful completion of the course, the student is expected to:**

1. The students would have been introduced to powerful tools for tracking a wide range of topics in heat and thermodynamics become familiar with additional relevant Maxwell's formulation.
2. Further developed their experimental skills through a series of experiment which illustrates major themes of the lecture courses

**SEMESTER III :-WAVES, ACOUSTICS AND OPTICS**

**After successful completion of the course, the student is expected to:**

1. Understand the basic concepts of wave optics and learn very important and fascinating areas of interference, diffraction and polarization with many experiments associated with it.



2. Have in depth knowledge of the general equation of wave motion and transverse waves in stretched strings and longitudinal waves in gases and rods
3. Familiarize with the types of transducers and their characteristics

#### **SEMESTER IV:-ELECTRICITY AND ELECTROMAGNETISM**

**After successful completion of the course, the student is expected to:**

1. Be able to solve a variety of problems related to Maxwell's equations and explain term displacement current
2. Know in depth the response of CR, LC, CR and LCR circuits to AC, which is essential in designing as well as understanding the working of electronic circuits.
3. Familiarize with electrical circuits, electrical connections, and storage devices their working etc. which will be quite useful in their daily life.
4. Learn construction & working CRO and its use in measurement of voltage, frequency and phase.

#### **SEMESTER V PAPER V :-SPECTROSCOPY AND ELECTRONICS**

**After successful completion of the course, the student is expected to:**

1. Become familiar with molecular spectroscopy and have gained basic ideas regarding vector model of atom, spin orbit interaction, Zeeman effect, Raman effect
2. Acquire knowledge about how a semiconductor diode rectifies an input ac signal and
3. Learn how to construct a transistor amplifier and how its gain varies with frequency
4. Familiarize with logic circuits and their applications which enables them to design logic circuits of their own.

#### **PAPER VI CONDENSED MATTER PHYSICS**

**After successful completion of the course, the student is expected to :**

1. Familiarize about statistical distribution and have basic ideas about Maxwell Boltzmann, Bose-Einstein and Fermi Dirac statistics and their applications
2. Learn thermal, electrical properties of solid and Compton effect
3. Gain knowledge of superconductivity, its underlying principles and its applications in modern world
4. Have gained basic knowledge of laser and working of different type of lasers

#### **PAPER VII SOLID STATE AND SEMICONDUCTOR PHYSICS**

**After successful completion of the course, the student is expected to:**

1. Acquire basic knowledge of semiconductor, classification of solid on the basis band gap theory, concept of hole in a semiconductor, charge carrier density, mobility and continuity equation
2. Learn how LED and solar cell work

3. Know the physics behind dia, para and ferromagnetism
  4. Familiarize with different types of liquid crystal, its uses and defects in solids
  5. Acquire knowledge of classical and quantum theories of Polaris ability
- Semester

### **SEMESTER VI PAPER VIII SPECIAL THEORY OF RELATIVITY AND QUANTUM MECHANICS**

**After successful completion of the course, the student is expected to:**

1. Have gained a clear knowledge about wave properties of particles, De Broglie waves and its implications on the uncertainty principle.
2. Find solution to Schrödinger's equation for systems such as particle in a box, linear simple harmonic oscillator
3. Describe departure from classical physics, basic principles of special theory of relativity and derive Lorentz transformation equations and their application to understand time, length and mass measurement in inertial frames

### **PAPER IX NUCLEAR PHYSICS**


**After successful completion of the course, the student is expected to:**

1. Gain a clear picture of nuclear composition and various nuclear models
2. Have in depth knowledge about radio activity, nuclear fission and nuclear fusion, the relevance of nuclear transformation and energy production in stars
3. Familiarize with fundamental particles of nature
4. Understand the working of nuclear detectors and particle accelerators , realize the importance of Cosmic rays and its effects on earth
5. Explain the origin of radioactivity, liquid drop and shell model of nucleus

### **PAPER X ANALOG AND DIGITAL ELECTRONICS**

**After successful completion of the course, the student is expected to:**

1. Know about flip flops, counters, OPAMP, FET and UJT
2. Analyse various combinational and sequential circuits
3. Analyses the functioning of ADC and DAC
4. explain amplitude and frequency modulation, super heterodyne receiver

  
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**DEPARTMENT OF PHYSICS**

**COURSE OUTCOMES (CBCS)**

Students are expected to acquire core knowledge in physics, including the major fields of classical mechanics, quantum mechanics, electromagnetic theory, electronics, optics, special theory of relativity and modern physics.

This course will provide a theoretical basis for doing experiments in related areas. Students should learn how to design and conduct an experiment demonstrating their understanding of the physics concepts.

The student should effectively communicate their knowledge of physics from basic concepts to specific detailed presentations through oral and written modalities.

**SEMESTER I:-( DSC) PHY 101MECHANICS, PROPERTIES OF MATTER AND ELECTROSTATICS**

**After successful completion of the course, the student is expected to:**

1. Know the fundamentals of different types of frames of references and Galilean transformation
2. understand the basics of properties of matter, how Young's modulus and rigidity modulus are defined how they are evaluated for different shapes of practical relevance
3. Gain knowledge about the properties of fluids especially of viscosity and surface tension which help the students in their daily life.
4. Know conservation laws of energy and linear and angular momentum and apply them to solve problems
5. Learn the basics of potentials and fields, central forces and Kepler's laws
6. Have basic knowledge of moving coil and Helmholtz galvanometer, electric pressure on a charged surface and attracted disc electrometer



## **SEMESTER II:-( DSC )PHY 201 HEAT, THERMODYNAMICS AND SOUND**

**After successful completion of the course, the student is expected to:**

1. Become familiar with various thermodynamic process, reversible and irreversible process and knowledge of calculating change in entropy for various process
2. Realize the importance of thermodynamic functions and applications of Maxwell's relations.
3. Learn the fundamentals of harmonic oscillator model, including damped and forced oscillators and expression for amplitude and phase at resonance
4. Have in depth knowledge of the general equation of wave motion and transverse waves in stretched strings and longitudinal waves in gases and rod.

## **SEMESTER III :-PHY301 (DSC) ELECTRICITY AND ELECTROMAGNETISM**

**After successful completion of the course, the student is expected to:**

1. Be able to solve a variety of problems related to Maxwell's equations and explain term displacement current
2. Know in depth the response of CR, LC, CR and LCR circuits to AC and Dc, which is essential in designing as well as understanding the working of electronic circuits.
3. Familiarize with electrical circuits, electrical connections, and storage devices their working etc. which will be quite useful in their daily life.
4. Learn construction & working CRO and its use in measurement of voltage, frequency and phase.

