



JAMMALAMADUGU - 516 434

AFFILIATED TO YOGI VEMANA UNIVERSITY.

Accredited by NAAC with " C++ " Grade

Dr.G.Chandra Sekhar M.Sc., M.Phil., Ph.D

Principal

9398438169, 9440419368, 08560 - 200065

College Website: www. gdcjammalamadugu.ac.in JKC E-mail: jammalamadugu.jkc@gmail.com

Criteria-2

2.6.2 (Additional Information)

Attainment Of Programme Outcomes And Course Outcomes Are Evaluated By The Institution.

2017-2018 to 2021-2022





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PROGRAM OUTCOMES

B.Sc (Bachelor of Science)

After completing three years for Bachelors in Science (B.Sc) program, students would:

PO1: Acquired the knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, and Computer Science etc.

PO2: Understood the basic concepts, fundamental principles, and the scientific theories related to various scientific & Computer phenomena and their relevancies in the day-to-day life.

PO3: Acquired the skills in handling scientific and Computer equipments, planning and performing in laboratory experiments.

PO4: Analyzed the given scientific data critically and systematically and the ability to draw the objective conclusions.

PO5: Been able to think creatively (divergently and convergent) to propose novel ideas in explaining facts and figures or providing new solution to the problems.

PO6: Realized how developments in any science subject helps in the development of other science subjects and vice-versa and how interdisciplinary approach helps in providing better solutions and new ideas for the sustainable development in Society.

PO7: Imbibed ethical, moral and social values in personal and social life leading to highly cultured and civilized personality.

PO8: Developed various communication skills such as reading, listening, speaking, etc., which we will help in expressing ideas and views clearly and effectively.

PO9: Realized that pursuit of knowledge is a lifelong activity and in combination with constant efforts and positive attitude and other necessary qualities leads towards a successful life.

PO10: After the completion of this course students have the option to go for higher

studies, also offers opportunities for serving in state and central government s in various jobs.





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BA (Bachelor of Arts)

After completing three years for Bachelors in Arts (B.A) program, students would:

PO1: Understand the world, their country, their society, as well as themselves and have awareness of ethical problems, social rights, values and responsibility to the self and to others.

PO2: Obtain wider knowledge of facts and figures of the past and make the learner assimilate the essence of that through multidisciplinary approach. It takes them into the intellectual forum through the study of history.

PO3: The Sociology students can develop the sociological knowledge and skills that will enable them to think critically and imaginatively about society and social issues.

PO4: The students understand the basic principles of Politics, including governing institutions and branches, political wings and organizations, political behavior and the operation of government at both the national and state levels.

PO5: Students will be familiar with introductory, canonical models of consumer and producer behavior and of macro economy have a basic understanding of the operation of a modern economy be able to evaluate the effects of government interventions in individual markets and in the macro Economy. They can analyze operations of markets under varying competitive conditions. They can analyze causes and consequences of unemployment, inflation and economic growth.

PO6: Think critically, follow innovations and developments in science

and technology, demonstrate personal and organizational entrepreneurship and engage in life-long learning in various subjects.

PO7: Take individual and team responsibility, function effectively and respectively as an individual and a member or a leader of a team; and have the skills to work effectively in multi-disciplinary teams.

PO8: Develop knowledge of theories, concepts, and research methods in humanities and social sciences.

PO9: Assess how global, national and regional developments affect society.

PO10: Develop the ability to make logical inferences about social and political issues on the basis of comparative and historical knowledge.





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B.Com (Bachelor of Commerce)

After completing three years for Bachelors in Commerce (B.Com) program, students would:

PO1: Thorough grounding in the fundamentals of Commerce and Finance.

PO2: The commerce and finance focused curriculum offers a number of specializations and practical exposures which would equip the student to face the modern-day challenges in commerce and business.

PO3: Develope management skills, Developed Entrepreneurial ability, numerical ability and Well familiar with business regulatory framework.

PO4: Have basic knowledge of important business laws, financial accounting and basic principles of economics.

PO5: Think critically, follow innovations and developments in business and commerce, demonstrate personal and organizational entrepreneurship and engage in life-long learning in various subjects.

PO6: Take individual and team responsibility, function effectively and respectively as an individual and a member or a leader of a team; and have the skills to work effectively in multi-disciplinary teams.

PO7: Assess how commerce helps in global, national and regional developments.

PO8: Know how to access and evaluate data from various sources of information.





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PROGRAM SPECIFIC OUTCOMES

Bachelor of Science BSc (MPCs)

After completion of B. Sc (MPCs). The students are able to:

- PSO-1: Demonstrate understanding of the principles and concepts of physics, mathematics and working of the hardware and software aspects of computer systems.
- PSO-2: Design, implements, test and evaluate various mathematics, physics and Computer laboratory experiments.
- **PSO-3:** Make aware and handle the sophisticated instruments/equipments in physics and computer science.
- PSO-4: Develop applications and research oriented skills in physics, mathematics and computer science.
- **PSO-5:** Take real situations and develop mathematical models to solve problems.
- PSO-6: Apply analytical techniques to solve problems and will be able to create, interpret and analyze graphical representations of data and equations.
- **PSO-7:** Prove proficiency with the ability to engage in higher studies.
- PSO-8: Acquire the skills like effective communication, decision making, problem solving in day to day life.
- PSO-9: Involve in various co-curricular activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.





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Bachelor of Science (MPC)

After completion of B. Sc (MPC). The students are able to:

PSO-1: Demonstrate understanding of the principles and concepts of physics, chemistry and working of the hardware and software aspects of computer systems.

PSO-2: Design, implements, test and evaluate various chemistry, physics and Mathematics experiments.

PSO-3: Make aware and handle the sophisticated instruments/equipments in chemistry, physics.

PSO-4: Develop applications and research oriented skills in chemistry, physics, and mathematics.

PSO-5: Students will take real situations and develop mathematical models to solve problems.

PSO-6: Students will be able to apply analytical techniques to solve problems and will be able to create, interpret and analyze graphical representations of data and equations.

PSO-7: Will be able to prove proficiency with the ability to engage in higher studies.

PSO-8: Students will acquire the skills like effective communication, decision making, problem solving in day to day life.

PSO-9: Students will involve in various co-curricular activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.





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Bachelor of Science (BZC)

After completion of B. Sc (BZC). The students are able to:

PSO-1: Understand the diversity of microorganisms such as viruses, mycoplasma, bacteria, algae, fungi, lichens, importance of microorganisms to man, events in life cycle of flowering plants, economic importance of plants as crop in agriculture, the cytological events and concepts, the structure and function of nucleic acids.

PSO-2: Determine the fruit and seed development, Impact of environmental factors on plants and determine physiological, biochemical and metabolic aspects of plants.

PSO-3: Acquire knowledge and importance of flowering plants, regarding relation between biotic and abiotic principles in nature.

PSO-4: help the students to understand theoretical chemistry by its practical applications in which traditional and recent approaches are used.

PSO-5: Understand the basic concept of micro fauna, macro fauna and evolution of animals.

PSO-6: Know detail knowledge of biodiversity, understand basic concept of nature and know the various environmental hazards.

PSO-7: Prove proficiency with the ability to engage in higher studies.

PSO-8: Acquire the skills like effective communication, decision making, problem solving in day to day life.

PSO-9: Involve in various co-curricular activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.





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Bachelor of Arts (HEP)

After completion of B.A (HEP). The students are able to:

PSO-1: Develop and straighter national integrity and develop the habit of cultivation and preservation of national and international heritage.

PSO-2: Create citizens having impartial vision towards life, using past to shape present and develop reasonable ability.

PSO-3: Explain Political Science methodically so as to understand on national and International political matters.

PSO-4: Talk on the issues like 'Human Rights', 'Functioning of Civil Rights', 'Equal Opportunity' and 'Freedom of Thoughts' etc.

PSO-5: Comprehensive study of Economic Thoughts, Economic Policies in India, and the Concept of Welfare State.

PSO-6: Explain various Micro Economic Policies in India and Analyze Indian Economy and determine different Economic circumstances like inflation, unemployment and poverty etc.

PSO-7: Define the concept of National Income and the co-operation movement in India. Effect of 'Globalization' and 'Free Marketing' on International Economic Policies.

PSO-8: Discuss the issues of 'International Economic Relations', 'Functioning of Monetary Funds', 'Distribution of National Income' and 'Liberty of Business' etc. thoroughly to create an Economical awareness.

PSO-9: will be able to prove proficiency with the ability to engage in higher studies.

PSO-10: Acquire the skills like effective communication, decision making, problem solving in day to day life.

PSO-11: Involve in various co-curricular activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.





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Bachelor of Commerce (GENERAL)

After completion of B. Com (GEN). The students are able to:

- PSO-1: Demonstrate progressive learning of various tax issues and tax forms related to individuals.
- PSO-2: Demonstrate progressive affective domain development of values, the role of accounting in society and business.
- PSO-3: Learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
- PSO-4: Learn relevant managerial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
- PSO-5: Gain thorough systematic and subject skills within various disciplines of commerce, business, accounting, economics, finance, auditing and marketing.
- PSO-6: Recognize features and roles of businessmen, entrepreneur, managers, consultant, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.
- PSO-7: Prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.
- PSO-8: Acquire the skills like effective communication, decision making, problem solving in day to day business affaires
- PSO-9: Involve in various co-curricular activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.
- PSO-10: Acquire practical skills to work as tax consultant, audit assistant and other financial supporting services.

PSO-11: Do higher education and advance research in the field of commerce and finance.





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Bachelor of Commerce (Computer Applications)

After completion of B. Com (CA). The students are able to:

- PSO-1: Demonstrate progressive learning of various tax issues and tax forms related to individuals.
- PSO-2: Demonstrate knowledge in setting up a computerized set of accounting books.
- PSO-3: Demonstrate progressive affective domain development of values, the role of accounting in society and business.
- PSO-4: Learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
- PSO-5: Learn relevant managerial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
- PSO-6: Gain thorough systematic and subject skills within various disciplines of commerce, business, accounting, economics, finance, auditing and marketing.
- PSO-7: Recognize features and roles of businessmen, entrepreneur, managers, consultant, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.
- PSO-8: Prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.
- PSO-9: Acquire the skills like effective communication, decision making, problem solving in day to day business affairs.
- PSO-10: Involve in various co-curricular activities to demonstrate

relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.

PSO-11: Acquire practical skills to work as tax consultant, audit assistant and other financial supporting services.

PSO-12: Do higher education and advance research in the field of commerce and finance.





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COURSE OUTCOMES

S.No	Course Code	Name of the Course	Course Outcomes
			ENGLISH
1.	1-01R	Prose, Poetry, Short story, One Act Play and Language Activity	After Completion of this course the student would be able to: CO1: Understand the varieties of cultures, languages, poetic diction, use of language; imagery etc. through exposure to various poems, essays, short-stories and one-act plays. CO2: Acquire the knowledge of language skills, vocabulary, dialogue writing etc. CO3: Read and comprehend literary pieces and grammatical ability. CO4: Apply the acquired knowledge of grammar and vocabulary to real life situations through communication and essay writing exercises.
2.	2-01-R	Prose Poetry, short story and Drama	After Completion of this course the student would be able to: CO1: Enrich their reading, writing and learning abilities. CO2: Pursue their personal, academic and career goals through the acquisition and improvement of English language skills. CO3: Apply the basic elements of grammar and tests listening, speaking and writing abilities. CO4: Explore and exploit everyday communications situations to reinforce what they have learnt.

