

Government Degree College, Eturnagaram
Affiliated to Kakatiya University

Accredited by "NAAC"- "B"

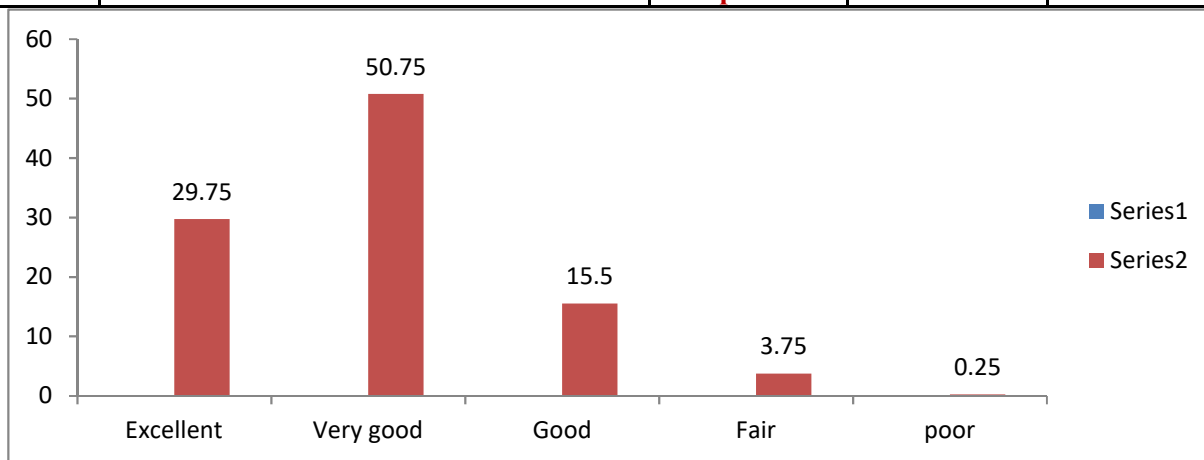
Alumni Feed Back Analysis on Curriculum

Year 2020-21

No.of samples 50

		Feed Back	Alumni Response	Percentage
1	The effectiveness of the syllabus for career readiness	Excellent	24	48
		Very good	21	42
		Good	1	2
		Fair	4	8
		poor	0	0
2	The college library and it's services	Excellent	9	18
		Very good	17	34
		Good	24	48
		Fair	0	0
		poor	0	0
3	The academic atmosphere of the college	Excellent	24	48
		Very good	21	42
		Good	1	2
		Fair	4	8
		poor	0	0
4	The effectiveness of the syllabus for higher studies readiness	Excellent	22	44
		Very good	25	50
		Good	2	4
		Fair	1	2
		poor	0	0
5	Lab facilities of the college	Excellent	16	32
		Very good	26	52
		Good	8	16
		Fair	0	0
		poor	0	0
6	Quality of teachers and teaching	Excellent	10	20
		Very good	32	64
		Good	4	8
		Fair	4	8
		poor	0	0
7	The effective ness of the syllabus for facing competitiveness	Excellent	9	18
		Very good	17	34
		Good	24	48
		Fair	0	0
		poor	0	0
8	Your overall impression about the college	Excellent	24	48
		Very good	21	42
		Good	1	2
		Fair	4	8
		poor	0	0

		Excellent		29.75
		Very good		50.75
	Result	Good		15.5
		Fair		3.75
		poor		0.25

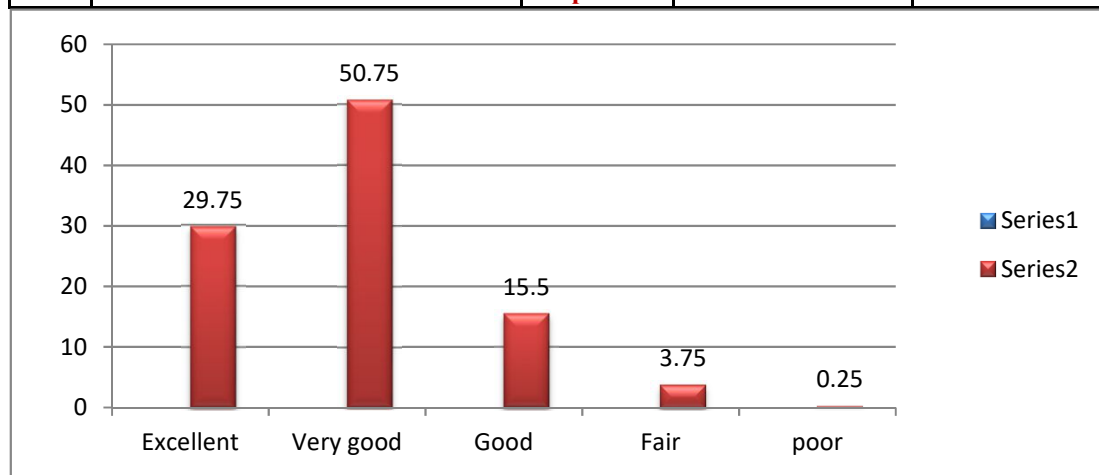


Feed back collected from parents on curriculum for the aspects of The effectiveness of the syllabus for career readiness, The college library and it's services, The academic atmosphere of the college, The effectiveness of the syllabus for higher studies readiness, Lab facilities of the college, Quality of teachers and teaching, The effective ness of the syllabus for facing competitiveness. The Overall impression about the college in their own words **80.5%** responded with "Excellent and Very good" attributes", 15.5 % with good and 0.25 by fair.