## **SEMESTER IV :-PHY401 (DSC) OPTICS AND SPECTROSCOPY**

**After successful completion of the course, the student is expected to:**

1. Understand the basic concepts of wave optics and learn very important and fascinating areas of interference, diffraction, polarization and laser with many experiments associated with it.
2. Become familiar with molecular spectroscopy and have gained basic ideas regarding vector model of atom, spin orbit interaction, Zeeman effect, Raman effect

## **SEMESTER V :-PHY501 (DSE) NUCLEAR AND THEORETICAL PHYSICS**

**After successful completion of the course, the student is expected to:**

1. Gain a clear picture of nuclear composition and various nuclear models
2. Have in depth knowledge about radio activity, nuclear fission and nuclear fusion, the relevance of nuclear transformation and energy production in stars
3. Familiarize with fundamental particles of nature
4. Understand the working of nuclear detectors and particle accelerators; realize the importance of Cosmic rays and its effects on earth
5. Explain the origin of radioactivity, liquid drop and shell model of nucleus
6. Describe departure from classical physics, basic principles of special theory of relativity and derive Lorentz transformation equations and their application to understand time, length and mass measurement in inertial frames

## **PHY511 (SEC) LASERS AND FIBRE OPTICS**

**After successful completion of the course, the student is expected to:**

1. Familiarize about types of laser, fiber optics their applications
2. Understand the basic concepts of wave optics and Coherence properties of laser light, temporal coherence, mono chromaticity, spatial coherence, directionality, line width, brightness, and laser with many experiments associated with it.

## **PHY601 (DSE) SOLID STATE PHYSICS**


**After successful completion of the course, the student is expected to:**

1. Acquire basic knowledge of semiconductor, classification of solid on the basis band gap theory, concept of hole in a semiconductor, charge carrier density, mobility and continuity equation
2. Learn how LED and solar cell work
3. Familiarize with different types of liquid crystal, its uses and defects in solids
4. Acquire knowledge of classical and quantum theories of Polaris ability Semester
5. Know about flip flops, counters, OPAMP, FET and UJT
6. Analyse various combinational and sequential circuits

## **PHY611 (SEC) OPTOELECTRONICS**

**After successful completion of the course, the student is expected to:**

1. Learn how LED and solar cell work
2. Familiarize about t Types of photodiodes Junction photodiodes, pin diode, avalanche photodiodes, CCD photo detectors; Comparison of different detectors, Photomultiplier tubes. Phototransistors characteristics

  
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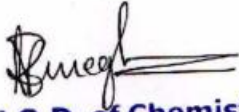
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**PROGRAM OUTCOMES:**

CBCS

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

1. **PO.1:** To create enthusiasm among students for chemistry and its application in various fields of life.
2. **PO.2:** To provide students with broad and balanced knowledge and understanding of key concepts in chemistry.
3. **PO.3:** To develop in students a range of practical skills so that they can understand and assess risks and work safely measures to be followed in the laboratory.
4. **PO.4:** To develop in students the ability to apply standard methodology to the solution of problems in chemistry.
5. **PO.5:** To provide students with knowledge and skill towards employment or higher education in Analytical chemistry or multi-disciplinary areas involving chemistry.
6. **PO.6:** To provide students with the ability to plan and carryout experiments independently and assess the significance of outcomes and to cater to the demands of chemical Industries of well-trained graduates.
7. **PO.7:** To develop in students the ability to adapt and apply methodology to the solution of unfamiliar types of problems.
8. **PO.8:** To instil critical awareness of advances at the forefront of chemical sciences, to prepare students effectively for professional employment or research degrees in chemical sciences and to develop an independent and responsible work ethics.

  
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## Department of Chemistry

### COURSE OUTCOME



#### **I Semester:**

- Explain periodic properties and classify elements according to properties, discuss the structure of atom.
- Describe and apply Schrodinger equation and quantum numbers.
- Understand the concepts of basic organic chemistry and study the alkanes, alkenes and alkynes.
- Explanation and classification of binary mixtures with suitable examples.
- Application of Nernst distribution law with respect to solvent extraction process and numerical problems.
- Purification of organic compounds by various method.
- Defining the terms related to Stoichiometry.
- Introduction of organic chemistry and their importance to daily life, nomenclature of organic compounds.

#### **II Semester:**

- Exemplify chemical bonding, describe the metallic bonding and molecular bonding approach.
- Discuss the nomenclature, properties and mechanisms of aromatic hydrocarbons such as alkyl benzenes, alkyl halides.
- Explanation of kinetic reactions and their mechanism with example and its application.
- Explanation of electrolytes and types of electrolytic effects.
- Discuss hydrolysis of salt and its types, degree of hydrolysis and its relationship with hydrolysis of salt, pH of salt solutions and problems.
- Preparation and synthetic applications of organic reagents and their advantages over inorganic reagents.
- Manufacture, types with examples of soaps, detergents, waxes.

### **III Semester:**

- Chemistry of d and f-block elements, lanthanides and actinides.
- Electronic spectra of transition metal complexes.
- Classification of organometallic compounds with suitable example.  
Understand chemical reactions of Alcohols, Ethers, Epoxides, Crown ethers and carbonyl compounds on the basis of their functional groups.
- Explain the theories of reaction rates and laws of thermodynamics.
- Deduce the relationships related to Gibbs free energy.
- Symmetry of elements, Miller indices, Bravais lattices and X-ray diffraction studies and Numerical problems.
- Introduction, principle, instrumentation and applications of different types of chromatographic techniques.
- Introduction, properties and application of Nanotechnology.
- Structure, classification with examples of Amino acids and proteins.

### **IV Semester:**

- Classify ligands and describe the theories of structure and bonding. Summarise the application of co-ordination complexes.
- Explanation of valence bond, crystal field and ligand field theories by taking example as a suitable metal complexes.
- Defining the terms related to stereochemistry. Differentiate various sugars in carbohydrates and identify their structure.
- Application of conductance measurements.
- Physical and chemical constitution of liquids, definition of viscosity, surface tension, parachor.