3.	2-09	Communication and	After Completion of this course the student
3.	2-09	soft skills-I	would be able to:
			CO1: improve effective their communications skills. CO2: Impart their abilities of co-
			operation and collaboration with people. CO3: Build critical and creative
			thinking competencies.
			CO4: Make the students confident enough to face the challenges of future in using the
			language and employable. CO5: Build and enhance active vocabulary
			and ability to express effectively.
4.	3-01	Prose, Poetry, Short	After Completion of this course the student
		story, One Act Play	would be able to:
		and Language Activity	CO1: Develop the skills of guessing the meaning of un familiar words, identifying and
		Activity	synthesizing information.
			CO2: Acquire the skills of understanding different
			strategies of forming words.
			CO3: Produce a coherent and cohesive piece of writing on a given topic.
			CO4: Make the students perceive the
			deeper nuances of creativity.
			CO5: Make the learners develop their
			communication skills for their immediate needs in variety of
			social situations.
5.	3-08	Communication and	After Completion of this course the student
		soft skills-II	would be able to:
			CO1: Know the benefits of knowing the sounds and symbols of the English language.
			CO2: Know the division of syllabus and
			structure of sentence.
			CO3: Understand the different functions of
			language like greeting and introducing in various contexts.
			CO4: Make the students understand the roles
			plays and to make them participate in role-play
			successfully. CO5: Make the students understand the
			different
			aspects of English spelling and use spelling in a perfect way.
6.	4-07	Communication and	After Completion of this course the student
		soft skills-III	would be able to:
			CO1: Enable the students to acquire the soft skills which are needed in getting jobs.
			CO2: Enable then to resolve practical problems
			and professional crises through soft skills.
			CO3: Enable them equipped with drafting
			and documentation skills for professional
			excellence. CO4: Inculcate the dynamics of paragraph
			writing, summarizing and e- correspondence.
			CO5: Make the students prepare a good
			resume, curriculum vitae and
	<u> </u>		covering letter which

			ara
			are essential for a successful career.
			TELUGU
7.	1-05	Semester-I Telugu-poetry, Prose(short stories) and grammar	After Completion of this course the student would be able to: CO1: Study of Ancient Telugu Literature releases the impact of Values, Culture and Heritage on life. CO2: Understand the distinction between the ancient and modern Grammar. CO3: Understand the difference between the different Classical poets, their Works and their impact on the society. CO4: Know the basic rules of the grammar of the classics and locate the Same in Poetry selections. CO5: Know the beauty of the nature. CO6: Know the common mistakes in writing Telugu Words.
8.	2-05R	Semester-II Telugu-Poetry, Prose	After Completion of this course the student would be able to:
		(short stories) and Novel.	CO1: Understand the Distinction between the classical and modern poetry. CO2: Modern Literature deals the downtrodden and oppressed classes lives. CO3: Analyze and Interpret the socio cultural aspects based on the Prescribed Prose text. CO4: Aware the Social Evils such as suppression of women, child Marriages, Castes in dowry system. CO5: Aware the changes that taken place in villages- Impact of modernity Entered in villages, ill effect of globalization on village crafts and Artisan s life.

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9.	3-05	Semester-III	After Completion of this course the student
		Telugu-Poetry,	would be able to: CO1: Understand the importance of Noble
		Drama and grammar	thoughts and actions like Truth through the
			prescribed text.
			CO2: Know the true meaning of attractions
			towards Opposite sex and the true meaning love towards fellow mankind.
			CO3: Understand the structure of plot and
			various other Elements of Drama.
			CO4: Develop the reading, writing, spoken and
			listening skills through Grammar part.
10.	4-10	Semester- IV	After Completion of this course the student
10.	4-10	Leadership	would be able to:
		Education.	CO1: Know about Leadership and acquire the
		Education.	Characteristics of Leaders.
			CO2: Gain knowledge about organization and
			sub- systems of organization
			CO3: Understand about management and levels
			of management and Importance of
			management in the globalization scenario.
			CO4: Gain the Knowledge about the Motivation
			Theories and importance of motivation.
			CO5: Understand the concepts like Groups,
			Teambuilding, Roles and Morals etc.
12.	2-04R	Semester-II:	After Completion of this course the student
		History of Tamil	would be able to:
		Literature, general	CO1: Understand history and culture of
			medieval
		Composition and	literature
		translation and Non-	CO2: Evaluate the ruling system of
		details	Pallava, Nayakkar and Islaamiya
			pulavargal.
			CO3: know about valiancy, victory, charity of ancient tamil kings
			CO4: apply the Arinjar Annavin
			sirugadai kalainjeeyam stories to their
			lives.
			CO5: Translate English essys to Tamil language.
13.	3-04R	Semester-III:	After Completion of this course the student
		Prose, Poetry, non-	would be able to:
		Detail and Grammar.	CO1: Explore the genre - novel with a
			social perspective
			CO2: Recognize the importance of Thirukkural
			CO2: Recognize the importance of Thirukkural
			CO2: Recognize the importance of Thirukkural and Tiruppaavi among World Literatures. CO3: Understand the philosophy of Manimegalai and jayagandhan.
			CO2: Recognize the importance of Thirukkural and Tiruppaavi among World Literatures. CO3: Understand the philosophy of Manimegalai and jayagandhan. CO4: Gain knowledge on paanjaali
			CO2: Recognize the importance of Thirukkural and Tiruppaavi among World Literatures. CO3: Understand the philosophy of Manimegalai and jayagandhan. CO4: Gain knowledge on paanjaali sabadam sarukkam.
			CO2: Recognize the importance of Thirukkural and Tiruppaavi among World Literatures. CO3: Understand the philosophy of Manimegalai and jayagandhan. CO4: Gain knowledge on paanjaali sabadam sarukkam. CO5: Understand the relationship of teacher
			CO2: Recognize the importance of Thirukkural and Tiruppaavi among World Literatures. CO3: Understand the philosophy of Manimegalai and jayagandhan. CO4: Gain knowledge on paanjaali sabadam sarukkam.

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14.	1-1-107R	Micro Economics (Consumer Behavior)	After Completion of this course the student would be able to: CO1: Evaluate the consequences of economic activities for individual and social welfare. CO2: Understand various Methodologies of studying Economics CO3: Understand and analyze utility analysis and apply the same in his life CO4: Understand about the demand and its responses and how it will be measured CO5: Understand about the consumer behavior.
15.	1-2-107R	Micro-Economics - Production & Price Theories	After Completion of this course the student would be able to: CO1: Gain knowledge regarding production and its different functions. CO2: Acquire knowledge regarding different types of cost and revenue. CO3: Understand and working of different kinds of market structures operating in the world. CO4: Understand how the factor prices determined and it theories, particularly about CO5: Acquire knowledge regarding about the interest and profits.
16.	1-3-107R	Macro Economics – (National Income, Employment and Money)	After Completion of this course the student would be able to: CO1: Understand different concepts of National income and methods to measure national income. CO2: Acquire the knowledge about the classical and Keynes theories of employment. CO3: Understand Keynes theory of consumption function and working of multiplier and accelerate principle.
			CO4: Understand the functions of money, different theories of money.
17.	1-4-107R	Macro Economics (Banking and International Trade)	After Completion of this course the student would be able to: CO1: Gain knowledge regarding macroeconomic concept of Inflation, Deflations and how it can be controlled. Understand the meaning and definitions of trade cycle its phases, consequences and controlling measures. CO2: Acquire knowledge regarding functions and performance of banking sector. CO3: Gain knowledge about the classical and Keynes theories of employment. CO4: Know the particular solutions to the economic functions like Monetary and Fiscal policies. CO5: Understand how international trade has helped countries to acquire goods at cheaper cost and explain it through the various international trade

			theories
18.	1-5-107A	Economic	After Completion of this course the student would
		Development And Indian Economy	be able to: CO1: Demonstrate familiarity with some central themes and issues of economic development. Engage in critical thinking through the Comparative assessment of competing Economic development models and policy frameworks. CO2: Learn how to articulate pragmatic, principles- based policies to enhance economic well-being and promote social justice. CO3: Understand about Demography and its recent trends including latest population policy. CO4: Understand regarding the current structure of Indian economy likes National Income, Poverty, and Unemployment etc CO5: Analyze new economic policies (privatization, liberalization and globalization) in India Understand the role of the Indian economy in the global context.
19.	1-5-107B	Indian And Andhra Pradesh Economy	After Completion of this course the student would be able to: CO1: Acquire knowledge regarding agriculture sector in India, its trends and productivity. Understand about the rural issues like credit, Marking, food problem in India. CO2: Understand industrial sector and its changing role in Indian economy. CO3: Analyze the role of service sector in Indian Economy. CO4: Understand, interpret, compare & contrast, explain the need of planning and know the changes through planning that led to evolution of Indian economy.

			CO5: Understand about Andhra Pradesh Economy and its progress.
20.	1-6-107	Entrepreneurship And Small Business Development	After Completion of this course the student would be able to: CO1: Classify the evolution of Entrepreneurship and gain knowledge on the role of entrepreneur in economic growth and changing approaches in economic scenario for small scale entrepreneurs. CO2: Write down the factors affecting entrepreneurial growth Manage their own/family business in skillful manner with new idea coping with fast changing requirements of the society. CO3: Describe the Entrepreneurship Development Programmes Techniques of business idea generation and business opportunities and preparation of project report are learnt. CO4: Learn the ways entrepreneurial development can be implemented through various agencies like DIC, NSIC, SIDBI, SIDO, IDBI, IFCI. CO5: Understand the preparation Project Techniques of business idea generation and business opportunities.
21.	1-6-107A	Industrial Economics	After Completion of this course the student would be able to: CO1: Analyze the Industry and Economic Development. CO2: Describe and explain the determinants of the size and structure of firms and the implications of the separation of ownership and control. CO3: Find, analyze, understand, and communicate technical and economical terminology of information of industrial firms. CO4: Understand the Globalization and its impact on Indian Economy. CO5: Describe the Industrial Development in India.
22.	1-6-107B	Labor Economics	After Completion of this course the student would be able to: CO1: Evaluate and interpret the labor market policies of governments, unions and other actors in the labor market. CO2: Identify the actions of economic actors within the labor market, and identify various outcomes of the labor market, that are driven by economic incentives. CO3: Analyze labor market quantitative research. CO4: Synthesize information on different actors and outcomes across the various labor market topics. CO5: Analyze labor market issues through the application of economic data and theories.
23.	1-6-107C	Industrial Management	After Completion of this course the student would be able to: CO1: Choose, prepare, interpret and use cost

			estimates as a basis for the different situations in an industrial company.
			CO2: Interpret financial statements and other
			financial reports of industrial companies,
			including the income statement, the balance
			sheet, the cash flow statement and key measures in these.
			CO3: Understand strategic planning,
			management, management control,
			entrepreneurship, organization, production and
			learning work in an industrial company.
			CO4: Analyze the industrial company markets and
			price it's products.
			CO5: Explain how the company deal with it's
			environment.
			HISTORY
24.	_	Ancient Indian History	After Completion of this course the student would
	R	& Culture (From Earliest Times To 600	be able to:
		A.D)	CO1: Understand the Literary & Archaeological Sources; Influence of Geography on History, Unity
		A.D)	in Diversity and also Harrappen Civilization was
			urban Civilization in Indian Continental.
			CO2: Understand the Vedic Civilization was a
			Rural Civilization in Indian Continental.; Jainism
			and Buddhism: Causes, Doctrines, Spread,
			Importance and Impact.
			CO3: Understand how Transition from Territorial
			States to Emergence of Empires Rise of
			Mahajanapadas Persian and Macedonian
			Invasions, Mauryan Empire: Ashoka's Dhamma,
			Art & Architecture, CO4: Understand Conditions during 200 B. C to
			300
			A. D.: Central Asian Contacts - Kushanas. The Age
			of Satavahanas, Sangam Age: The Three Early
			Kingdoms (Chola, Chera& Pandya).
			CO5: Understand in Gupat's Empire not only
			political
			condition consolidated besides cultural growth also occurred.
25.	1-2-110	Early medieval indian	After Completion of this course the student would
25.	1-2-110	history & culture (600	be able to:
		a.d to 1526 a.	CO1: Understand Harsha & His Times:
		D.)	Administration, Religion – Hiuen Tsang -Polity,
			Society, Economy and Culture from 7th to 11th
			Century A. D. under Chalukyas of Badami&
			Eastern Chalukyas of Vengi.
			CO2: Understand Age of later Pallavas during
			7th& 8th Centuries A. D.: Contribution to Cultural
			Development & Art & Architecture; The Chola
			Empire from 9th to 12 Century A. D.: Rise of the Empire, Administration and Cultural Life.
			CO3: Understand under Conditions in India on
			the
			eve of Turkish Invasions; Early Invasions: Traces
			of Arab Invasion, Ghazni&Ghori Delhi Sultanate
			(1206