Government Degree College, Eturnagaram**Affiliated to Kakatiya University****Accredited by "NAAC"- "B"****Parents Feed Back Analysis on Curriculum****Year 2020-21****No.of samples 50**

		Feed Back	Parents Response	Percentage
1	The effectiveness of the syllabus for career readiness	Excellent	25	50
		Very good	21	42
		Good	2	4
		Fair	2	4
		poor	0	0
2	The college library and it's services	Excellent	18	36
		Very good	30	60
		Good	1	2
		Fair	1	2
		poor	0	0
3	The academic atmosphere of the college	Excellent	10	20
		Very good	32	64
		Good	4	8
		Fair	4	8
		poor	0	0
4	The effectiveness of the syllabus for higher studies readiness	Excellent	10	20
		Very good	16	34
		Good	22	44
		Fair	1	2
		poor	1	2
5	Lab facilities of the college	Excellent	14	28
		Very good	32	64
		Good	2	4
		Fair	2	4
		poor	0	0
6	Quality of teachers and teaching	Excellent	22	44
		Very good	25	50
		Good	2	4
		Fair	1	2
		poor	0	0
7	The effective ness of the syllabus for facing competitiveness	Excellent	4	8
		Very good	21	42
		Good	21	42
		Fair	4	8
		poor	0	0
8	Your overall impression abot the college	Excellent	16	32
		Very good	24	50
		Good	10	16
		Fair	0	0
		poor	0	0

	Result	Excellent		29.75
		Very good		50.75
		Good		15.5
		Fair		3.75
		poor		0.25



Feed back collected from parents on Institutional activities and curriculum for the aspects of The effectiveness of the syllabus for career readiness, The college library and it's services, The academic atmosphere of the college, The effectiveness of the syllabus for higher studies readiness, Lab facilities of the college, Quality of teachers and teaching, The effective ness of the syllabus for facing competitiveness, Your overall impression abot the college in their own words. 80.5% responded with "Excellent and Very good" attribut 15.5 % with good and 0.25 by fair.

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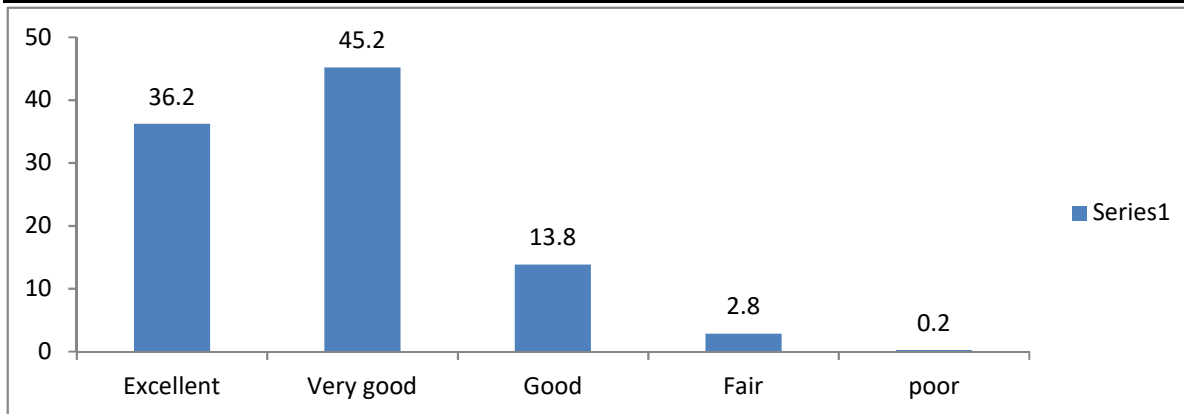
Student's Feed Back Analysis on Curriculum

Year 2020-21

Responses: 50

		Feed Back	Student's Response	Percentage
1	Content of the course in the syllabus	Excellent	24	48
		Very good	17	34
		Good	3	6
		Fair	6	6
		poor	0	0
2	Applicability/relevance to real life/in science and technology/for career of the course	Excellent	10	20
		Very good	18	36
		Good	22	44
		Fair	0	0
		poor	0	0
3	The prescribed reference books for the course	Excellent	21	42
		Very good	26	52
		Good	2	4
		Fair	1	2
		poor	0	0
4	Clarity and relevance of the text books	Excellent	16	32
		Very good	24	48
		Good	10	20
		Fair	0	0
		poor	0	0
5	The extent to which the course motivates the students to go for the higher studies or research	Excellent	12	24
		Very good	34	68
		Good	3	6
		Fair	1	2
		poor	0	0
6	Your mentor does aq necessary follow up with an assigned task to you	Excellent	17	34
		Very good	31	62
		Good	1	2
		Fair	1	2
		poor	0	0
7	What percentage of teachers used ICT tools such as LED projector, multi media ETC while teaching	Excellent	21	42
		Very good	22	44
		Good	4	8
		Fair	2	4
		poor	1	2
8	Teachers encouragement you to	Excellent	24	48
		Very good	17	34
		Good	3	6
		Fair	0	0

	participate in Extra curricular Activities	poor	0	0
9	Level of the usefulness of the Assignment and seminars to include the knowledge based in the course	Excellent	12	24
		Very good	20	40
		Good	18	36
		Fair	0	0
		poor	0	0
10	The effectiveness of the syllabus for facing competitiveness	Excellent	24	48
		Very good	17	34
		Good	3	6
		Fair	6	12
		poor	0	0