## **V Semester:**

### **Paper V**

- Chemistry of d and f-block elements, lanthanides and actinides.
- Electronic spectra of transition metal complexes, co-ordination theory, bio-inorganic chemistry and metal cluster.
- Classify ligands and describe the theories of structure and bonding Summarise the application of co-ordination complexes.
- Defining the terms related to stereochemistry.
- Differentiate various sugars in carbohydrates and identify their structure.
- To list the principles of green chemistry and its application,
- Synthetic polymer and molecular rearrangements.
- Preparation of keto-enol tautomerism in ethyl acetoacetate, its evidence and several application of acids.



### **Paper VI**

- Symmetry of elements, Miller indices, Bravais lattices and X-ray diffraction studies and numerical problems.
- Definition of liquid crystal its classification and its application.
- Regions of spectra, laws of photochemistry, Principle, construction and working of spectrophotometry and photochemistry.
- Explain the principles, mathematical expressions and applications of rotational, vibrational, Raman and electronic spectroscopy.
- Colour & constitution of dyes and its synthesis.
- Isoprene rule, steam distillation and solvent extraction method of isolation. Structural methods of natural pigments.
- Introduction, principle, instrumentation and applications of different types of chromatographic techniques.

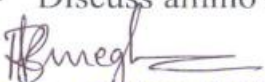
## **VI Semester:**

### **Paper VII**

- Classifying silicates, select reducing agents from Ellingham's diagrams. Illustrate the different methods of metallurgical process.
- Discuss the industrial, materials in details. Classify the phosphozenes and fluorocarbons.
- Industrial applications of refractories, abrasives, explosives and paints.
- Define the term and classify the fuels and propellants.
- Discuss the application of nanotechnology, carbon nanotubes, nanowires and nanomaterial.
- Discuss the chemistry of silicates, zeolite carbide, fullerene and halogen compounds.
- Explain heterocyclic compounds including five and six member ring.
- Explanation and application of synthetic drugs, dyes, alkaloids, vitamins, pesticides.

### **Paper VIII:**

- Terms related to electrochemistry and discuss the application and anomalous properties of transport number.
- Application of conductance measurements.
- Types of conductometric titrations.
- Explain electromotive force-I, II. Types of electrodes and fuel cell.
- Application of electromotive force measurements.
- Explanation of kinetic reactions and their mechanism with example and its application.
- Describe phase rule and its application in one and two component systems and define the terms involved it.
- Spectroscopic methods: U.V, I. R and NMR.
- Discuss amino acids, pesticides and proteins.

  
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**DEPARTMENT OF MATHEMATICS**

**Programme Outcomes (PO):**

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

**PO 1 Disciplinary Knowledge:** Bachelor degree in Mathematics is the Culmination of in-depth knowledge of Algebra, Calculus, Geometry, Differential equations and several other branches of pure and applied Mathematics. This also leads to study the related areas such as computer science and other allied subjects

**PO 2 Communication Skills:** Ability to communicate various mathematical concepts effectively using examples and their geometrical visualization. The skills and knowledge gained in this program will lead to the Proficiency in analytical reasoning which can be used for modeling and Solving of real life problems.

**PO 3 Critical thinking and analytical reasoning:** The students undergoing this programme acquire ability of critical thinking and logical reasoning and capability of recognizing and distinguishing the various aspects of real life problems.

**PO 4 Problem Solving:** The Mathematical knowledge gained by the students through this programme develops an ability to analyze the problems, identify and define appropriate computing requirements for its solutions. This programme enhances students overall development and also equip them with mathematical modelling ability, problem solving skills.

**PO 5 Research related skills:** The completing this programme develops the capability of inquiring about appropriate questions relating to the Mathematical concepts in different areas of Mathematics.

**PO 6 Information/digital Literacy:** The completion of this programme will enable the learner to use appropriate software's to solve system of algebraic equation and differential equations.

**PO 7 Self – directed learning:** The student completing this program will develop an ability of working independently and to make an in-depth study of various notions of Mathematics.

**PO 8 Moral and ethical awareness/reasoning:** : The student completing this program will develop an ability to identify unethical behavior such as fabrication, falsification or misinterpretation of data and adopting objectives, unbiased and truthful actions in all aspects of life in general and Mathematical studies in particular.

**PO 9 Lifelong learning:** This programme provides self-directed learning and lifelong learning skills. This programme helps the learner to think independently and develop algorithms and computational skills for solving real word problems.

**PO 10 Ability to peruse advanced studies and research in pure and applied Mathematical sciences.**

*Deep B. J*

HOD OF MATHEMATICS  
SAC COLLEGE OF ARTS  
COMMERCE & SCIENCE  
Nagamangala, Mandya Dist

*[Signature]*  
PRINCIPAL

Sri Adichunchanagiri College  
of Arts and Commerce  
Nagamangala-571 432, Mandya Dist

### Programme Specific Outcomes:

- Understanding of the fundamental axioms in mathematics and capability of developing ideas based on them.
- Inculcate mathematical reasoning.
- Prepare and motivate students for research studies in mathematics and related fields.
- Provide knowledge of a wide range of mathematical techniques and application of mathematical methods/tools in other scientific and engineering domains.
- Provide advanced knowledge on topics in mathematics, empowering the students to pursue higher degrees at reputed academic institutions.
- Nurture problem solving skills, thinking, creativity through
- Assist students in preparing (personal guidance, books) for competitive exams.
- Learn *Free and Open Source Software (FOSS)* tools for computer programming
- Solve problem on algebra and calculus by using FOSS software's.
- Acquire knowledge of applications of algebra and calculus through FOSS
- Think in a critical manner.
- Know when there is a need for information, to be able to identify, locate, evaluate, and effectively use that information for the issue or problem at hand.
- Formulate and develop mathematical arguments in a logical manner.
- Acquire good knowledge and understanding in advanced areas of mathematics and statistics, chosen by the student from the given courses.