		1	
26	1 2 110		to 1290 A.D.) under Slave Dyanasty. CO4: Understand Delhi Sultanate (1290 to 1526 A.D.): Khaljis: Expansion & Consolidation, Administrative & Economic Reforms - The Tughlaqs - Decline & Disintegration of the Delhi Sultanate; Administration, Society, Economy, Technology, Religion, Art & Architecture under the Sultanate. CO5: Understand that in Cultural Development in India between 13th& 15th Centuries A. D.: Impact of Islam on Indian Society and Culture - Bhakti and Sufi Movements - Emergence of Composite Culture
26.	1-3-110	Late Medieval & Colonial History of India (1526 to 1857 a. D.)	After Completion of this course the student would be able to: CO1: Understand Emergence of Mughal Empire - Sources, Conditions in India on the eve of Babur's invasion, Brief Summary of Mughal Polity - Sher Shah & Sur Interregnum - Expansion & Consolidation of Mughal Empire - Rise of Marathas & Peshwas. CO2: Understand Administration, Economy, Society and Cultural Developments under the Mughals - Disintegration of Mughal Empire. CO3: Understand India under Colonial Hegemony: Beginning of European Settlements - Anglo-French Struggle - Policies of Expansion - Subsidiary Alliance & Doctrine of Lapse - Consolidation of British Empire in India up to 1857 A. D. CO4: Understand after the expansion Economic Policies of the British (1757-1857): Land Revenue Settlements - Commercialization of Agriculture - Impact of Industrial Revolution on Indian Industry; Administration of the Company - Regulating Charter Acts; Cultural & Social Policies: Humanitarian Measures & Spread of Modern Education. CO5: Understand that Anti-Colonial Upsurge - Peasant & Tribal Revolts - 1857 Revolt - Causes, Nature& Consequences.

27.	1-4-110	Social Reform Movement & Freedom Struggle	After Completion of this course the student would be able to: CO1: Understand that Social, Religious & Self-Respect Movements: Social & Cultural Awakening - Brahma Samaj, Arya Samaj, Theosophical Society, Ramakrishna Mission, Aligarh Movement - Emancipation of Women - Struggle Against Caste: JyotibaPhule, Narayana Guru, Periyar, Dr. B. R. Ambedkar. CO2: Understand that Growth of Nationalism in the 2nd Half of 19th Century - Impact of British Colonial Policies under Viceroys' Rule and the Genesis of Freedom Movement - Birth of Indian National Congress. CO3: Understand that Freedom Struggle from 1885 to 1920: Moderate Phase Partition of Bengal -
28.	1-5-121	Age of Rationalism and Humanism The world between 15th& 18th Centuries	Emergence of Militant Nationalism -Swadeshi & Boycott Movement - Home Rule Movement. CO4: Understand that Freedom Struggle from 1920 to 1947: Gandhiji's Role in the National Movement - Revolutionary Movement - Subhas Chandra Bose. CO5: Understand that Muslim League & the Growth of Communalism - Partition of India - Advent of Freedom - Integration of Princely States into Indian Union - Sardar Vallabhai Patel. After Completion of this course the student would be able to: CO1: Understand that Feudalism - Geographical Discoveries: Causes - Compass & Maps - Portugal Leads and Western World Follows - Consequences; CO2: Understand that The Renaissance Movement: Factors for the Growth of Renaissance - Characteristic Features- Transformation from Medieval to Modern World; Reformation & Counter Reformation Movements: The Background - Protestantism - Spread of the Movement- Counter Reformation- Effects of Reformation. CO3: Understand that Emergence of Nation States: Contributory Factors - England and other Nation States - Impact due to the Emergence of Nation States; Age of Revolutions: The Glorious Revolution (1688) - Origin of Parliament - Constitutional Settlement - Bill of Rights - Results. CO4: Understand that Age of Revolutions: The American Revolution (1776) - Opening of New World - Causes - Course - Declaration of Independence, 1776 - Bill of Rights, 1791 - Significance. CO5: Understand that Age of Revolutions: The French Revolution (1789) - Causes - Teachings of Philosophers - Course of the Revolution - Results.

29.	1-5-122	History & Culture Of Andhra Desa (From 12th To 19th Century A.D.)	After Completion of this course the student would be able to: CO1: Understand that Andhra during 12 th & 13 th Centuries A.D Kakatiyas – Origin & its Antecedents – Administration – Social & Economic Life – Industries & Trade – Promotion of Literature and Culture – Architecture & Sculpture – Decline; The Age of Reddy Kingdoms: Patronage to Literature – Trade & Commerce. CO2: Understand that Andhra between 14th & 16th Centuries A.D Vijayanagara Empire: Polity, Administration, Society & Economy – Sri Krishna Devaraya and his contribution to Andhra Culture – Development of Literature & Architecture – Decline and Downfall. CO3: Understand that Andhra through 16th& 17th Centuries A.D Evolution of Composite Culture – The QutbShahis of Golkonda – Origin & Decline –
			Administration, Society & Economy - Literature & Architecture. CO4: Understand that The 18th& 19th Centuries in Andhra East India Company's Authority over Andhra - Three Carnatic Wars - Occupation of Northern Circars and Ceeded Districts -Early Uprisings - Peasants and Tribal Revolts. CO5: Understand that Impact of Company Rule on Andhra - Administration - Land Revenue Settlements - Society - Education - Religion - Impact of Industrial Revolution on Economy - Peasantry & Famines - Contribution of Sir Thomas Munroe, C. P. Brown & Sir Arthur Cotton - Impact of 1857 Revolt in Andhra.
30.	1-6- 110	History of Modern Europe (from 19th century to 1945 a. D.)	After Completion of this course the student would be able to: CO1: Understand that Industrial Revolution: Origin, Nature and Impact. CO2: Understand that Unification Movements in Italy & Germany and their Impact. CO3: Understand that Communist Revolution in Russia – Causes, Course and Results – Impact on World Order. CO4: Understand that World War I: Age of Rivalry in Europe Between 1870 and 1914 – Results of the War – Paris Peace Conference – League of Nations. CO5: Understand that World War II: Causes, Fascism & Nazism – Results; The United Nations Organization: Structure, Functions and Challenges.

31.	1-6- 110B	Popular Movements in Andhra desa (1848 to 1956 a.d.)	After Completion of this course the student would be able to: CO1: Understand Social & Self Respect Movements: Social Conditions -Kandukuri Veeresalingam, Raghupathi Venkata Rathnam Naidu, Guruzada Apparao, Komarraju Venkata Laxmana Rao; New Literary Movements: Causes - RayaproluSubbarao, ViswanathaSathyanarayana, GurramJashua, Boyi Bheemanna, SriSri - Impact CO2: Understand Freedom Movement in Andhra (1885-1920): Contributory Factors - Vandemataram Movement - Swadeshi & Boycott programs - Glorious Events at Rajahmundry, Kakinada, Kotappakonda & Tenali - Home Rule Movement in Andhra. CO3: Understand Freedom Movement in Andhra (1920-1947): Non-Cooperation Movement - Chirala Perala, Palanadu & Pedanandipadu Activities - Alluri Seetarama Raju &Rampa Revolt (1922-24) - Anti-Simon Commission Movement - Civil Disobedience Movement - Quit India Movement. CO4: Understand Movement for Separate Andhra State (1953): Causes - Andhra Maha Sabha -
			Andhra Provincial Congress Committee – Andhra University – Conflict between Coastal Andhra & Rayalaseema – Sri Bagh Pact – Constitution of Committees & their Contribution – Martyrdom of PottiSriramulu – Formation of separate Andhra State. CO5: Understand Movement for formation of Andhra Pradesh (1956): Visalandhra Mahasabha – Role of Communists – States Reorganization Committee – Gentlemen's Agreement – Formation of Andhra Pradesh.

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32.	1-6-	Contemporary	After Completion of this course the student would be
	110C	History Of Andhra	able to:
		Pradesh (1956-	CO1: Understand Socio-Economic Changes in Andhra
		2014)	Pradesh - River Projects & Infrastructural
			Development - Education & Scientific Progress -
			Regional Politics - Emergence of Telugu Desam
			Party.
			CO2: Understand Growth of Leftist Ideology -
			Marxist & Radical Literature - Naxalbary Movement
			- Communist Activities - Electoral Politics - Present
			Status of Communist Movement
			CO3: Understand Dalit Movement - Understanding
			Un-touchability - Education - Literature - Struggle
			for Identity – Demand for Political Space.
			CO4: Understand Early trends towards Bifurcation:
			Jai Telengana Movement (1969) - Mulki Rules -
			Legal Battle - Jai Andhra Movement (1972) - Six
			Point Formula (1973). CO5: Understand Bifurcation of Andhra Pradesh:
			Power Politics – Economic Discontentment –
			Riparian Disputes - Unemployment -Foundation of
			Telangana Rastra Samiti – Movements for separate
			Telangana & unified Andhra Pradesh - Formation of Telangana
			State (2014).
		D.C.	OLITICAL SCIENCE
22	1-1-		
33.		Basic Concepts of	After Completion of this course the student would be
	111D	Dolitical Colones	able to
	114R	Political Science	able to:
	114R	Political Science	CO1: Analyze what is Politics and explaining the
	114R	Political Science	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science -
	114R	Political Science	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and
	114R	Political Science	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist.
	114R	Political Science	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature,
	114R	Political Science	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-
	114R	Political Science	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories.
	114R	Political Science	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand
	114R	Political Science	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism.
	114R	Political Science	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and
	114R	Political Science	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship.
	114R	Political Science	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship. CO5: Understanding basic concepts of Liberty,
24			CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship. CO5: Understanding basic concepts of Liberty, Equality, Rights, Law and Justice.
34.	1-2-	Political Institutions(CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship. CO5: Understanding basic concepts of Liberty, Equality, Rights, Law and Justice. After Completion of this course the student would be
34.		Political Institutions(Concepts, Theories	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship. CO5: Understanding basic concepts of Liberty, Equality, Rights, Law and Justice. After Completion of this course the student would be able to:
34.	1-2-	Political Institutions(CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship. CO5: Understanding basic concepts of Liberty, Equality, Rights, Law and Justice. After Completion of this course the student would be able to: CO1: Gain knowledge on Constitutional law, theory
34.	1-2-	Political Institutions(Concepts, Theories	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship. CO5: Understanding basic concepts of Liberty, Equality, Rights, Law and Justice. After Completion of this course the student would be able to: CO1: Gain knowledge on Constitutional law, theory of separation of powers.
34.	1-2-	Political Institutions(Concepts, Theories	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship. CO5: Understanding basic concepts of Liberty, Equality, Rights, Law and Justice. After Completion of this course the student would be able to: CO1: Gain knowledge on Constitutional law, theory of separation of powers. CO2: Understand the structural form of modern
34.	1-2-	Political Institutions(Concepts, Theories	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship. CO5: Understanding basic concepts of Liberty, Equality, Rights, Law and Justice. After Completion of this course the student would be able to: CO1: Gain knowledge on Constitutional law, theory of separation of powers. CO2: Understand the structural form of modern state, parliament and presidential forms.
34.	1-2-	Political Institutions(Concepts, Theories	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship. CO5: Understanding basic concepts of Liberty, Equality, Rights, Law and Justice. After Completion of this course the student would be able to: CO1: Gain knowledge on Constitutional law, theory of separation of powers. CO2: Understand the structural form of modern state, parliament and presidential forms. CO3: Understand the features of federal and unitary
34.	1-2-	Political Institutions(Concepts, Theories	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship. CO5: Understanding basic concepts of Liberty, Equality, Rights, Law and Justice. After Completion of this course the student would be able to: CO1: Gain knowledge on Constitutional law, theory of separation of powers. CO2: Understand the structural form of modern state, parliament and presidential forms. CO3: Understand the features of federal and unitary forms of government.
34.	1-2-	Political Institutions(Concepts, Theories	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship. CO5: Understanding basic concepts of Liberty, Equality, Rights, Law and Justice. After Completion of this course the student would be able to: CO1: Gain knowledge on Constitutional law, theory of separation of powers. CO2: Understand the structural form of modern state, parliament and presidential forms. CO3: Understand the features of federal and unitary forms of government. CO4: Gain knowledge on democracy, models of
34.	1-2-	Political Institutions(Concepts, Theories	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship. CO5: Understanding basic concepts of Liberty, Equality, Rights, Law and Justice. After Completion of this course the student would be able to: CO1: Gain knowledge on Constitutional law, theory of separation of powers. CO2: Understand the structural form of modern state, parliament and presidential forms. CO3: Understand the features of federal and unitary forms of government. CO4: Gain knowledge on democracy, models of democracy.
34.	1-2-	Political Institutions(Concepts, Theories	CO1: Analyze what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioral, Post Behavioral, and Feminist. CO2: Assessing the theories of State (Origin, Nature, Functions): Contract, Idealist, Liberal and Neo-Liberal Theories. CO3: Distinguish nationality, nation and understand the Varieties of nationalism. CO4: Understand the civil and Social rights and distinguish universal and differential citizenship. CO5: Understanding basic concepts of Liberty, Equality, Rights, Law and Justice. After Completion of this course the student would be able to: CO1: Gain knowledge on Constitutional law, theory of separation of powers. CO2: Understand the structural form of modern state, parliament and presidential forms. CO3: Understand the features of federal and unitary forms of government. CO4: Gain knowledge on democracy, models of