Description:

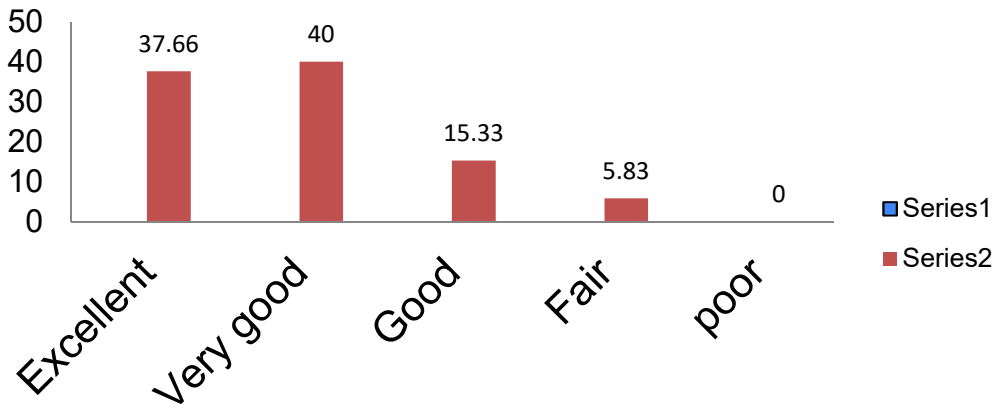
Feed back collected from the students on Institutional activities and curriculum for the aspects of "the Content of the course in the syllabus, Applicability/relevance to real life/in science and technology/for career of the course, the prescribed reference books for the course, Clarity and relevance of the text books, The extent to which the course motivates the students to go for the higher studies or research, Your mentor does an necessary follow up with an assigned task to you, projector, multi media ETC while teaching, Teachers encouragement you to participate in Extracurricular Activities, Level of the usefulness of the Assignment and seminars to include the knowledge based in the course, Level of the usefulness of the Assignment and seminars to include the knowledge based in the course, The effectiveness of the syllabus for facing competitiveness".

Overall impression about the college in their own words 81.4% responded with "Excellent and Very good" attributes", 13.8% with good ,2.8 by fair and 0.2% by poor.

Government Degree College, Eturnagaram**Affiliated to Kakatiya University****Accredited by "NAAC"- "B"****Teacher's Feed Back Analysis on Institute and Curriculum****Year 2020-21****No.of samples 15**

		Feed Back	Teacher's Response	Percentage
1	The effectiveness of the syllabus for facing competitiveness	Excellent	6	40
		Very good	6	40
		Good	2	13
		Fair	1	7
		poor	0	0
2	Timely conduct of University and Internal exams and announcement of	Excellent	5	33
		Very good	6	40
		Good	2	13
		Fair	1	7
		poor	0	0
3	Effectiveness of projects in helping students who improved their knowledge	Excellent	5	33
		Very good	6	40
		Good	3	20
		Fair	1	7
		poor	0	0
4	The effectiveness of the syllabus for higher studies readiness	Excellent	7	47
		Very good	6	40
		Good	2	13
		Fair	0	0
		poor	0	0
5	The effectiveness of the syllabus for career readiness	Excellent	6	40
		Very good	5	33
		Good	3	20
		Fair	1	7
		poor	0	0
6	Effectiveness of the present curriculum in providing a boost in the social /economic/scientific/cultural development of the society	Excellent	5	33
		Very good	7	47
		Good	2	13
		Fair	1	7
		poor	0	0

	Result	Excellent		37.66
		Very good		40
		Good		15.33



Feed back collected from teacher's on Institute and curriculum for the aspects of The effectiveness of the syllabus for facing competitiveness , Timely conduct of University and Internal exams and announcement of results in the semester system, Effectiveness of projects in helping students who improved their knowledge base in recent research trends in their respective fields, The effectiveness of the syllabus for higher studies readiness, The effectiveness of the syllabus for career readiness , Effectiveness of the present curriculum in providing a boost in the social /economic/scientific/cultural development of the society. Overall impression about the college in their own words. 77.66% of the reponses with "Excellent and very good", 15.33 % with good and 5.83% by fair.

Feedback from alumni

Action taken report on Feedback analysis.

Academic Year 2020-21

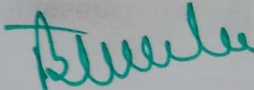


Feedback obtained from the Alumni members and organized a meeting with IQAC and Principal of the college. Principal as chairman lead the meeting and discussed all the attributes of the each and every question in the questionnaire. All the faculty and IQAC coordinator along with the Principal opened discussions, suggestions, opinions and resolved to implement an "action taken plans and ideas" to overcome the problems exposed in the analysis of feedback for Institutional development.

Constructive ideas and plans resolved:

To promoting internship, student exchange, Faculty exchange, field visit opportunities for students career progression arrange physical facilities, quality of teaching- learning, adopting new technologies. To enhance the academic atmosphere of the college, effective usage of laboratory, library and co-curricular activities in college.