*Deepa B. J.*

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# Sri Adichunchanagiri College of Arts and Commerce

Nagamangala, Mandya District-571432



## DEPARTMENT OF MATHEMATICS

YEAR:2016-2017

<b>PAPER I: ALGEBRA I AND DIFFERENTIAL CALCULUS I</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Apply the matrix theory to solve the system of linear equations.</li> <li>• Apply the knowledge of successive differentiation to solve the problems relative with standard formulae.</li> <li>• Apply Leibnitz theorem to find <math>n^{\text{th}}</math> differentiation of functions.</li> <li>• Apply the knowledge of reduction formulae and differentiation under integral sign by Leibnitz rule to solve integral equations.</li> <li>• Solve problems on matrices, differential equations and definite integral equations by using wxmaxima in Lab.</li> </ul>
<b>PAPER II: DIFFERENTIAL CALCULUS-II AND INTEGRAL CALCULUS I</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Apply continuity and differentiability of a function at a point.</li> <li>• Apply Rolle's, Lagrange's mean value theorem to Calculate the limit of a function using L'Hospital rule.</li> <li>• Compute the integrals of a function of two and three independent variables along with applications.</li> </ul>
<b>Paper III: ALGEBRA II AND DIFFERENTIAL EQUATION I</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Assess properties implied by the definitions of groups</li> <li>• Use various canonical types of groups (including cyclic groups and groups of permutation)</li> <li>• Analyze and demonstrate examples of subgroups, Normal Subgroups and quotient groups.</li> <li>• Obtain the solution of differential equations by the method of separation of variables, homogeneous, Linear and exact differential equations</li> <li>• Obtain an integrating factor which may reduce a given differential equation into an exact one and provide its Solution</li> <li>• Find the complementary function and particular integrals of Linear differential Equations</li> </ul>
<b>Paper IV: DIFFERENTIAL EQUATION II AND INTEGRAL CALCULUS II</b>	
<b>Course Outcomes</b>	<p>After completing the course the learner should be able to:</p> <ul style="list-style-type: none"> <li>• Method of Solution of the differential equation of the form <math>dx/P = dy/Q = dz/R</math></li> <li>• Use Lagrange's method for solving the first order linear Partial differential equations</li> <li>• Learn the definition &amp; concept of line integral .</li> <li>• Evaluations of double integral &amp; triple integrals.</li> <li>• Find the volume of given surface by using triple integrals.</li> </ul>
<b>Paper V:REAL ANALYSIS AND APPLIED MATHEMATICS</b>	



<b>Course Outcomes</b>	<p>After completing the course the learner should be able to:</p> <ul style="list-style-type: none"> <li>• Understand the term Convergence.</li> <li>• Applies this term in to problems.</li> <li>• Illustrate the convergence properties of infinite series.</li> <li>• Test the convergence of infinite series by comparison tests, D 'Alembert's ratio test, Raabe's test. Cauchy's root test.</li> <li>• Definitions and basic properties of Laplace Transforms.</li> <li>• Convolution theorem &amp; its applications.</li> <li>• Know that any periodic function can be expressed as a Fourier Series.</li> <li>• Know how to obtain Fourier Series of given Periodic function.</li> <li>• Expand even or odd function as half range cosine or sine fourier series.</li> </ul>
<b>Paper VI: ALGEBRA III AND REAL ANALYSIS</b>	
<b>Course Outcomes</b>	<p>On successful completion of the course the students should be able to:</p> <ul style="list-style-type: none"> <li>• Write precise and accurate Mathematical definitions of ring Theory.</li> <li>• Analyze &amp; Demonstrate examples of ideals and quotient ring.</li> <li>• Use the concepts of isomorphism and homomorphism for rings.</li> <li>• Finding the greatest common divisor of polynomials.</li> <li>• Learn the definition of Riemann integral, upper sums and lower sums.</li> </ul>
<b>Paper VII: ALGEBRA IV AND CALCULUS III</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Understand the idea about vectors space.</li> <li>• Analyze finite and infinite dimensional Vectors space and Subspaces over a field and their properties, including basis structure of vector spaces.</li> <li>• Use the definition and properties of linear transformation and matrices of linear transformations and change of basis including kernel, range and isomorphism.</li> <li>• Compute with the characteristic polynomials eigen vectors, eigen spaces.</li> <li>• Understand the definition of improper integrals .</li> <li>• Evaluation of improper integrals using Beta and gamma functions.</li> <li>• Differentiate vector fields.</li> <li>• Determine gradient of scalar point function curl and divergence of vector point functions.</li> </ul>
<b>Paper VIII: COMPLEX ANALYSIS AND NUMERICAL ANALYSIS</b>	
<b>Course Outcomes</b>	<p>Upon completion of the course the students should be able to:</p> <ul style="list-style-type: none"> <li>• Represent Complex Numbers algebraically and geometrically.</li> <li>• Apply the concept and consequences of analyticity and Cauchy-Riemann equation and results on harmonic functions.</li> <li>• Evaluate complex contour integrals directly and by the fundamental theorem, apply the Cauchy integral theorem.</li> <li>• Understand the concepts of floating point errors in representing numbers solving equations using different methods.</li> <li>• Solve the problems using numerical Differentiation and Integration.</li> <li>• Solve the system of linear equations by using numerical methods.</li> </ul>

**Sri Adichunchanagiri College of Arts and Commerce**  
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**DEPARTMENT OF MATHEMATICS**

**YEAR:2017-2018**

<b>PAPER I: ALGEBRA I AND DIFFERENTIAL CALCULUS I</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Apply the matrix theory to solve the system of linear equations.</li> <li>• Apply the knowledge of successive differentiation to solve the problems relative with standard formulae.</li> <li>• Apply Leibnitz theorem to find <math>n^{\text{th}}</math> differentiation of functions.</li> <li>• Apply the knowledge of reduction formulae and differentiation under integral sign by Leibnitz rule to solve integral equations.</li> <li>• Solve problems on matrices, differential equations and definite integral equations by using wxmaxima in Lab.</li> </ul>
<b>PAPER II: DIFFERENTIAL CALCULUS-II AND INTEGRAL CALCULUS I</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Apply continuity and differentiability of a function at a point.</li> <li>• Apply Rolle's, Lagrange's mean value theorem to Calculate the limit of a function using L'Hospital rule.</li> <li>• Compute the integrals of a function of two and three independent variables along with applications.</li> </ul>
<b>Paper III: ALGEBRA II AND DIFFERENTIAL EQUATION I</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Assess properties implied by the definitions of groups</li> <li>• Use various canonical types of groups (including cyclic groups and groups of permutation)</li> <li>• Analyze and demonstrate examples of subgroups, Normal Subgroups and quotient groups.</li> <li>• Obtain the solution of differential equations by the method of separation of variables, homogeneous, Linear and exact differential equations</li> <li>• Obtain an integrating factor which may reduce a given differential equation into an exact one and provide its Solution</li> <li>• Find the complementary function and particular integrals of Linear differential Equations</li> </ul>
<b>Paper IV: DIFFERENTIAL EQUATION II AND INTEGRAL CALCULUS II</b>	
<b>Course Outcomes</b>	<p>After completing the course the learner should be able to:</p> <ul style="list-style-type: none"> <li>• Method of Solution of the differential equation of the form <math>dx/P = dy/Q = dz/R</math></li> <li>• Use Lagrange's method for solving the first order linear Partial differential equations</li> <li>• Learn the definition &amp; concept of line integral .</li> <li>• Evaluations of double integral &amp; triple integrals.</li> <li>• Find the volume of given surface by using triple integrals.</li> </ul>
<b>Paper V: REAL ANALYSIS AND APPLIED MATHEMATICS</b>	
<b>Course Outcomes</b>	<p>After completing the course the learner should be able to:</p> <ul style="list-style-type: none"> <li>• Understand the term Convergence.</li> <li>• Applies this term in to problems.</li> <li>• Illustrate the convergence properties of infinite series.</li> <li>• Test the convergence of infinite series by comparison tests, D'Alembert's ratio test, Raabe's test. Cauchy's root test.</li> <li>• Definitions and basic properties of Laplace Transforms.</li> </ul>