35.		Indian Constitution	After Completion of this course the student would be able to: CO1: Understand the ideological legacy of the Indian national movement on the constituent assembly. CO2: Understand the emergence, evolution, structure and composition of Indian Constitution. CO3: Know and understand the fundamental rights and directive principles and analyse the differences between them. CO4: Gain knowledge on unitary and federal features in the Indian constitution. CO5: Know the values of the Indian constitution and understand the nature and role of higher judiciary in India.
36.	1-4-114	Indian Political Process	After Completion of this course the student would be able to: CO1: Understand the Indian Political Process and evaluation of party system in India. CO2: Analyze the electoral process and voting behavior in India. CO3: Gain knowledge on powers, functions and role of election commission in Indian political system. CO4: Describe various challenges to Indian democracy. CO5: Understand the need for electoral reforms and women representation in parliament.
37.	1-5-129	Indian Political Thought	After Completion of this course the student would be able to: CO1: Understand the traditions of ancient Indian political thought revealed by great thinkers MANU and KAUTILYA CO2: Know the great works of RAMMOHAN ROY on religious and social reform. CO3: Analyze the drain theory and poverty theory of Dadabai Naoroji. CO4: Understand and compare the Hindu culture nationalism and Islamic Communitarian Nationalism CO5: Understand the democratic Egatitarianism of Gandhi, Jawaharlal Nehru, Dr.B.R .Ambedkar and M.N.Roy.
38.	1-5-130	Western Political Thought	After Completion of this course the student would be able to: CO1: Understand and acquire the knowledge about classical western political thoughts of plato and aristotile. CO2: Know the early medieval to the beginning of modern thought revealed by ST.Augustine and Machiavelli. CO3: Know the liberal thoughts of Thomas Hobbes, John Locke and Rousseau. CO4: Know the liberal democratic thought of Jeremy Bentham and john Stuart mill. CO5: Understand the philosophical idealism and its critique revealed by Hegel and Karl Marx.

39.	1-6-114	Principles of Public Administration	After Completion of this course the student would be able to: CO1: Understand the nature and scope of public administration. CO2: Differentiate administration theories like-Classical theory, Human relations theory and rational decision making theory. CO3: Analyze the importance of co-ordination and leadership in an organization. CO4: Understand the principles of organization, structure and its hierarchy. CO5: Gain knowledge on theories of motivation.
40.	1-6- 114A	International Relations	After Completion of this course the student would be able to: CO1: Gain Knowledge on basic concepts of International relations. CO2: Understand approaches-Idealism, classical realism and modern realism of International relations. CO3: Analyze the Causes and effects of first and second world war. CO4: Gain knowledge on Origins of First Cold war, new cold war and the end of cold war. CO5: Understand the structure, functions and role of UNO in the protection of international peace.
41.	1-6- 114B	Indian Foreign Policy	After Completion of this course the student would be able to: CO1: Understand determinants, Continuity and change in Indian foreign policy. CO2: Gain knowledge on Evolutionary growth of Non-Aligned movement. CO3: Understand the India's relations with USA and Russia. CO4: Analyze India's' role in south Asian Association of regional co-operation. CO5: Gain knowledge of trends in India's Foreign Policy.
42.	1-6- 114C	Contemporary Global Issues	After Completion of this course the student would be able to: CO1: Understand meaning, nature, scope and types of globalization. CO2: analyze the role of anchors of global political economy. CO3: Understand the Nation state in context of Globalization and its consequences. CO4: Analyze the Contemporary globalissues-Ecological and terrorism issues. CO5: Gain knowledge on world trade organization and Functionality of BRICS.

40	4.4	Differential	After Consulation of this consulation student would be
43.	1-1- 112R	Differential	After Completion of this course the student would be
	112K	Equations	able to:
			CO1: Solve exact and linear first order and first
			degree differential equations with and without initial
			conditions.
			CO2: Determine the orthogonal trajectories of the
			given family of curves with one parameter.
			CO3: Solve differential equations of first order but
			not first degree using the methods: solvable for p,
			solvable for x, solvable for y and Clairaut's equation.
			CO4: Solve higher order linear differential equations
			with constant coefficients.
			CO5: Solve Cauchy – Euler equations by reducing to
			linear equation with constant coefficient.
44.	1-2-112	Solid Geometry	
74.	1-2-112	Solid Geolileti y	After Completion of this course the student would be able to:
			CO1: Identify geometric shapes and prove
			elementary geometric theorems.
			CO2: Demonstrate knowledge and understanding of
			plane and solid geometry.
			CO3: Use geometrical skills to solve simple real world
			problems.
			CO4: Develop technical skills in sketching and
			drawing.
			CO5: State and find surface areas of prisms,
			pyramids, cylinders, cones and spheres.
45.	1-3-112	Abstract Algebra	After Completion of this course the student would be
			able to:
			CO1: Trained in the Basic concepts of Groups and
			Subgroups.
			CO2: Understand the notion of normal subgroup and
			determine whether a given subgroup is normal.
			CO3: Understand the notions of homomorphism and
			isomorphism in groups.
			CO4: Decide whether a given group is cyclic, and for
			a finite cyclic group, find a generator for a subgroup
			of a given order.
46.	1-4-112	Real Analysis	After Completion of this course the student would be
70.	2 - 112	iteal Allarysis	able to:
			CO1: Understand the fundamental properties of the real numbers that lead to the formal development of
			•
			real analysis.
			CO2: Apply some simple techniques for testing the
			convergence of sequences and series.
			CO3: Determine the continuity and differentiability
			of functions defined on subsets of the real line.
			CO4: Apply the Mean Value Theorems to problems in
			the context of real analysis.
			CO5: Write the Taylor's series expansion of a
			function at a given point.
			CO6: Learn how to express a definite integral as
			limit of Riemann sum.

47.	Calculus able to: CO1: Write definitions CO2: Use construct from non-e CO3: Valid proof in rin CO4: Use and inde investigate proofs; CO5: Write grammatic manner. CO6: Find and Identi CO7: Evaluation fields. CO8: Use surface in		nitions of objects in ring theory; Let use mathematical definitions to identify and struct examples and to distinguish examples in non-examples; Let validate and critically assess a mathematical of in ring theory; Let use a combination of theoretical knowledge independent mathematical thinking to estigate questions in ring theory and to construct ofs; Let write about ring theory in a coherent, mmatically correct and technically accurate oner. Let ring the divergence and curl of a vector field identify conservative vector fields. Let revaluate line integrals of curves and vector		
48.	48. 1-5-126 Linear Algebra		able CO1 defi CO2 cons from CO3 proc CO4 and inverse proc CO5 grain	: Write precise and accurate mathematical nitions of objects in ring theory; : Use mathematical definitions to identify and struct examples and to distinguish examples n non-examples; : Validate and critically assess a mathematical of in ring theory; : Use a combination of theoretical knowledge independent mathematical thinking to estigate questions in ring theory and to construct	
					CO6: Find the divergence and curl of a vector field. CO7: Identify conservative vector fields. CO8: Evaluate line integrals of curves and vector fields. CO9: Use Gauss's divergence theorem to evaluate surface integrals. CO10: Use Green's theorem to evaluate line integrals.

49.	1-6-112	Laplace Transforms	After Completion of this course the student would be able to: CO1: Find the Laplace transform of a function from the definition of a Laplace transform. CO2: Find the Laplace transform of the exponential, cosine and sine functions. CO3: Use the appropriate shift theorems in finding Laplace Transforms. CO4: Find the Laplace transform of derivatives and integrals. CO5: Find Laplace Transforms of some special functions. CO6: Find the inverse Laplace transform of a function. CO7: Use the Convolution theorem to find the inverse Laplace transform.
			PHYSICS
50.	3-1-116	Mechanics & Properties Of Matter	After Completion of this course the student would be able to: CO1: Know the concepts of Scalar and vector fields, Curl, Divergence, gradient, Line, surface and volume integrals. Also to deduce Stokes, Gauss theorems and their applications. CO2: Gain knowledge on motion of variable mass system, Collisions in two and three dimensions, to solve problems on Rutherford scattering. CO3: Understand the concepts of rotational kinematics of rigid body, Moment of inertia of tensor, Euler equations, Precision of top, equinoxes and Gyroscope. Also to learn about types of beams, load analysis in various configurations and mechanics of cantelever. CO4: Gain understanding on conservative forces, equation of motion under central forces, Keppler's laws and Coriolis force. CO5: Learn about Galelian-Lorentz frames of references, Lorentz transformations, Michelson-Morley experiment, Postulates of special theory of relativity, length contraction, time delation, addition of masses, mass energy relation and 4 vector notations.
51.	3-1-116	Waves & Oscillations	After Completion of this course the student would be able to: CO1: Learn about physical properties of Simple

Harmonic Motion (SHM), Torsional pendulum, Compound pendulum and their applications, Lissajous figures.

CO2: Solve the differential equations for forced harmonic oscillator and damped harmonic oscillator and compare the results with simple harmonic oscillator.

CO3: Know about Fourier theorem and evaluation of the Fourier coefficients, To analyse periodic wave functions-square wave, triangular wave, saw tooth wave, To solve simple problems on evolution of Fourier coefficients.