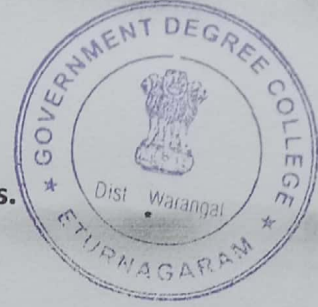

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Feedback from Teachers

Action taken report on Feedback analysis.

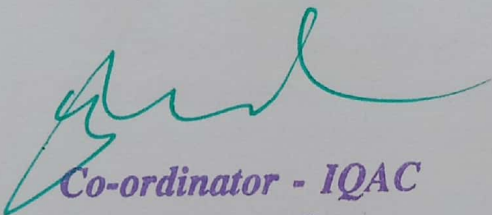
Academic Year – 2020-21



Feedback obtained from the teachers of the college analyzed the results and organized a meeting with IQAC and Principal of the college. Principal as chairman lead the meeting and discussed all the attributes of the each and every question in the questionnaire. All the faculty and IQAC coordinator along with the Principal opened discussions, suggestions, opinions and resolved to implement an "action taken plans and ideas" to overcome the problems exposed in the analysis of feedback for Institutional development.

Constructive ideas and plans resolved:

1. It is resolved that to an effective implement of quality in teaching- learning activities by adopting new technologies such as ICT tools and techniques. to implement the effective, advanced coaching to the development of students for the competitive examination in professional and academic progress.
2. Implementation of digital library, laboratory facilities for effective 3experintial learning outcomes.
3. It is also resolved that Entrepreneurial ship Developmental cell have to organize many collaborative activities with various Industries, government and Non-governmental agencies to create the employability.


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Feedback from students

Action taken report on Feedback analysis.

Academic Year – 2020-21

Feedback obtained from the students by the teachers of various departments of the college organized a meeting with IQAC and Principal. Principal as chairman lead the meeting and discussed all the attributes of the each and every question in all the departments. All the teachers and IQAC coordinator along with the Principal opened discussions, suggestions, opinions and resolved to implement an “action taken plans and ideas” to overcome the problems exposed in the analysis of feedback for Institutional development.

Constructive ideas and plans resolved:

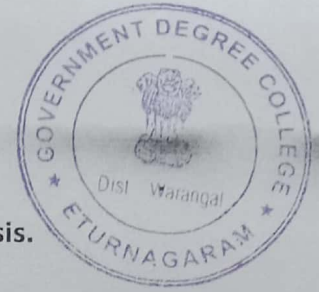
1. It has been unanimously resolved that to create and conduct of many number of experiential learning platforms, student seminars, workshops with other Institutions and companies and Industries. Student projects, field trips, Student conferences and innovative activities.
2. Usage of ICT based tools in teaching- learning activities.

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Feedback from Parents

Action taken report on Feedback analysis.

Academic Year – 2020-21

Feedback obtained from the parents and organized a meeting with IQAC and Principal of the college. Principal as chairman lead the meeting and discussed all the attributes of the each and every question in the questionnaire. All the faculty and IQAC coordinator along with the Principal opened discussions, suggestions, opinions and resolved to implement an “action taken plans and ideas” to overcome the problems exposed in the analysis of feedback for Institutional development.

Constructive ideas and plans resolved:

Action-It has been resolved that to give more priority to arrange physical facilities in the college and implement quality of teaching- learning activities by adopting new technologies. Library including digital, laboratory facilities for effective implementation of learning outcomes.

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MULUGU DISTRICT – 506165
(ACCREDITED WITH 'B' GRADE BY NAAC)

B.Sc Botany

COURSES OUTCOME

Semester – I Microbial Diversity of Lower Plants

- To gain knowledge about microbial diversity.
- To have the ability to utilize the concept of mushroom cultivation.
- To know about various plant diseases and their control measures.
- To understand life cycles of different algal species.
- To explore economic importance of algae & fungi.
- To know the Life cycles of bryophytes and Pteridophytes.

Semester – II Bryophytes, Pteridophytes, Gymnosperms and Palaeobotany.

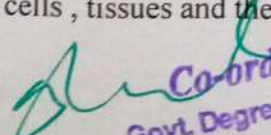
- To understand the life cycle of Gymnosperms.
- To explain about fossils and fossilization.
- To understand about geological time scale.
- To understand different types of classifications
- To know the concepts of Angiosperm Taxonomy and Nomenclature and Taxonomic resources.
- To understand the ecosystems and their components

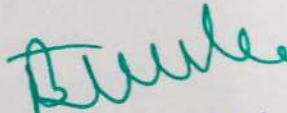
Semester – III Taxonomy of Angiosperms and Medicinal Botany

- To recognize the major groups of vascular plants and their phylogenetic relationships.
- To gain proficiency in the use of keys and identification manuals for identifying any plants to species level.
- To explore the uses of plants as medicine by traditional indigenous approaches.
- To understand different systems of medicine and their uses .
- Indigenous medicinal practices based on plant knowledge.
- To get introduced to different perspectives on treating ailments.

Semester IV – Plant Anatomy, Embryology and Palynology

- To gain knowledge of plant cells , tissues and their functions.