	<ul style="list-style-type: none"> <li>• Convolution theorem &amp; its applications.</li> <li>• Know that any periodic function can be expressed as a Fourier Series</li> <li>• Know how to obtain Fourier Series of given Periodic function.</li> <li>• Expand even or odd function as half range cosine or sine fourier series.</li> </ul>
<b>Paper VI: ALGEBRA III AND REAL ANALYSIS</b>	
<b>Course Outcomes</b>	<p>On successful completion of the course the students should be able to:</p> <ul style="list-style-type: none"> <li>• Write precise and accurate Mathematical definitions of ring Theory.</li> <li>• Analyze &amp; Demonstrate examples of ideals and quotient ring.</li> <li>• Use the concepts of isomorphism and homomorphism for rings.</li> <li>• Finding the greatest common divisor of polynomials.</li> <li>• Learn the definition of Riemann integral, upper sums and lower sums.</li> </ul>
<b>Paper VII: ALGEBRA IV AND CALCULUS III</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Understand the idea about vectors space.</li> <li>• Analyze finite and infinite dimensional Vectors space and Subspaces over a field and their properties, including basis structure of vector spaces.</li> <li>• Use the definition and properties of linear transformation and matrices of linear transformations and change of basis including kernel, range and isomorphism.</li> <li>• Compute with the characteristic polynomials eigen vectors, eigen spaces.</li> <li>• Understand the definition of improper integrals .</li> <li>• Evaluation of improper integrals using Beta and gamma functions.</li> <li>• Differentiate vector fields.</li> <li>• Determine gradient of scalar point function curl and divergence of vector point functions.</li> </ul>
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<b>Course Outcomes</b>	<p>Upon completion of the course the students should be able to:</p> <ul style="list-style-type: none"> <li>• Represent Complex Numbers algebraically and geometrically.</li> <li>• Apply the concept and consequences of analyticity and Cauchy-Riemann equation and results on harmonic functions.</li> <li>• Evaluate complex contour integrals directly and by the fundamental theorem, apply the Cauchy integral theorem.</li> <li>• Understand the concepts of floating point errors in representing numbers solving equations using different methods.</li> <li>• Solve the problems using numerical Differentiation and Integration.</li> <li>• Solve the system of linear equations by using numerical methods.</li> </ul>

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**DEPARTMENT OF MATHEMATICS**

**YEAR: 2018-19**

<b>PAPER I: ALGEBRA I AND CALCULUS I</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Apply the matrix theory to solve the system of linear equations.</li> <li>• Apply the knowledge of successive differentiation to solve the problems relative with standard formulae.</li> <li>• Apply Leibnitz theorem to find <math>n^{\text{th}}</math> differentiation of functions.</li> <li>• Apply the knowledge of reduction formulae and differentiation under integral sign by Leibnitz rule to solve integral equations.</li> <li>• Solve problems on matrices, differential equations and definite integral equations by using wxmaxima in Lab.</li> </ul>
<b>PAPER II: CALCULUS-II AND THEORY OF NUMBERS</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Apply continuity and differentiability of a function at a point.</li> <li>• Apply Rolle's, Lagrange's mean value theorem to Calculate the limit of a function using L'Hospital rule.</li> <li>• Compute the integrals of a function of two and three independent variables along with applications.</li> </ul>
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	<ul style="list-style-type: none"> <li>• Test the convergence of infinite series by comparison tests, D'Alembert's ratio test, Raabe's test. Cauchy's root test.</li> <li>• Definitions and basic properties of Laplace Transforms.</li> <li>• Convolution theorem &amp; its applications.</li> <li>• Know that any periodic function can be expressed as a Fourier Series.</li> <li>• Know how to obtain Fourier Series of given Periodic function.</li> <li>• Expand even or odd function as half range cosine or sine fourier series.</li> </ul>
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<b>Paper VII: ALGEBRA IV AND CALCULUS III</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Understand the idea about vectors space.</li> <li>• Analyze finite and infinite dimensional Vectors space and Subspaces over a field and their properties, including basis structure of vector spaces.</li> <li>• Use the definition and properties of linear transformation and matrices of linear transformations and change of basis including kernel, range and isomorphism.</li> <li>• Compute with the characteristic polynomials eigen vectors, eigen spaces.</li> <li>• Understand the definition of improper integrals .</li> <li>• Evaluation of improper integrals using Beta and gamma functions.</li> <li>• Differentiate vector fields.</li> <li>• Determine gradient of scalar point function curl and divergence of vector point functions.</li> </ul>
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<b>Course Outcomes</b>	<p>Upon completion of the course the students should be able to:</p> <ul style="list-style-type: none"> <li>• Represent Complex Numbers algebraically and geometrically.</li> <li>• Apply the concept and consequences of analyticity and Cauchy-Riemann equation and results on harmonic functions.</li> <li>• Evaluate complex contour integrals directly and by the fundamental theorem, apply the Cauchy integral theorem.</li> <li>• Understand the concepts of floating point errors in representing numbers solving equations using different methods.</li> <li>• Solve the problems using numerical Differentiation and Integration.</li> <li>• Solve the system of linear equations by using numerical methods.</li> </ul>

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**DEPARTMENT OF MATHEMATICS**