CO4: Deduce wave equation for vibrating strings and study various parameters like modes, overtones, energy transport, transverse impedance etc. Also to learn Longitudinal vibrations in bars-wave equation and its general solution, and its Special cases (i) bar fixed at both ends (ii) bar fixed at the midpoint (iii) bar fixed at one end.

CO5: Learn about basics of ultrasonic's, production and detection of ultrasonic's, measurement of

frequency and velocity of ultrasonic and the applications of ultrasonic's.

52.	3-4-116	Ways Ontice	After Completion of this course the student
52.	3-4-116	Wave Optics	After Completion of this course the student
			would be able to:
			CO1: Learn about various monochromatic
			aberrations (Spherical, Coma, Astigmatism,
			Curvature of the field and Distortion) and
			chromatic aberrations and their removal
			techniques.
			CO2: Understand the principle of superposition,
			coherence, Interference by division of wave-
			front and amplitude, Fresnel's bi-prism, thin
			film interference, wedge shaped film
			interference, Also to learn about Newton's rings
			Michelson's interferometer and their
			applications to sodium D lines and thickness of
			thin film.
			CO3: Learn about Fresnel and Fraunhoffer
			diffraction, Fraunhoffer diffrraction due to
			single slit, double slit, N-slit, grating. Also to
			learn about Fresnel's half period zones, zone
			plate, phase reversal zone plates, comparison
			of zone plate & convex lens, interference &
			diffraction.
			CO4: Learn about methods of polarization,
			Brewster's law, Malus law, Nicol prism, Quarter
			wave plate, half wave plate, babinet's
			• '
			compensator and optical activity analysis by
			Laurent's half shade polarimeter.
			CO5: Learn about principles of LASER, Einstein
			coefficients, He-Ne laser, Ruby laser,
			applications of laser, Principles of optical
			fiber communication,
			classification of optical fibers, applications of
			optical fibers, principles of holography,
			limitations of Gabor's
			hologram and applications of holography.

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53.	3-4-116	Thermodynamics & Radiation Physics	After Completion of this course the student would be able to:
		,	CO1: Learn about Maxwell's distribution law,
			Tooth wheel experiment, and viscosity of gases,
			thermal conductivity and diffusion of gases.
			CO2: Learn about reversible, irreversible
			processes, Carnot's theorem, Carnot's engine,
			Kelvin's scale, entropy, disorder, T-S diagram
			and other applications of entropy.
			CO3: Understand thermodynamic potentials,
			Maxwell equations, Clausius-Clayperon's
			equation, to know Cp, Cv, Cp-Cv for perfect gas,
			J-K effect, J-K coefficient for perfect and Vander
			wall gases.
			CO4: Learn about Joul Thomson cooling,
			liquefaction of helium, Adiabatic
			demagnetization, effects of CFC gases, and
			applications of low temperature physics.
			CO5: Learn about Wein's law, Rayleigh-jeans
			law, Planks theory of radiation, various types of
			pyrometers, and how to determination of
			solar
			constant and effective temperature of
			temperature.
54.	3-5-127	Electricity,	After Completion of this course the student
34.	3 3 127	Magnetism &	would be able to:
		Electronics	CO1: Understand the concepts of electric field
		Licetronics	and eclectic potential due to point charge,
			uniform solid sphere, using these concepts will
			enhance the student towards the problems
			come across in the real life. They should also
			learn Electric dipole moment and molecular
			polarizability- Electric displacement D, electric
			polarization P – relation between D, E and P-
			Dielectric constant and susceptibility. Boundary
			conditions at the dielectric surface.
			CO2: Learn about Biot-Savart's law, explanation
			and calculation of B due to long straight wire, a
			circular current loop and solenoid - Lorentz
			force - Hall effect
			- determination of Hall coefficient and
			applications. Also learn Faraday's law-Lenz's
			law- Self and mutual inductance, coefficient of
			coupling, calculation of self inductance of a long
			solenoid, energy stored in magnetic field.
			Transformer - energy losses - efficiency.
			CO3: Learn about basics of varying of alternate
			Current - Relation between current and voltage
			in LR and CR circuits, vector diagrams, LCR
			series and parallel resonant circuit, Also learn
			Idea of displacement current - Maxwell's
			equations, To derive Maxwell's wave equation,
			Transverse nature of electromagnetic waves,
			Poynting theorem, and production of
			electromagnetic waves.
			CO4: Learn about Basics of electronics - PN
			junction diode, Zener diode, Tunnel diode, I-V
		l .	Juniculon diode, Zener diode, Tunner diode, 1-V

	characteristics,
	PNP and NPN transistors, CB, CE and CC
	configurations – Relation between, and - transistor (CE) characteristics -to determine hybrid parameters of Transistor. CO5: Know about Digital Electronics Concepts, Number systems - Conversion of binary to decimal system and vice versa. Binary addition and subtraction (1's and 2's complement methods).Laws of Boolean algebra - to deduce De Morgan's laws- Also to learn about Basic logic gates, NAND and NOR as universal gates,
	exclusive-OR gate, Half adder and Full adder, Parallel adder circuits.

			CO1: Learn about the concepts of atomic models and their drawbacks. Also to learn about Vector atom model, this model gives the existence of spin of an electron. Study of fine spectra and Zeeman effect on various elements. Also to learn Raman effect and its applications. CO2: Learn about basics of Matter waves, de Broglie's hypothesis - wavelength of matter waves, Properties of matter waves - Davisson and Germer experiment - Phase and group velocities. Also to learn about Heisenberg's uncertainty principle for position and momentum, & energy and time. CO3: Learn about Basic postulates of quantum mechanics-Schrodinger time independent and time dependent wave equations, Physical interpretation of wave function. Application of Schrodinger wave equation to particle in one dimensional infinite box. CO4: Learn about Nuclear Physics Basic ideas of nucleus -size, mass, charge density (matter energy), binding energy, angular momentum, parity, magnetic moment, electric moments. Liquid drop model and Shell model (qualitative aspects only) - Magic numbers. They should also learn about Alpha decay: basics of α-decay processes. Theory of α-decay, Gamow's theory, Geiger Nuttal law.β-decay, Energy kinematics for β-decay, positron emission, electron capture, neutrino hypothesis. CO5: Distinguish Amorphous and crystalline materials, to learn unit cell, Miller indices, reciprocal lattice, types of lattices, diffraction of X-rays by crystals, Bragg's law, experimental techniques, Laue's method and powder diffraction method. Also to learn about Superconductivity - experimental facts, critical
56.	3-6-113	Materials Science	temperature - critical field - Meissner effect - Isotope effect - Type I and type II superconductors - BCS theory (elementary ideas only) - applications of superconductors After Completion of this course the student
			temperature - critical field - Meissner effect - Isotope effect - Type I and type II superconductors - BCS theory (elementary ideas
			temperature - critical field - Meissner effect - Isotope effect - Type I and type II superconductors - BCS theory (elementary
			temperature - critical field - Meissner effect - Isotope effect - Type I and type II
			temperature - critical field - Meissner effect -
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55 .	3-5-128	Modern Physics	After Completion of this course the student would be able to:

able to: CO1: Learn about Materials and Crvstal Bonding: Materials, Classification, Crystalline, Amorphous, Glasses; Metals, Semiconductors, Polymers, Ceramics, Plastics, Bio-materials, Composites, Bulk and nanomaterials. Different types of chemical bonds -To study Binding energy of a crystal. CO2: Learn about Defects and Diffusion in Materials, Types of defects - Point defects- Line defects-Surface defects-Volume defects-**Production** and removal of defects-Deformation-irradiation- quenching- annealingrecovery. To know Diffusion in solids to derive Fick's laws of diffusion. CO3: Study about Mechanical Behavior of Materials, Different mechanical properties of engineering material, to know about the concept of Cree, Fracture and Factors affecting mechanical properties of a material, Heat treatment. Also to know about behavior of metals under Cold and hot working, Types of mechanical tests, Metal forming process, Deformation of metals. CO4: Learn about Magnetic Materials, Dia-, Para-, Ferri- and Ferromagnetic materials, to study Classical Langevin theory of dia magnetism, Quantum mechanical treatment of paramagnetism, Weiss's theory ferromagnetism, **Ferromagnetic** domains. Discussion of B-H Curve, Hysteresis and energy Loss. CO5: Learn about basics of Dielectric Materials, Dielectric constant, dielectric strength and dielectric loss, polarizability, mechanism of polarization, factors affecting polarization, polarization curve and hysteresis loop, types of dielectric materials, also to learn about ferroelectric, piezoelectric and piezoelectric materials. **CHEMISTRY 57.** 3-1-106R **Inorganic & organic** After Completion of this course the student Chemistry would be able to: CO1: **Understand** the basis of general characteristics of group 13 to group 17 elements. **CO2:** Know the chemistry of some important components of Boron, carbon, silicon etc. CO3: Identify the reason for the aromaticity of various organic compounds. CO4: Understand the importance of structural theory in the organic chemistry which provides the basic knowledge for the basic knowledge for the students that helps in their further studies.

58.	3-2-106	Physical and General	After Completion of this course the student
		chemistry	would be able to:
			CO1: Learn the concept like deviation from ideal
			gas equation vanderwaal
			equation, freundlisch&
			Langmuil adsorption isotherms
			CO2: Understand Liquid crystals and their applications
			CO3: Knowledge on symmetry in crystals,
			colloids, Emulsions
			CO4: Understand the spatial arrangement of
			atoms that determine the structure of a
			compound which is a fundamental of all
			the concepts of organic
			chemistry with the help of steren chemistry
59.	3-3-106	Inorganic & Organic	After Completion of this course the student
		chemistry	would be able to:
			CO1: Study d blocks elements which are useful in determination of colored complex formation
			in Dye industry and formation of alloys.
			CO2: Learn metallic bonds, metal carbonyls
			and their stability and have a clear picture of
			alcohols, aldhehydes and ketons.
			CO3: Gain the knowledge of conductors,
			insulators and semiconductors
			CO4: Understand Various theories of bonding in
			metals is very useful in gaining knowledge about thermal and electrical conductance of
			metals.
60.	3-4-106	Spectroscopy and	After Completion of this course the student
60.	3-4-100	Spectroscopy and physical chemistry	would be able to:
		physical chemistry	CO1: Know about spectroscope,
			electromagnetic spectrum, IR spectroscopy and
			NMR Spectroscopy.
			CO2: Understand Conductance
			equivalent conductance & transport
			number will be enlightened. CO3: Gain command on Dilute solutions, elevation of
			B.P and depression of freezing point,
			Osmotic pressure.
			CO4: Understand Phase rule, Components
			of
			Degrees of freedom, Eutectic point, Nacl system,
<u> </u>	<u> </u>		Pb- Ag system and freezing mixtures.
61.	3-5-107	Inorganic, Organic &	After Completion of this course the student
		Physical chemistry	would be able to:
			CO1: Analyze Co-ordination compounds and their role in plants and animals', interaction of
			transition metal ions with biological molecules
			provides one of the mole fascinating areas of
			coordination chemistry. CO2: Gain Knowledge
			on first and second law of Thermodynamics.
			CO3: Undestand Nitro hydro carbons and
			their reactions.
			CO4: Gain knowledge of preparation &
			properties of Aliphatic & Aromatic amines.