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- To know plant anatomy and their role in disciplines of biology.
- To know the structure and development of monocot and dicot embryos.
- To compare the function and morphology of pollen grains.
- Describe and illustrate modern and fossil spores and pollen grains.

Semester – V Cell Biology and Genetics

- To explain the structure of Cell components and their functions.
- To describe cell division in plants.
- To have knowledge of the nature and function of genes, processes of inheritance .
- To describe linkage ,crossing over and mutations .
- To understand ecological relationships and environment.

Elective: Ecology and Biodiversity

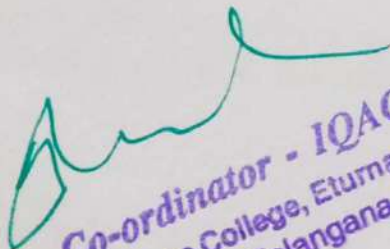
- To identify diversity of life forms in an ecosystem.
- To understand the role that biodiversity plays in conservation science

Semester – VI Plant Physiology

- To understand plant physiological processes and metabolism.
- To explain the role of micro nutrients in plant growth and development.
- To relate photosynthesis with the formation of primary and secondary metabolites.
- To know the role of nitrogen metabolism and phytohormones.

Elective: Tissue Culture and Biotechnology.

- To explain the main techniques of in vitro culture of plant cells &tissues.
- To know the methods used for the bio-production of plant secondary metabolites.
- To know the main techniques of genetic manipulation of plant organisms.


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Department of zoology

Course outcomes (Cos)

CO1: Animal diversity: To prepare students for acquiring knowledge regarding biology at the systems and organizational level. Able to assess the scope of animal biology and select particular areas for further study.

CO2: Ecology: To understand environmental functions and their relations to the human life. Environmental pollution and their effects and how to overcome the problems. Students can take environmental science as a subject for further studies.

CO3: Animal physiology: The major aim of this course is to provide students with a basic understanding of the fundamental process and mechanisms that serve and control the various function of body.

CO4: Zoogeography: To understand the distribution of animals on earth in different regions. In addition to mapping the present distribution of animal species it also gives the knowledge of the evolutionary history and relationships of the animals.

CO5: Developmental biology: To understand the events that led up to and comprises the process of fertilization. Be able to know about the micromeres, macromeres, mesomeres which form into specific cells in the embryo. This course provides scope to do research on different animal's developmental process.

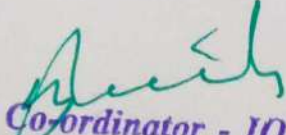
CO6: Animal behavior: The study of social behavior and organization in animals. Sociobiology has emerged as a new approach to the study of animal behavior. The study of animal behavior has led to the modern synthetic view of animals living and behaving in their natural environment. It is final objective of all other branches of biology.

CO7: Evolution: to show how natural selection ultimately underpins all biological processes and how evolution has generated biological diversity. To outline the major transition in evolution from origin of life to hominid evolution.

CO8: Genetics: To understand how inheritance of characters occur from parents to offspring. And also to deal with genetic disorders which during inheritance. Students can do further studies on how to overcome the problems of genetic disorders.

CO9: Fisheries, Apiculture and Sericulture: To promote effective fisheries management and improving standards of fisheries management. To provide technical and general knowledge necessary for fisheries management, Culturing of silkworms and Honey bees which can be useful for the for their self-employment.

Molecular Biology: Student can understand, differentiate and analyze the knowledge of DNA, RNA and Proteins participate in various metabolic activities. This can be useful for their higher education and Research.


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Immunology: Students can get the knowledge of Immunology of humans. They can analyze the different pathogenic invaders and their effect on human health. The knowledge and analysis of Immune system can be useful for their personal hygiene and also useful for higher studies and research.

Animal Biotechnology: This fascinating emerging field knowledge can be useful for the Research especially.

Aquaculture: Knowledge from the study of aquaculture can be useful to the students for the Environmental protection and proper management of Natural water resources.

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DEGREE SEMESTER I

Course Code: BS106

CHEMISTRY – I

Total Hours: 60 Credits: 4 Hours/Week: 4

Course Outcomes:

- S1-I-1: To understand the shapes of molecules based on hybridizations. Understand Bond Order, Number of bonds and Magnetic properties based on MO theory and MOED diagrams of homo and hetero nuclear diatomic molecules.
- S1-I-2: To study the structure of boranes and boron nitrogen compounds. To know about classification, structure and reactivity of carbides, silicones and nitrides.
- S1-O-1: To study the structural theory of organic chemistry
- S1-O-2: To know about acyclic hydrocarbons like alkanes, alkenes, alkynes and aromatic hydrocarbons
- S1-P-1: To study the different principles involved in atomic structure and elementary quantum mechanics.
- S1-P-2: To derive van der Waals' equation of state, and explain its significance. Explains and to derive the Bragg equation. Study and determination of viscosity and surface tension. To know about different types of liquid mixtures and their distillation processes.
- S1-G-1: To study about the general principles of inorganic qualitative analysis.
- S1-G-2: To acquire some knowledge isomerism and conformational analysis.
- S1-G-3: To study the laws of crystallography, Bravais lattice's equation.