**YEAR:2019-2020**

<b>PAPER I: ALGEBRA I AND CALCULUS I</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Apply the matrix theory to solve the system of linear equations.</li> <li>• Apply the knowledge of successive differentiation to solve the problems relative with standard formulae.</li> <li>• Apply Leibnitz theorem to find <math>n^{\text{th}}</math> differentiation of functions.</li> <li>• Apply the knowledge of reduction formulae and differentiation under integral sign by Leibnitz rule to solve integral equations.</li> <li>• Solve problems on matrices, differential equations and definite integral equations by using wxmaxima in Lab.</li> </ul>
<b>PAPER II: CALCULUS-II AND THEORY OF NUMBERS</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Apply continuity and differentiability of a function at a point.</li> <li>• Apply Rolle's, Lagrange's mean value theorem to Calculate the limit of a function using L'Hospital rule.</li> <li>• Compute the integrals of a function of two and three independent variables along with applications.</li> </ul>
<b>Paper III: ALGEBRA II AND DIFFERENTIAL EQUATION I</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Assess properties implied by the definitions of groups</li> <li>• Use various canonical types of groups (including cyclic groups and groups of permutation)</li> <li>• Analyze and demonstrate examples of subgroups, Normal Subgroups and quotient groups.</li> <li>• Obtain the solution of differential equations by the method of separation of variables, homogeneous, Linear and exact differential equations</li> <li>• Obtain an integrating factor which may reduce a given differential equation into an exact one and provide its Solution</li> <li>• Find the complementary function and particular integrals of Linear differential Equations</li> </ul>
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<b>Course Outcomes</b>	<p>After completing the course the learner should be able to:</p> <ul style="list-style-type: none"> <li>• Method of Solution of the differential equation of the form <math>dx/P = dy/Q = dz/R</math></li> <li>• Use Lagrange's method for solving the first order linear Partial differential equations</li> <li>• Learn the definition &amp; concept of line integral .</li> <li>• Evaluations of double integral &amp; triple integrals.</li> <li>• Find the volume of given surface by using triple integrals.</li> <li>• Criterion for integrability.</li> <li>• Fundamental theorem of integral calculus.</li> <li>• Learn the definition of Riemann integral, upper sums and lower sums.                             <ul style="list-style-type: none"> <li>• Learn First and Second Mean Value theorems of integral calculus</li> </ul> </li> </ul>
<b>Paper V: REAL ANALYSIS AND APPLIED MATHEMATICS</b>	
<b>Course Outcomes</b>	<p>After completing the course the learner should be able to:</p> <ul style="list-style-type: none"> <li>• Understand the term Convergence.</li> </ul>



	<ul style="list-style-type: none"> <li>• Applies this term in to problems.</li> <li>• Illustrate the convergence properties of infinite series.</li> <li>• Test the convergence of infinite series by comparison tests, D'Alembert's ratio test, Raabe's test. Cauchy's root test.</li> <li>• Definitions and basic properties of Laplace Transforms.</li> <li>• Convolution theorem &amp; its applications.</li> <li>• Know that any periodic function can be expressed as a Fourier Series.</li> <li>• Know how to obtain Fourier Series of given Periodic function.</li> <li>• Expand even or odd function as half range cosine or sine fourier series.</li> </ul>
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<b>Course Outcomes</b>	<p>On successful completion of the course the students should be able to:</p> <ul style="list-style-type: none"> <li>• Write precise and accurate Mathematical definitions of ring Theory.</li> <li>• Analyze &amp; Demonstrate examples of ideals and quotient ring.</li> <li>• Use the concepts of isomorphism and homomorphism for rings.</li> <li>• Finding the greatest common divisor of polynomials.</li> <li>• Learn the definition of Riemann integral, upper sums and lower sums.</li> </ul>
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<b>Paper VIII: COMPLEX ANALYSIS AND NUMERICAL ANALYSIS</b>	
<b>Course Outcomes</b>	<p>Upon completion of the course the students should be able to:</p> <ul style="list-style-type: none"> <li>• Represent Complex Numbers algebraically and geometrically.</li> <li>• Apply the concept and consequences of analyticity and Cauchy-Riemann equation and results on harmonic functions.</li> <li>• Evaluate complex contour integrals directly and by the fundamental theorem, apply the Cauchy integral theorem.</li> <li>• Understand the concepts of floating point errors in representing numbers solving equations using different methods.</li> <li>• Solve the problems using numerical Differentiation and Integration.</li> <li>• Solve the system of linear equations by using numerical methods.</li> </ul>

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**DEPARTMENT OF MATHEMATICS**