62.	3-5-108	Inorganic, Organic and Physical chemistry	After Completion of this course the student would be able to: CO1: Understand molecular collision theory, Order and molecularity. CO2: Gain knowledge on Acquaint Photochemical reactions, luminescence and phosphorescence.
			CO3: Analyze the interaction of different carbohydrates and preparation of proteins. CO4: Gain knowledge Heterocyclic compounds.
			Their preparation & properties.
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63.	3-1-103R	Microbial diversity, Algae and Fungi	After Completion of this course the student would be able to: CO1: Understand the origin of Life and the diversity among Micro organisms CO2: Understand the diversity among algae. CO3: Understand the life cycle pattern of Algae and the useful and harmful activities of Algae CO4: Understand the diversity of Fungae and Economic importance of Fungae and Morphology of Lichens.
64.	3-2-103R	Diversity of Archegoniate and plant Anatomy	After Completion of this course the student would be able to: CO1: Understand the morphological diversity of Bryophytes, Pteridophytes and Gymnosperms. CO2: Understand the types of Plant tissues, tissue systems, root, stem, leaf anatomy. CO3: Understand the properties of Timber.
65.	3-3-103	Plant Taxonomy and Embryology	After Completion of this course the student would be able to: CO1: Understand the habit of angiosperm plant body. CO2: Know the vegetable and floral characters of the plant body. CO3: Understand the basic Taxonomy and classifications. CO4: Understand the Embryogenesis in plants.
66.	3-4-103	Plant Physiology and Metabolism	After Completion of this course the student would be able to: CO1: Understand the Water relations in Plants. CO2: Concepts of enzyme activity and enzyme inhibition and Controlling factors. CO3: Understand the Photosynthesis, Respiration, lipid metabolism in plants. CO4: Understand the plant movements, hormones in plants. CO5: Understand the flowering mechanism.

67.	3-5-105	Cell Biology, genetics and plant breeding	After Completion of this course the student would be able to: CO1: Understand the Eukaryotic cell, cell divisions, cell membrane, cell wall, organ cells. CO2: understand the Mendelian genetics. CO3: understand the phenomenon of dominance, laws of segregation, independent assortment of genes and gene interactions. CO4: Understand the plant breeding techniques.
68.	3-5-106	Plant Ecology and Phytogeography	After Completion of this course the student would be able to:
			CO1: understand the Eco system; plant Communities, Ecological adaptations in plants. CO2: Understand the phytogeographical regions of india. CO3: Understand the value of Biodiversity, loss of Biodiversity, and conversation of Biodiversity.
69.	3-6-103	Nursery, Gardening and Floriculture	After Completion of this course the student would be able to: CO1: Understand the Infrastructure of Nursery, Nursery management, routine garden Operations. CO2: understand the gardening, different types of gardening, landscape, home gardening, computer applications in landscaping, landscaping in highways and educational Industries. CO3: Understand the propagation methods. CO4: Understand the floriculture, indoor gardening, bonsai.
70.	3-6-103A	Plant diversity and human welfare	After Completion of this course the student would be able to: CO1: Understand the plant diversity, agro biodiversity. CO2: Understand the value of biodiversity, loss of biodiversity, conservation of biodiversity. CO3: Understand the contemporary practices in resource management, soil and liquid waste management. CO4: Understand the role of plants in relation to human welfare.
71.	3-6-103B	Ethno botany and medicinal botany	After Completion of this course the student would be able to: CO1: Understand the ethno botany as an inter disciplinary science, major and minor ethnic groups of India. CO2: Understand the role of ethno botany in modern medicine. CO3: Understand the ethno botany as a tool to protect interests of ethnic groups. CO4: Understand the ayurveda, siddha, unani. CO5: Study the conservation of endangered medicinal plants.

72.	3-6-103C	Pharmacognosy and phyto chemistry	After Completion of this course the student would be able to: CO1: Understand the chemical, pharmalogical, drug evaluation methods. CO2: Understand the organoleptic and microscopic studies of medicinal plants. CO3: Understand the secondary metabolities. CO4: Understand the biosynthesis and sources of drugs. CO5: Understand the enzymes, proteins and amino acids as drugs.
			ZOOLOGY
73.	3-1-118	Animal diversity of non-chordates	After Completion of this course the student would be able to: CO1: Identify and understand the general characteristics of protozoa, porifera and their morphology. CO2: Differentiate the general characteristics and classification of coelenterates and platyhelminth organisms. Understand the phenomena of polymorphism and life cycle of fasciola. CO3: Classify phylums like nematyhelminthes, annelida and arthropoda. Appreciate the digestive system of leech and appendages of prawn understand and apply the vermiculture process. Discuss the relationship of peripatus with annelids and arthropods as connecting link. CO4: Identify the given molluscan animal with respect to its economic importance. Appreciate and understand the process of torsion. CO5: Discuss the general characters of echinodermata and hemichordate. Understand the water vascular system. Describe various invertebrate larval forms.

74.	3-2-119	Animal disconsiturat	After Completion of this serves the student
74.	3-2-119	Animal diversity of chordates	After Completion of this course the student would be able to:
		chordates	CO1: identify the characters of chordates.
			Classify up to the classes describe and discuss
			the morphology and life history of
			branchiostoma - appreciate the mechanism
			of retrogressive metamorphosis.
			CO2: Recall The Concepts of Protochordates.
			Compare The General Characters Of
			Cyclostomes and Pisces. Understand The
			Various Physiological Processses Of Scoliodon. CO3: Differentiate the general characters of
			amphibians and reptiles. Explain the
			morphology and anatomy of rana and colotes.
			CO4: To create interest and appreciation on
			migration of fishe and birds to challenge he
			seasonal changes. Describe the morphology of
			Columbalivia know the value of archaeopteryx.
			CO5: Understand the mammalian taxonomy and dentition in mammal.
			CO6: Identify and analyze the characteristics
			and
			fauna of oriental region. Australian region and
			ethopian region.
75.	3-3-118	Cytology, Genetics,	After Completion of this course the student
		evolution	would be able to:
			CO1: Understand the structural and functional
			differences between prokaryotes and eukaryotes. Develop the skill of drawing
			eukaryotic cell and prokaryotic cell. gain
			knowledge about viruses and
			virioids.
			CO2: Describe the structures of membranous
			cell organelles and understand the functions of
			various cell organelles and their importance in physiology.
			CO3: Explain the importance of unifying
			concepts in biology including cell theory, unit
			membrane concept and fluid mosaic model.
			CO4: Evaluate the development of special
			chromosomes to meet the biological &
			physiological demands of organisms.
			CO5: Recalls, recognizes the laws of heredity, crossing over, sex determination and sex linked
			inheritance.
			CO6: Understand and appreciate the value of
			genes involved in inheritance ,dominance and
			multiple alleles and genetic disorders
			understand the role and significance of
			chromosomes in sex determination. CO7: Gain
			broad understanding of the organic theory of
			evolution explains hardy weinberg law, variations, mutations, and speciation.
			CO8: Discuss the method of natural selection
			and know how natural selection ultimately
			underpins all
			biological process that leads to evolution f

			new organisms (biological diversity)
76.	3-4-118	Embryology, Ecology And Animal Behavior	After Completion of this course the student would be able to: CO1: Identify the different parts of digestive system. Describe the structure and functions of various parts of digestive system learn the physiology of digestion. CO2: Describe the structure of lungs discuss add explains the mechanism and chemistry of transport of gases in human respiration at cellular level. Understand the urine formation mechanism. CO3: Gain knowledge on nervous system and transmission of nerve impulse analyze synaptic transmission and neurotransmitters. Relate the structure of muscle to muscle contraction. Appraise the important uses of endocrine glands and their hormones in maintaining physiological harmony among animals. CO4: Understanding of ecological relationship between organisms and their environment examinee and summarize central ideas under planning the ecology of ecosystems and ecological succession. Distinguish between symbiosis and mutualism. CO5: Gain knowledge on different types of animal behavior understands the taxes and reflexes reflex arc mechanism learn the classical conditioning & instrumental learning. Understand and analyze biological clocks & circadian rhythms.
77.	3-5-131	Animal biotechnology	After Completion of this course the student would be able to: CO1: Provide scientific and technical knowledge by

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70	2.5 422		using the recombinant DNA technology methods. CO2: Gain the knowledge of PCR and DNA sequencing in recombinant DNA technology and its applications in human welfare. CO3: Examine the animal cell culture techniques explain organ and system cell culture. Know the value of hybridoma technology. CO4: Know the need of reproductive technologies & transgenic animals in the society and application of these techniques in producing transgenic sheep's and fishes. CO5: Understand and learn the importance of animal biotechnology in the field of industrial fermentation, agriculture and aquaculture. Know the method and uses of DNA finger printing.		
78.	3-5-132	Animal Husbandry	After Completion of this course the student would be able to: CO1: Gain the knowledge and importance fo different animals in human welfare. CO2: Understand the management of different types of chicks used in poultry. Disease control, nutritional requirements for different stages of hens. CO3: Get the broad knowledge about hatchery design technology, egg testing methods and maintenance. CO4: Evaluate the procedures of breeding in cattle and buffaloes. CO5: Understand the principles of care management in animal husbandry calf, bull, bullocks.		
79.	3-6-114A	Immunology	After Completion of this course the student would be able to: CO1: Know the basic concepts in immunology compare and contrast innate and adaptive immunity. Understand cells and organs of immune system. CO2: Discuss the basic properties of antigens, band T cell epitopes & happens. Study and organise the factors influencing immunogecity. CO3: Develop the skill of drawing antibody structure. Classify antibodies understand the functions of monoclonal antibodies & major histocompatibility complexes. CO4: Classify and describe various types of hyper- sensitivities gain knowledge on vaccines and learn types of vaccines.		
	Computer Science				

80.	3-1-108R	Computer	After Completion of this course the student
80.	3-1-100K	Fundamentals and	would be able to:
		Programming in C	CO1: Understanding the concept of input and
			output devices of Computers and how it works
			and recognize the basic terminology used in
			computer programming.
			CO2: Write, compile and debug programs
			in C
			language and use different data types for
			writing the programs.
			CO3: Design programs connecting
			decision structures, loops and
			functions.
			CO4: Explain the difference between call by value and call by address.
			CO5: Understand the dynamic behavior of
			memory by the use of pointers.
			CO6: Use different data structures and
			create /
			manipulate basic data files and
			developing applications for real
			world problems.
81.	3-2-109	Object Oriented	After Completion of this course the student
		Programming Using	would be able to
		C++	CO1: Describe the procedural and object
			oriented paradigm with concepts of streams,
			classes, functions, data and objects. CO2: Understand dynamic memory
			CO2: Understand dynamic memory management techniques using pointers,
			constructor
			s, destructors, etc
			CO3: Describe the concept of function
			overloading, operator overloading, virtual
			functions and polymorphism.
			CO4: Classify inheritance with the
			understanding of early and late binding, usage
			of exception handling, generic programming.
			CO5: Demonstrate the use of various
			OOPs concepts with the help of programs.
82.	3-3-108	Object Oriented	After Completion of this course the student
<u> </u>	3 2 200	Programming Using	would be able to:
		Java	CO1: Understand the use of OOPs concepts.
			CO2: Apply OOPs concepts to solve real
			world problems
			CO3: Understand the use of abstraction,
			Packages and Interface in java.
			CO4: Develop Programs for exception
			handling, multithreaded applications with
			synchronization. CO5: Able to design GUI based applications
			and develops applets for web applications.
			and develops applied for web applications.

83.	3-4-108	Data Structures	After Completion of this course the student would be able to: CO1: Describe how arrays, records, linked structures, stacks, queues, trees, and graphs are represented in memory and used by algorithms. CO2: Apply for arrays, records, linked structures, stacks, queues, trees, and graphs in developing applications. CO3: Compare alternative implementations of data structures with respect to performance and benefits of dynamic and static data structures implementations. CO4: understand the concept of recursion, and describe how it can be implemented using a stack.
			CO5: calculate computational efficiency of the principal algorithms for sorting, searching, and hashing.
84.	3-5-111	Database Management Systems	After completing this course satisfactorily, a student will be able to: CO1: Understand the fundamental elements of relational database management systems. CO2: Gain knowledge concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL. CO3: Design ER-models to represent simple database application scenarios. CO4: Convert the ER-model to relational tables, populate relational database and formulate SQL queries on data. CO5: apply normalization in database design.
85.	3-5-112	Software Engineering	After completing this course satisfactorily, a student will be able to: CO1: Gain knowledge on software engineering principles and techniques. CO2: Develop, maintain and evaluate largescale software systems. CO3: Produce efficient, reliable, robust and cost-effective software solutions. CO4: Ability to work as an effective member or leader of software engineering teams. C5: Understand and meet ethical standards and legal responsibilities.