Laboratory Course I:

CHEMISTRY - I

Total Hours: 45 Credits: 1 Hours/Week: 3

CO1. Analysis of two anions and two cations present in the given mixture by semi micro analysis.

SEMESTER II

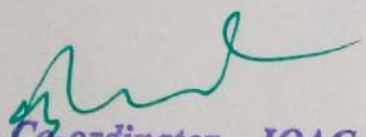
Course Code: BS206

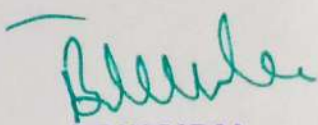
CHEMISTRY – II

Total Hours: 60 Credits: 4 Hours/Week: 4

Course Outcomes:

- S2-I-1: To study the types, structures and properties of oxides and oxyacids of IV to VII group elements and interhalogen compounds.
- S2-I-2: To study about the Xenon and clathrate compounds.
- S2-I-3: To know the characteristics of d-block elements
- S2-O-1: To study the classification and chemical reactivity of halogen compounds.
- S2-O-2: To study the preparation and properties of alcohols, phenols and ethers.
- S2-O-3: To study the preparation methods and chemical reactivity of carbonyl compounds.


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- S2-P-1: To acquire some knowledge about electrical transport and different laws involved.
To study about different types of cells EMF and its applications.
S2-G-1: To through some knowledge about theory of quantitative analysis.
S2-G-2: To gain some knowledge about stereoisomerism (optical activity).
S2-G-3: To study about dilute solutions and colligative properties.

Laboratory Course II:

CHEMISTRY - II Total Hours: 45; Credits: 1; Hours/Week: 3

CO1. Quantitative analysis

- A. Acid base titrations
- B. Redox titrations.
- C. Complexometric titrations.

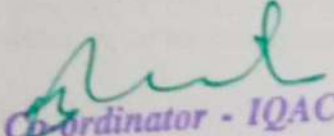
SEMESTER III

Course Code: BS 306

CHEMISTRY-III Total Hours:60; Credits: 4; Hours/Week: 4

Course Outcomes:

- S3-I-1: To know the position and properties of lanthanides and actinides
S3-I-2: To study about the symmetry operations and symmetry elements in molecules with examples.
S3-I-3: To acquire some knowledge about non-aqueous solvents, reactions in liquid ammonia and HF.
S3-O-1: To study the preparation and properties of alcohols, phenols, ethers and epoxides.
S3-O-2: To study the preparation and properties of ethers and epoxides.
S3-O-3: To study the preparation methods and chemical reactivity of carbonyl compounds.
S3-P-1: To know about the terms involved in phase rule and study about one component and two component systems.
S3-P-2: To know about the colloids, their preparations, properties and applications
To study about the surface phenomenon and factors influencing.
S3-G-1: To study about the nano structured materials, their preparation and applications.
S3-G-2: To gain some knowledge about stereochemistry of carbon compounds.


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S3-G-3: To know the classification of stereo isomers based on energy and their conformational analysis.

SEMESTER III

Course Code: BS 301

Skill Enhancement Course (Safety Rules in Chemistry Laboratory and Lab reagents) Total Hours: 30; Credits: 2; Hours/Week: 2

CO1. To educate the students about the general rules and regulations for lab safety, to minimize risk of hazards

CO2. Preparation of lab reagents with some examples.

Laboratory Course III:

CHEMISTRY - III Total Hours: 45; Credits: 1; Hours/Week: 2

CO1. Quantitative analysis-I A. Acid base titrations B. Redox titrations.

SEMESTER IV

Course Code: BS406

CHEMISTRY IV: Total Hours: 60; Credits: 4; Hours/Week: 4

Course Outcomes:

S4-I-1: To understand the key features of coordination compounds, VBT, and isomerism of the complexes.

S4-I-2: To know about the classification, preparation, properties and applications of OMC

S4-I-3: To know about the classification, preparation and properties of metal Carbonyls.

S4-O-1: To study about the carboxylic acids and their derivatives preparations and properties.

S4-O-2: To study about the carbanions and their synthetic applications.

S4-O-3: To study the preparation and properties of Nitro Alkanes and Nitro benzene.

S4-P-1: To acquire some knowledge about electrical transport and different laws involved.

To study about different types of cells, emf and its applications.

S4-G-1: To study about the pericyclic reactions, their types, Symmetry properties.

S4-G-2: To study the terminology involved in synthetic strategies and linear convergent synthesis and retro synthetic analysis of some molecules.

S4-G-3: To study the definition, classification of stereo selective, stereo specific, enantio selective and diastereo selective reactions.

Laboratory Course IV:

CHEMISTRY - IV Total Hours: 45; Credits: 1; Hours/Week: 2

CO1. Quantitative analysis-II Conductometric and Potentiometric acid base titrations.

CO2. Estimation of Nickel by Back titration method.

CO3. Estimation of Barium as barium sulphate.

SEMESTER V

Course Code: BS505

CHEMISTRY-V

Total Hours: 45

Credits: 3

Hours/Week: 3

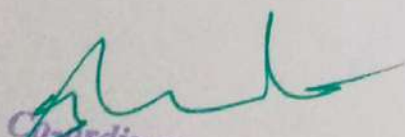
Course Outcomes:

S5-I-1: To understand crystal field theory and splitting pattern of d-orbital in different geometries.