**YEAR:2020-2021**

<b>PAPER I: ALGEBRA I AND CALCULUS I</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Apply the matrix theory to solve the system of linear equations.</li> <li>• Apply the knowledge of successive differentiation to solve the problems relative with standard formulae.</li> <li>• Apply Leibnitz theorem to find <math>n^{\text{th}}</math> differentiation of functions.</li> <li>• Apply the knowledge of reduction formulae and differentiation under integral sign by Leibnitz rule to solve integral equations.</li> <li>• Solve problems on matrices, differential equations and definite integral equations by using wxmaxima in Lab.</li> </ul>
<b>PAPER II: CALCULUS-II AND THEORY OF NUMBERS</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Apply continuity and differentiability of a function at a point.</li> <li>• Apply Rolle's, Lagrange's mean value theorem to Calculate the limit of a function using L'Hospital rule.</li> <li>• Compute the integrals of a function of two and three independent variables along with applications.</li> </ul>
<b>Paper III: ALGEBRA II AND DIFFERENTIAL EQUATION I</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Assess properties implied by the definitions of groups</li> <li>• Use various canonical types of groups (including cyclic groups and groups of permutation)</li> <li>• Analyze and demonstrate examples of subgroups, Normal Subgroups and quotient groups.</li> <li>• Obtain the solution of differential equations by the method of separation of variables, homogeneous, Linear and exact differential equations</li> <li>• Obtain an integrating factor which may reduce a given differential equation into an exact one and provide its Solution</li> <li>• Find the complementary function and particular integrals of Linear differential Equations</li> </ul>
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	<ul style="list-style-type: none"> <li>Learn the definition of Riemann integral, upper sums and lower sums.</li> <li>Learn First and Second Mean Value theorems of integral calculus</li> </ul>
<b>PAPER V: DSE: REAL ANALYSIS II AND ALGEBRA –I</b>	
<b>Course Outcomes</b>	<p>After completing the course the learner should be able to:</p> <ul style="list-style-type: none"> <li>Understand the term Convergence.</li> <li>Applies this term in to problems.</li> <li>Illustrate the convergence properties of infinite series.</li> <li>Test the convergence of infinite series by comparison tests,</li> <li>D ‘Alembert’s ratio test, Raabe’s test. Cauchy’s root test.</li> <li>Write precise and accurate Mathematical definitions of ring Theory.</li> <li>Analyze &amp; Demonstrate examples of ideals and quotient ring.</li> <li>Use the concepts of isomorphism and homomorphism for rings.</li> <li>Finding the greatest common divisor of polynomials.</li> </ul>
<b>SEC PAPER: APPLIED MATHEMATICS</b>	
<b>Course Outcomes</b>	<p>After completing the course the learner should be able to:</p> <ul style="list-style-type: none"> <li>Definitions and basic properties of Laplace Transforms.</li> <li>Convolution theorem &amp; its applications.</li> <li>Know that any periodic function can be expressed as a Fourier Series.</li> <li>Know how to obtain Fourier Series of given Periodic function.</li> <li>Expand even or odd function as half range cosine or sine fourier series.</li> </ul>
<b>SEC PAPER: NUMERICAL ANALYSIS</b>	
<b>Course Outcomes</b>	<p>After completing the course the learner should be able to:</p> <ul style="list-style-type: none"> <li>Understand the concepts of floating point errors in representing numbers solving equations using different methods.</li> <li>Solve the problems using numerical Differentiation and Integration.</li> <li>Solve the system of linear equations by using numerical methods.</li> <li>Define Basic concepts of operators <math>\Delta, E, \nabla</math></li> </ul>
<b>PAPER VI: DSE: ALGEBRA-IV AND COMPLEX ANALYSIS-I</b>	
<b>Course Outcomes</b>	<p>Upon completion of the course the students should be able to:</p> <ul style="list-style-type: none"> <li>Understand the idea about vectors space.</li> <li>Analyze finite and infinite dimensional Vectors space and Subspaces over a field and their properties, including basis structure of vector spaces.</li> <li>Use the definition and properties of linear transformation and matrices of linear transformations and change of basis including kernel, range and isomorphism.</li> <li>Compute with the characteristic polynomials eigen vectors, eigen spaces</li> <li>Represent Complex Numbers algebraically and geometrically.</li> <li>Apply the concept and consequences of analyticity and Cauchy-Riemann equation and results on harmonic functions.</li> </ul>



	<ul style="list-style-type: none"> <li>• Define Bilinear transformation, cross ratio, fixed point.</li> <li>• Write the bilinear transformation which maps real line to real line, unit circle to unit circle, real line to unit circle.</li> </ul>
<b>SEC PAPER I: COMPLEX ANALYSIS II AND IMPROPER INTEGRALS</b>	
<b>Course Outcomes</b>	<p>Understand the definition of improper integrals .</p> <ul style="list-style-type: none"> <li>• Calculate of the complex and real integrals.</li> <li>• Evaluate complex contour integrals directly and by the fundamental theorem, apply the Cauchy integral theorem</li> <li>• Evaluation of improper integrals using Beta and gamma functions.</li> <li>• Differentiate vector fields.</li> <li>• Determine gradient of scalar point function curl and divergence of vector point functions.</li> </ul>
<b>SEC PAPER II: GRAPH THEORY</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Describe the origin of Graph Theory.</li> <li>• Illustrate different types of graph theory.</li> <li>• Explain independent sets and covering sets and some basic theorems.</li> <li>• Discuss degree sequences and operations on graphs.</li> <li>• Explain connectedness and components and some theorems.</li> <li>• Characterize tree.</li> <li>• Derive some properties of planarity and Euler's formula.</li> <li>• Find chromatic number and chromatic polynomials for graphs.</li> <li>• Prove Five colour theorem.</li> <li>• Explain basic properties of directed graphs.</li> </ul>
<b>Paper V: DSE: REAL ANALYSIS II AND ALGEBRA-III</b>	
<b>Course Outcomes</b>	<p>After completing the course the learner should be able to:</p> <ul style="list-style-type: none"> <li>• Understand the term Convergence.</li> <li>• Applies this term into problems.</li> <li>• Illustrate the convergence properties of infinite series.</li> <li>• Test the convergence of infinite series by comparison tests, D'Alembert's ratio test, Raabe's test. Cauchy's root test.</li> <li>• Write precise and accurate Mathematical definitions of ring Theory.</li> <li>• Analyze &amp; Demonstrate examples of ideals and quotient ring.</li> <li>• Use the concepts of isomorphism and homomorphism for rings</li> </ul>
<b>SEC I: APPLIED MATHEMATICS</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Definitions and basic properties of Laplace Transforms.</li> <li>• Convolution theorem &amp; its applications.</li> <li>• Know that any periodic function can be expressed as a Fourier Series.</li> <li>• Know how to obtain Fourier Series of given Periodic function.</li> <li>• Expand even or odd function as half range cosine or sine fourier series.</li> </ul>
<b>SEC II: NUMERICAL ANALYSIS</b>	



<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Understand the concepts of floating point errors in representing numbers solving equations using different methods.</li> <li>• Solve the problems using numerical Differentiation and Integration.</li> <li>• Solve the system of linear equations by using numerical methods.</li> </ul>
<b>Paper VI:DSE: ALGEBRA IV AND COMPLEX ANALYSIS I</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Understand the idea about vectors space.</li> <li>• Analyze finite and infinite dimensional Vectors space and Subspaces over a field and their properties, including basis structure of vector spaces.</li> <li>• Use the definition and properties of linear transformation and matrices of linear transformations and change of basis including kernel, range and isomorphism.</li> <li>• Compute with the characteristic polynomials eigen vectors, eigen spaces.</li> <li>• Represent Complex Numbers algebraically and geometrically.</li> <li>• Apply the concept and consequences of analyticity and Cauchy-Riemann equation and results on harmonic functions.</li> <li>• Evaluate complex contour integrals directly and by the fundamental theorem, apply the Cauchy integral theorem.</li> <li>• solving the bilinear transformation.</li> </ul>
<b>SEC I: COMPLEX ANALYSIS I AND IMPROPER INTEGRALS</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Describe the basic properties of complex integration and having the ability to compute such integrals.</li> <li>• Give the main ideas in the proof of CIT, Direct consequence of Cauchy's theorem, the Cauchy's Inequality, liouville's theorem.</li> <li>• Understand the definition of improper integrals .</li> <li>• Evaluation of improper integrals using Beta and gamma functions.</li> </ul>
<b>SEC II: GRAPH THEORY</b>	
<b>Course Outcomes</b>	<ul style="list-style-type: none"> <li>• Defines and finds a graph, identifying edges and vertices.</li> <li>• Able to define the basic concepts of graphs.</li> <li>• Defines a bipartite graphs.</li> <li>• Explains lists basic properties of trees.</li> <li>• Able to understand eulerian and Hamiltonian graphs.</li> </ul>

The logo is a circular seal for Sri Adichunchanagiri College of Arts & Commerce. It contains the text 'SRI ADICHUNCHANAGIRI COLLEGE OF ARTS & COMMERCE' around the perimeter, 'Nagamangala-571 432' in the center, and 'Mandya Dist.' below it.