After completing this course satisfactorily, a student will be able to: CO1: Independently understand basic computer network technology. CO2: Identify the different types of network topologies and protocols. CO3: Explain the types of transmission media with real time applications CO4: Gain knowledge on the functions of all layers and their protocols. CO5: Understand the routing protocols and analyze how to assign the IP addresses for the given network. After completing this course satisfactorily, a student will be able to: CO1: Compare the strengths and limitations of cloud computing. CO2: Identify the architecture, infrastructure and delivery models of cloud computing. CO3: Apply suitable virtualization concepts. CO4: Choose the appropriate cloud player, Programming Models and approach. CO5: Address the core issues of cloud computing such as security, privacy and interoperability. After completing this course satisfactorily, a student will be able to: CO1: Demonstrate knowledge of the basic elements and concepts related to distributed systems technologies and architectural aspects of distributed systems; CO2: Understand various distributed algorithms, such as logical clocks and leader election. CO3: Design and implement distributed applications; CO4: Demonstrate knowledge of details the main underlying components of distributed systems (such as RPC, file systems); CO5: Use and apply important methods in distributed systems to support Task Assignment, Load balancing, Migration and threads.				T
student will be able to: C01: Compare the strengths and limitations of cloud computing. C02: Identify the architecture, infrastructure and delivery models of cloud computing. C03: Apply suitable virtualization concepts. C04: Choose the appropriate cloud player, Programming Models and approach. C05: Address the core issues of cloud computing such as security, privacy and interoperability. 88. 3-6-10781 Distributed Systems After completing this course satisfactorily, a student will be able to: C01: Demonstrate knowledge of the basic elements and concepts related to distributed system technologies and architectural aspects of distributed systems; C02: Understand various distributed algorithms, such as logical clocks and leader election. C03: Design and implement distributed applications; C04: Demonstrate knowledge of details the main underlying components of distributed systems (such as RPC, file systems); C05: Use and apply important methods in distributed systems to support Task Assignment, Load balancing, Migration and threads.				student will be able to: CO1: Independently understand basic computer network technology. CO2: Identify the different types of network topologies and protocols. CO3: Explain the types of transmission media with real time applications CO4: Gain knowledge on the functions of all layers and their protocols. CO5: Understand the routing protocols and analyze how to assign the IP addresses for the given network.
student will be able to: CO1: Demonstrate knowledge of the basic elements and concepts related to distributed system technologies and architectural aspects of distributed systems; CO2: Understand various distributed algorithms, such as logical clocks and leader election. CO3: Design and implement distributed applications; CO4: Demonstrate knowledge of details the main underlying components of distributed systems (such as RPC, file systems); CO5: Use and apply important methods in distributed systems to support Task Assignment, Load balancing, Migration and threads.	87.	3-6-107B2	Cloud Computing	student will be able to: CO1: Compare the strengths and limitations of cloud computing. CO2: Identify the architecture, infrastructure and delivery models of cloud computing. CO3: Apply suitable virtualization concepts. CO4: Choose the appropriate cloud player, Programming Models and approach. CO5: Address the core issues of cloud computing such as security, privacy and
COMPUTER APPLICATIONS	88.	3-6-107B1		student will be able to: CO1: Demonstrate knowledge of the basic elements and concepts related to distributed system technologies and architectural aspects of distributed systems; CO2: Understand various distributed algorithms, such as logical clocks and leader election. CO3: Design and implement distributed applications; CO4: Demonstrate knowledge of details the main underlying components of distributed systems (such as RPC, file systems); CO5: Use and apply important methods in distributed systems to support Task Assignment, Load balancing, Migration and threads.
			СОМРИТ	ER APPLICATIONS

89.	1-1-106R	Fundamentals of Computers	After Completion of this course the student would be able to:
		- Compandio	CO1: Describe the essential computer parts and
			their importance.
			CO2: Distinguish different types of input and output devices.
			CO3: Identifies types of processors and
			connecting peripheral devices.
			CO4: Identify the advantages and
			characteristics of different storage mediums.
			CO5: Describe assembling and to perform some simple trouble shooting.
90.	1-2-124	Fundamentals of	After Completion of this course the student
		Operating system	would be able to:
			CO1: Describe the role of operating systems.
			CO2: Understand different types of
			Operating Systems.
			CO3: Identifies the advantages of the special purpose operating systems such
			as embedded OS.
91.	1-3-106	Programming in C	After Completion of this course the student
			would be able to:
			CO1: Employ fundamental computer theory to
			basic programming techniques & describe the
			importance of algorithms and characteristics of
			different types of programming languages.
			CO2: Explain about the features of C language and different types of statements used in C.
			CO3: Identifies the advantages and
			implementation of modular programming.
			CO4: Write simple c program for handling files
			used to store data.
92.	1-4-106	Object Oriented	After Completion of this course the student
		Programming in C++	would be able to:
			CO1: Use the characteristics of an Object
			Oriented programming language.
			CO2: Understand the relative merits of C++ as an Object Oriented programming language.
			CO3: Develop programs with features of C++
			programming langue.
			CO4: Understand and explain advanced features
			of C++ like constructors, function overloading,
			operator overloading, file handling.
93.	1-5-113	Database	After Completion of this course the student
		Management System	would be able to:
			CO1: Explain the features of database
			management systems and relational database.
			CO2: Design conceptual models of a database
			using ER modeling for real life applications. CO3: Create and populate a RDBMS for a real
			life application, with constraints and keys using
			SQL.
			CO4: Retrieve any type of information from
			a database by formulating complex queries in
			SQL.

95.	1-5-114	Web Technology E-Commerce	After Completion of this course the student would be able to: CO1: Understand different types of networks and web terminologies. CO2: Understand and use HTML tags to design web pages. CO3: Identify and use components required to design dynamic web pages. After Completion of this course the student would be able to: CO1: Define and differentiate various types of E- Commerce. CO2: Describes the technologies for E-Commerce. CO3: Explains about threats and measures for security.
			COMMERCE
96.	2-1-114	Business Economics-I	After Completion of this course the student would be able to: CO1: Understand basic concepts used in economics. CO2: Understand law of demand on the basis of utility. CO3: Gain knowledge Consumer's Equilibrium Concept with the help of Indifference Curve & equi – marginal Utility. CO4: Understand the relationship between demand and other factors, and how change in various factors affects demand. CO5: Learn the concept of production function, how production units are decided and how production changes with time. CO6:Know about National Income GNP and NNP
97.	2-1-112	Business Organization	After Completion of this course the student would be able to:
			CO1: Understand the concept of Business CO2: Knowing the concepts Trade, Industry and commerce. CO3: Know the Factors influencing the choice of suitable form of business. CO4: Different forms of business organizations like sole trader ship, partnership and corporate Business etc. CO5: Know the procedure to incorporation of a company under companies act, 2013. CO6: Know the types of companies like private company and public company and their differences. CO7:Prepare of various documents in the formation of a company

98.	2-1-111	Fundamentals Of Accountancy-I	After Completion of this course the student would be able to: CO1: Understand the principles of double entry system and the concepts of debit and credit. CO2: Know the Preparation of ledgers and journals. CO3: Work out the results in terms of financial position and financial performance of sole trader ship. CO4: Understand how consignment can be used as a way to spread business beyond local boundaries. CO5: Calculate profit earned by a consignor by preparing accounts of consignment business and valuation of unsold goods with the consignee. CO6: Realize the importance of computerized accounting in a business and have a theoretical base of the accounting software Tally.
99.	2-2103R	Business Environment	After Completion of this course the student would be able to: CO1: Understand the objectives planning in India like NITI Ayog and National Development Council. CO2: Understand overall business environment and evaluate its various components in business decision making. CO3: Know the analysis and examination of significant contemporary ethical issues and challenges existing throughout the professional business arena. CO4: Take The manager's social and environmental responsibilities to a wide variety of stakeholders, including employees, customers and the public. CO5: familiarize with the nature of business environment and its components. CO6: Demonstrate and develop conceptual framework of business environment and generate interest in international business. CO7: Gain knowledge the minor and major factors affecting the business in various streams. CO8: know the different environment like, political,
			technological and economic environment in the business. CO9: Acquire in-depth knowledgeabout legal environment etc.

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101.	2-4-103	Income Tax Business Statistics	After Completion of this course the student would be able to: CO1: Understand the Direct and Indirect and Definitions of Income tax as per Income Tax Act. CO2: Know Residential Status of an individual assessee. CO3: Describe Incomes exempt from income tax. CO4: Understand various definitions as per Income Tax law, responsibilities of various income tax authorities and the assessment procedure. After Completion of this course the student would be able to: CO1: Get an idea about the "importance of the interior in business applications and the relations and the relations in business applications and the relations and the relations in business applications and the relations are relations.
			statistics in business applications and the role being played by them in the economic development of the country". CO2: Produce appropriate graphical and numerical descriptive statistics for different types of data. CO3: Use of statistical, graphical and algebraic techniques wherever relevant.
102.	2-4-101	Business Laws	After Completion of this course the student would be able to: CO1: Understand Indian Contract Act, 1872 – Essentials of Contract, Types of Contract, Competent Party, And Free Consent. CO2: Gain Knowledge on Consideration, Compensation in Indian Contract Act, 1872. CO3: understand Performance of Contract, Discharge of Contract, Contingent Contract, Quasi Contract and Sale of Goods Act 1930
103.	2-3-103	Banking Theory and Practice	After Completion of this course the student would be able to: CO1: Gain Knowledge on banking, functions of banks and financial system in India. CO2: Gain knowledge about commercial banks and its products CO3: Understand banking system in India. CO4: Understand better customer relationship. CO5: Understand modern banking services like e- banking, m-banking and internet banking.
104.	1-3-101	Corporate Accounting	After Completion of this course the student would be able to: CO1: Know the journal entries in the books of a company for Issue of shares, forfeiture and reissue of shares allotted on a pro-rata basis. CO2: Have an insight into the formats of the vertical financial statements of a company as per the Schedule III of latest provisions of the Companies Act 2013 and prepare them.