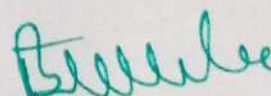
By using CFT to know the magnetic properties, electronic spectra of metal complexes.

To describe the thermo dynamic and kinetic stability of the metal complexes.

To become familiar with some applications of coordination complexes.


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- S5-I-2: To provide knowledge of some specialized areas of inorganic chemistry (Boranes and Carboranes) and their structures.
- S5-O-1: To study the nomenclature, classification, preparation, physical and chemical properties of amines, cyanides and isocyanides.
- S5-O-2: To study types of heterocyclic compounds, aromatic character, resonance structures and some chemical reactions.
- S5-P-1: To provide evidence for the mechanisms of chemical processes, to determine order and molecularity, effect of catalyst and theories involved.
- S5-G-1: To study about the various types of molecular spectra like rotational spectroscopy, IR spectroscopy and Electronic spectroscopy
- S5-G-2: To know about the laws involved in photochemistry, quantum yield and some photo chemical reactions.

Course Code: BS508A

CHEMISTRY- VI :

Instrumental Methods of Analysis:

Total Hours: 45

Credits: 3

Hours/Week: 3

Course Outcomes:

- S5-E-A- I : To study about solvent extraction, principles and classification of different chromatographic methods, TLC and Paper chromatography.
- S5-E-A-II : To study about the principle, types, methods and applications of column, ion Exchange, gas and high performance liquid chromatography.
- S5-E-A-III: To know about the terms involved in spectroscopy, Lambert Beers law, instrumentation of UV Visible, IR spectrophotometers.
- S5-E-A-IV: To study about the types of electro analytical methods, interfacial method And bulk methods.

Laboratory Course :(Organic Chemistry)

CHEMISTRY – V

Total Hours: 45

Credits: 1

Hours/Week: 2

- CO1. Synthesis of organic compounds.
- CO2. Thin Layer Chromatography

Laboratory Course (Physical Chemistry):

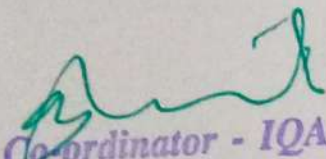
CHEMISTRY – VI

Total Hours: 45

Credits: 1

Hours/Week: 2

- CO1. A. Distribution law,


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- B. Electrochemistry
- C. Colorimetry
- D. Adsorption
- E. Physical Constants.



SEMESTER VI

Course Code: BS605

CHEMISTRY VII

Total Hours: 45 Credits: 3 Hours/Week: 3

Course Outcomes:

S6-I-1: To acquaint the student with different types of inorganic reaction mechanisms. (SN1, SN2, Trans effect).

S6-I-2: To give some knowledge about basic principles of bioinorganic chemistry, essential elements, structure and functions of hemoglobin and chlorophyll.

S6-I-3: To predict the feasibility of the reaction and stability of compounds based on HSAB principle.

S6-O-1: To study about the classification, nomenclature, chemical properties and structural elucidation of carbohydrates.

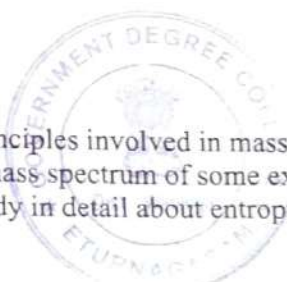
S6-O-2: To study the types, methods of synthesis and chemical properties of amino acids and proteins.

S6-P-1: Thermodynamics-I: To prove the relationship between energy, work and heat. Definition of first and second law of thermodynamics, C_p and C_v , Kirchoff's equation and Carnot's theorem

S6-G-1: To study about the principles involved in PMR with some examples.

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S6-G-2: To study about the basic principles involved in mass spectrometry, types of ions and peaks, determination of molecular weight mass spectrum of some examples.

S6-G-3: Thermodynamics-II: To study in detail about entropy its changes in different processes, Gibb's and Helmholtz functions.

Course Code: BS608A

CHEMISTRY VIII:

Medicinal Chemistry:

Total Hours: 45

Credits: 3

Hours/Week: 3

Course Outcomes:

S6-E-A-I: To study about the types of diseases, terminology involved, nomenclature, classification, therapeutic activity of drugs, ADME

S6-E-A-II: To know about enzymes and receptors, their mechanisms.

S6-E-A-III: To study about the synthesis and therapeutic activity of chemotherapeutics, drugs to treat metabolic disorders and drugs acting on the nervous system with some examples.

S6-E-A-IV: To gain some knowledge about molecular messengers and health promoting drugs.

SEMESTER VI

Course Code: BS601

Chemistry of Cosmetics & Food Processing: Total Hours: 30; Credits: 2 Hours/Week: 2

CO1. a general study on preparation and uses of some cosmetics like hair spray, sun screen lotions, creams, essential oils etc.

CO2. To improve knowledge to the students about methods of food processing and food adulteration.