**Sri Adichunchanagiri College of Arts and Commerce**  
Nagamangala, Mandya District.

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**Department of Computer Science**

**The objectives of the Program.**

1. The primary objective of this program is to provide a foundation of computing principles for effectively using information systems and enterprise software.
2. It helps students analyze the requirements for system programming and exposes students for information systems
3. This programme provides students with options to specialize in various software system.
4. To produce outstanding Computer Scientists who can apply the theoretical knowledge into practice in the real world and develop standalone live projects themselves
5. To provide opportunity for the study of modern methods of information processing and its applications.
6. To develop among students the programming techniques and the problemsolving skills through programming
7. To prepare students who wish to go on to further studies in computer science and related subjects.
8. To acquaint students to Work effectively with a range of current, standard, Office Productivity software applications

**Program Outcomes**

1. Discipline knowledge: Acquiring knowledge on basics of Computer Science and ability to apply to design principles in the development of solutions for problems of varying complexity .
2. Design and Development of Solutions: Ability to design and development of algorithmic solutions to real world problems.
3. Programming a computer: Exhibiting strong skills required to program a computer for various issues and problems of day-to-day scientific applications.
4. Application Systems Knowledge: Possessing a minimum knowledge to practice existing computer application software.



5. Communication: Must have a reasonably good communication knowledge both in oral and writing.
6. Lifelong Learning: Should become an independent learner. So, learn to learn ability.
7. Motivation to take up Higher Studies: Inspiration to continue educations towards advanced studies on Computer Science.
8. Design and develop computer programs/computer-based systems in the areas related to AI, algorithms, networking, web design, cloud computing, IoT and data analytics.
9. The ability to apply the knowledge and understanding noted above to the analysis of a given information handling problem.
10. The ability to work independently on a substantial software project and as an effective team member

1	<b>Course Outcome: Semester I: Computer Concept and C Program</b>	Illustrate the flowchart and designing an algorithm for a given problem to develop c programs using operators. Exercise user defined functions to solve real time problems. – c programs that use pointers to access arrays ,strings and functions. Exercise user defined data types including structures and unions to solve problems. Files concept to show input and output of files in c .
	COURSE SPECIFIC OUTCOME	On successful completion of this subject the students have the knowledge of basic computer concepts and to program in C Language.
2	<b>Course Outcome: Semester II: Data Structure and file processing :</b>	Describe how arrays, records, linked structures, stacks, queues, trees, and graphs are represented in memory and used by algorithms Implementations Discuss the computational efficiency of the principal algorithms for sorting, searching.
	COURSE SPECIFIC OUTCOME	Better understanding of data structures. To acquaint theoretical as well as practical knowledge in the usage of various data structures and to create simple applications.
3	<b>Course Outcome: Semester III : Object Oriented Programming language with Java</b>	Able to use of OOPs concepts, abstraction, Packages and Interface, develop and understand exception handling, Multithreaded applications . Able to design GUI based applications and develop applets for web applications. Able to handle IO streams Use and create package and interfaces in a Java program.
	COURSE SPECIFIC OUTCOME	Learns the basic Java ,it is stepping stone to learn Advance Java. To inculcate knowledge on Java Programming concepts at the basic level and also provide them hands on with practical in Graphics programming.

4	<b>Course Outcome: Sem IV Data Base Management System.</b>	Familiarization with knowledge of database models. Ability to code database transactions using SQL. Usage of DDL, DML and TCL statements.
	<b>COURSE SPECIFIC OUTCOME</b>	Students learn to write Queries. To attract young minds to bring out the skills in DBMS software and networks.
5	<b>Course Outcome: Sem V Operating System and system Software/system software &amp; operating system.</b>	Analyze the structure components, types, functions and components involved in OS. Understand the Deadlock and memory management. Analyze the various device and resource management techniques. Conceptualize the components involved in designing a contemporary OS.
	<b>COURSE SPECIFIC OUTCOME</b>	To inculcate knowledge about various Operating systems, CPU scheduling algorithms and memory management's techniques which they learn to implement it.
6	<b>Semester V Web designing</b>	Understand analyses and build web pages using HTML, use of frames, images, linking multiple pages. To understand design and implement typical static and dynamic web pages and interactive web applications.
7	<b>Course Outcome: Sem V Object Oriented Programming using C++</b>	Able to learn concepts of streams, classes, functions, data and objects • Implement dynamic memory allocation techniques & different types of functions- function overloading, operator overloading and inheritance to solve real-world problems. • Learn Objects, Classes, Methods, Constructors and Destructors. • Describe & implement the concept of constructor, destructor & operator overloading ,Inheritance Single Inheritance, Multiple Inheritance, Multi-level Inheritance, Hierarchical Inheritance and Hybrid Inheritance
	<b>COURSE SPECIFIC OUTCOME</b>	Students learns the concepts of Object-oriented programming using C++ and to design simple applications
8	<b>Course Outcome: Sem VI Operation Research</b>	Identify and develop operational research models from the verbal description of the real system. Understand the mathematical tools that are needed to solve optimization problems. Use mathematical software to solve the proposed models.
9	<b>Course Outcome: Sem VI Data communication and Computer Networks.</b>	Learn about types of network, Transmission media, mode, methods. OSI model, TCP/IP Model. Protocols HTTP, telnet, SMTP, ARP, RARP, ICMP, IGMP....
	<b>COURSE SPECIFIC OUTCOME</b>	To acquaint knowledge on basic Networking concepts like LAN and technologies like wireless, broadband and other design issues and also about basic data communication concepts.

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