			CO3: Work out the problems regarding
			valuation of Goodwill and various accounting standards.
			CO4: Compute goodwill of a company using
			various methods when past data is provided.
			CO5: Calculate the intrinsic value, market value
			and fair value of fully paid or partly-paid equity shares and preference shares.
			CO6: Have a basic understanding of valuation of
			right shares and bonus shares.
105.	1-4-101	Accounting for	After Completion of this course the student
		service organizations	would be able to :
			CO1: Know the various legal provisions of the Banking Regulation Act 1949 and important
			terminology related to banks.
			CO2: Prepare the Balance Sheet and the Income
			Statement of a bank along with relevant
			schedules.
			CO3: Understand Types of Service
			Organizations - Section (8) and other Provisions of Companies Act,2013 -Receipts
			and Payments Accounts and Income and
			Expenditure Account- preparation of income
			and expenditure account and Balance sheet
			CO4: Gain Knowledge on Accounts of Electricity supply companies: Double
			Accounting system – Revenue Account – Net
			Revenue Account - Capital Account - General
			Balance Sheet.
			CO5: Understand the Bank Accounts - Books
			and Registers to be maintained by Banks - Banking Regulation Act, 1969 - Legal Provisions
			Relating to preparation of Final Accounts,
			CO6: Gain Knowledge on Life Insurance
			Companies - Preparation of Revenue Account,
			Profit and Loss Account, Balance Sheet as per
			LIC Act, 1956. Preparation and valuation of balance sheet – correct life assurance fund
			CO7: Understand Insurance concepts - average
			clause-calculation of salvage value – claims
			for loss
106.	2-5-101	Cost Accounting	of stock After Completion of this course the student
100.	2-5-101	Cost Accounting	would be able to :
			CO1: Prepare cost statement and tenders.
			CO2: Have basic understanding of cost
			accounting, and be aware of techniques of
			costing and various methods of costing. CO3: Understand in detail material as an
			element of cost, and methods of pricing issues
			of material.
			CO4: Understand labor cost as an element of
			cost, and various terms associated with labour
			cost remuneration methods, individual and group incentive.
			CO5: Compute remuneration by time wage and
			piece wage systems, bonus payable, and

			labour turnover rates.
			CO6: Understand overheads as an important component of cost, and segregate semi-variable overheads into fixed and variable costs. CO7: Allocation, Apportionment and reapportion of factory overheads amongst various production and service departments. CO8: Calculate rates of absorption of overheads and estimate future overheads using these rates.
107.	1-5-102	Advanced corporate accounting.	After Completion of this course the student would be able to know the CO1: Importance of accounting standards in the procedure of accounting CO2: objectives of accounting standards CO3: Meaning of amalgamation – calculation of purchase consideration – Methods – Accounting procedure in preparation of journal entries and Balance sheet with suitable illustrative problems. CO4: Necessity of internal Reconstruction – Importance – Procedure for reducing share capital – Journal entries and preparation of Revised Balance sheet. CO5: Meaning and modes of Liquidation in corporate accounts – Voluntary Liquidation – Procedure for preparation of Liquidator"s statement of account – calculation of liquidator"s remuneration (Simple problems) CO6: Concept of Holding and subsidiary company Preparation of consolidated balance sheet with live adjustments.

108.	1-5-101	Goods And Services Tax	After Completion of this course the student would be able to CO1: Analyze the taxable event under GST its meaning and scope. Meaning of Goods and services CO2: Compare and appreciate the differences between the taxable events under earlier indirect taxes regime and the GST regime. CO3: Identify the transactions that will amount to supply even without any consideration. CO4: Identify the transactions which will be treated as supply of goods and the transactions which will be treated as supply of services along with practical illustration comparing the situation under the earlier regime and the GST regime. CO5: Pinpoint the transactions which will be neither the supply of goods nor the supply of services.	
109.	2-5-104	Project Management	After Completion of this course the student would be able to know the CO1: Basics of Project Management: Project Identification Process, Initiation, Phases. CO2: Project Planning and Control: Project Planning, Responsibility and Team Work.	
			CO3: Project Execution control and Close out: Project Control, Purpose of Execution and control – Project Close – out Project Termination, Project Follow-up CO4: Project Performance Measurement and Evaluation: Performance Measurement – Performance Evaluation, Challenges of Performance Measurement and Evaluation. CO5: Project Cost estimation and Budget; project evaluation; Case Study and presentation.	

110.	2-5-112	Rural and Farm Credit	After Completion of this course the student would be able to know the CO1: Objectives and Significance of Rural credit - Classification of rural credit - General Credit Card (GCC) - Financial Inclusion - Rupay Card. CO2: Institutional and Non-institutional Agencies for financing agriculture and Rural development - Self- Help Groups (SHG) - Financing for Rural Industries. CO3: Importance of farm credit - Principles of Farm Credit - Cost of Credit - Types - problems and remedial measures - Kisan Credit Card (KCC) Scheme. CO4: Cooperative Credit: PACS - APCOB - NABARD - Lead Bank Scheme - Role of Commercial and Regional Rural Banks - Problems of recovery and over dues. CO5: Analysis of 3 R"s (Return, Repayment Capacity and Risk-bearing Capacity) - Analysis of 3 C"s of Credit (Character, Capacity and Capital) - Crop index reflecting use and farm credit - Rural Credit Survey Reports.
111.	2-5-111	Central Banking	After Completion of this course the student would be able to know the CO1: Evolution and Functions of Central Bank - Development of Central Banks in India - Trends in Central Bank Functions. CO2: Reserve Bank of India - Constitution and Governance, Recent Developments, RBI Act. CO3: Monetary policy statements of RBI - CRR - SLR - Repo Rates - Reverse Repo Rates - Currency in circulation - Credit control measures. CO4: Intervention mechanisms - Exchange rate stability - Rupee value - Controlling measures. CO5: Supervision of Banks - Basle Norms, Prudential Norms,
112.	2-6-101	Advanced Cost Accounting	After Completion of this course the student would be able to know the CO1: Preparation of Reconciliation statement CO2: Reasons for the differences between the cost profit and Financial Profit – Reconciliation of the cost profit with the financial profit vice versa. CO3:Meaning of process costing – Manufacturing

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442	1.6.1018		companies with suitability of process costing – preparation of process accounts with loss in weight, normal loss, abnormal loss and abnormal gain CO4: Meaning and the various types of operating costing businesses i.e. Transport costing Problems with Transport Costing relating to – operating Cost per kilo meter and passenger Kilo meter. CO5:Meaning of standard cost and actual cost – variances calculation of Material variances Material cost variance, Material price variance, Material Quantity variance, Material Mix variance, Material sub usage variance, Material yield variance etc. CO6: Meaning of budget – Importance of budget costing – Preparation of budgets – Problems on the preparation of fixed budget and flexible budget only.
113.	1-6-101B	Management Accounting	After Completion of this course the student would be able to: CO1: Prepare of Financial statements and there on analysis of the financial position of the business. CO2: Interpret and Analysis through Financial Ratios have in-depth knowledge of ratio analysis, and should be able to calculate and interpret various financial ratios. CO3: Prepare of Cash Flow Statement, Budgeting and Cash Budget CO4: Understanding of Management Accounting and how it differs from Cost Accounting. CO5: Analyze and interpret financial statements using various tools of financial analysis. CO6: Preparation of Cash Flow Statement of a company as per AS 3.
114.	2-6-105	Financial Services	After the successful completion of the course, the student will get CO1: an idea about the "importance of financial services and the role being played by them in the economic development of the country". CO2: familiarity on basic financial services like Banking, Insurance, factoring etc. CO3: the knowledge of the functioning of the Indian Financial System and to make them aware of the components of the system CO4: Understand the principles of banking and their functions. CO5: Describe financial intermediaries, instruments and markets. CO6: basic knowledge about important organizations like RBI, SEBI, IRDA. CO7: the concept and functioning of Stock Exchanges.

115.	2-6-106	Marketing and Financial Services	After the successful completion of the course the student will know CO1: the differences between the goods and services	
			and to evolve plans, strategies for the delivery of financial services CO2: Managing Service Counters, Integrated Service Management. CO3: Managing People for service Advantage Service Quality and Productivity – Customer Loyalty. CO4: Pricing strategies, Promotion strategies B2B Marketing – Marketing Planning and Control for services. CO5: Distributing Services: Cost and Revenue Management – Approaches for providing services - Channels for Service provision – Designing and managing Service Processes. CO6: Retail Financial Services Investment services – Insurance services - Credit Services - Institutional Financial Services - Marketing practices in select Financial Service Firms.	
116.	1-6-101A	Auditing	After the successful completion of the course the student will know CO1: Introduction to auditing, and an overview of the auditing process. CO2: Understanding the role of management in the preparation of the financial report Fundamental audit concepts CO3: Planning the audit: knowledge of the business and evaluating business risk, Assessing specific business risks and materiality. CO4: Understanding and assessing internal control. CO5: Completing the Audit. The Auditor's reporting duties CO6: The professional and regulatory environment: Legal issues affecting auditors.	





ప్రభుత్వ డిగ్రీ కళాశాల

ESTD: 1980

జమ్మలమడుగు పట్టణమునందు 1980వ సంవత్సరములో స్థాపించబడిన ప్రభుత్వ డిగ్రీ కళాశాల నందు 2022-23వ విద్యా సంవత్సరానికి డిగ్రీ ప్రథమ నంగలో ఆన్లేలెన్ ద్వారా అడ్మిషన్స్ నిర్వహించబడుచున్నవి.

మన ప్రభుత్వ డిగ్రీ కళాశాల నందు గల కోర్బుల వివరములు

(B.Com - Computers)

B.A - Computers

B.Sc - MPCs

B.Com - General

B.A - Special Telugu

B.Sc - MPC

మా కఠాశాల ప్రత్యేకతలు:-

B.A. - H.E.P

B.Sc - BZC

- JKC (Jawahar Knowledge Centre) ద్వారా ఈ సంవత్సరం TCS-ION, Spoken Tutorials కోర్సులు నేర్పబడును. మరి ఏ ఇతర కళాశాలలో ఈ సౌకర్యం లేదు.
- 👂 అరి పెద్ద గ్రంథాలయము కలిగిన పట్టణమునందలి ఏకైక కళాశాల.

LCD Projector మరియు Smart Board ద్వారా విద్యాబోథన కలదు.

- ေ సువిశాలమైన తరగతి గదులు, సైన్స్ విద్యార్థులకు అత్యాధునిక పరికరములతో కూడిన ప్రయోగశాలలు కలవు.
- Career Guidance ద్వారా ఉన్నత విద్యలలో చేరుటకు నిర్వహించబడు ప్రవేశ పరీక్షలకు మంచి శిక్షణ ఇవ్వబడును.
- జగనన్న విద్యాదీవెన, జగనన్న వసరి దీవెన, ఈ కళాశాలలో చేరిన విద్యార్థులు 100% అర్హలు. కావున
 ప్రతి విద్యార్థికి సంవత్సరానికి రు.20,000/- లు లేదా ప్రభుత్వము అందించు ల్యాప్ట్ పొందగలరు.
- తమా కళాశాలనందు విద్యార్థుల నుండి ఎటువంటి అదనపు ఫీజులు వసూలు చేయబడవు.
- ေ జమ్మలమడుగు పట్టణమునందు UGC వారిచే "NAAC" గుర్తింపు పొందిన ఏకైక కళాశాల.
- ఉన్నత విద్యాహర్షతలు కలిగిన (NET, SET, Ph d, MPhil) అనుభవజ్ఞులైన అధ్యాపకులచే బోధన.
- 🛾 22 ఎకరముల సువిశాలమైన (కీదామైదానం గల ఏకైక కళాశాల
- o విద్యార్థినుల రక్షణ కొరకు Anti Ragging Cell, Women Empowerment Cell లు కలప
- విద్యార్థుల శారీరక వ్యాయామము కొరకు అతి పెద్ద Gymnasium కలిగిన ఏకైక కళాశాలమన ప్రభుత్వ డిగ్రీ కళాశాల.
- SC, ST os Free Coaching
- Womens Hostel Facility కలదు.
- 🧧 క్రేత పర్యటనలు నిర్వహించబడును.
- కళాశాలలో చేరిన ప్రతి విద్యార్థికి ఉచిత Wifi సౌకర్యం కలదు.
- 🍳 కళాశాలలో చేరిన డ్రులి విద్యార్థికి ఉచిత జిమ్ సౌకర్యం కలదు
- SC, ST విద్యార్థులకు బుక్ బ్యాంక్ పథకం వర్తించును.
- 👂 జాతీయ, అంతర్జాతీయ (కీదలకు శిక్షణ ఇవ్వబడును.
- త ఏద్యా సంజరము నుండి ఆంగ్ల బాషలో బోధన కలిగిన కళాశాల.
- 🧕 నాడు నేడు నిధుల ద్వారా భవనాలు మరియు పరికరాలు ఆధునికరించదం

(త్రిప్పిచూడుము)