Laboratory Course:

CHEMISTRY - VII

Total Hours: 45

Credits: 1

Hours/Week: 2

CO1. Qualitative and spectral analysis of organic compound

Laboratory Course (Physical Chemistry)

CHEMISTRY – VIII

Total Hours: 45

Credits: 1

Hours/Week: 2

CO1. A. Kinetics

B. Electro chemistry

C. Conductometry

a. Potentiometry

b. P_Hmetry

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PROGRAM SPECIFIC OUTCOMES

By the end of BSc programme in Mathematics a student will:



PSO1: Be familiar with different areas of Mathematics

PSO2: Construct abstract models using appropriate mathematical and statistical tools

PSO3: Be prepared to use Mathematics, not only in the discipline of Mathematics, but also in other disciplines and in their future endeavours

PSO4: Recognize what constitutes mathematical thinking, including the ability to produce and judge the validity of rigorous mathematical arguments

PSO5: Identify suitable existing methods of analysis, if any, and assess his/her strength and weaknesses in the context of the problem being considered

PSO6: Develop the skills necessary to formulate and understand proofs and to provide justification.

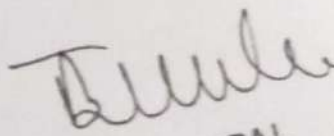
PSO7: Think critically and communicate clearly mathematical concepts and solutions to real-world problems.

PSO8: Be able to solve problems using a broad range of significant mathematical techniques.

PSO9: Engage his/her creativity in the quest for novel and elegant solutions.

PSO10: Develop an understanding of the precise language of Mathematics, and be able to integrate mathematical arguments with the uncritical thinking skills

PSO11: Be a life-long learner who is able to independently expand his/her mathematical or statistical expertise when needed.


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Course outcomes

01. By the time students complete the course Differential Calculus they realize wide ranging applications of the subject.
02. After learning the course Differential Equations the students will be equipped with the various tools to solve few types differential equations that arise in several branches of science.
03. After the completion of the course Real Analysis students will be in a position to appreciate beauty and applicability of the course.
04. On successful completion of the course Algebra students will be able to recognize algebraic structures that arise in matrix algebra, linear algebra and will be able to apply the learnt in understanding various subjects..
05. After completion of Linear Algebra students appreciate in interdisciplinary nature.
06. Students realize the importance of the subject in solving some problems of algebra and calculus.
07. Students understand the beautiful interplay between algebra and geometry.
08. Students realize the way vector calculus is used to address some of the problems of physics.

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**GOVERNMENT DEGREE COLLEGE,
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DEPARTMENT OF PHYSICS**



PROGRAMME OUTCOMES:

Students of Physical Science are expect to

- Inculcate scientific thinking and awareness.
- Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena of Physics.
- Acquire the skills in handling scientific instruments in the laboratory, and planning and performing experiments in a proper manner.
- Explain the basic scientific principles and methods.
- Analyze the applications of Mathematics to the problems in Physics and interpret the Mathematical results.

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**GOVERNMENT DEGREE COLLEGE,
ETURNAGARAM DIST: MULUGU.
DEPARTMENT OF PHYSICS**



COURSE OUTCOMES:

- By the end of first year the student should learn a thorough understanding of mechanics and Waves and Oscillations.
- By the end of second year the students will have understanding of Thermodynamics and Optics
- By the end of the third year the students should acquire thorough knowledge of electromagnetism and Modern Physics.
- By the end of the course a firm foundation in the subject is laid for further higher studies and research.

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Dist: Mulugu - Telangana State.

A handwritten signature in green ink, appearing to be 'B. S. S.', written over the printed name of the Principal.

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Department of computer Science

course outcomes:

programming with c:

Learning Outcomes: Upon completion of this course students will acquire knowledge and,

1. Able to implement the algorithms and draw flowcharts for solving Mathematical and Engineering problems.
2. Demonstrate and understanding of computer programming language concepts.
3. Ability to design and develop Computer programs, analyzes, and interprets, the concept of pointers, declarations, initialization, operations on pointers and their usage.
4. Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of array of structures.
5. Student must be able to define union and enumeration user defined data types.
6. Develop confidence for self education and ability for life-long learning needed for Computer language.

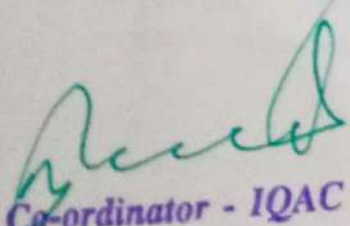
lab:

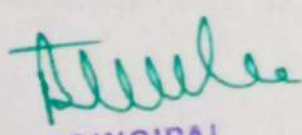
1. Develop programming skills using the fundamentals and basics of C Language.
2. Develop programs using the basic elements like control statements, Arrays and Strings Enable effective usage of arrays, structures, functions and pointers.

programming with C++

The learning objectives of this course are:

1. To understand how C++ improves C with object-oriented features.
2. To learn how to write inline functions for efficiency and performance.
3. To learn the syntax and semantics of the C++ programming language.
4. To learn how to design C++ classes for code reuse.
5. To learn how to implement copy constructors and class member functions.
6. To understand the concept of data abstraction and encapsulation.
7. To learn how to overload functions and operators in C++.
8. To learn how containment and inheritance promote code reuse in C++.
9. To learn how inheritance and virtual functions implement dynamic binding with polymorphism.
10. To learn how to design and implement generic classes with C++ templates.
11. To learn how to use exception handling in C++ programs.


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Data structures using C++

Upon completion of this course students will

1. Understand the concept of Dynamic memory management, data types, algorithms, Big O notation.
2. Understand basic data structures such as arrays, linked lists, stacks and queues.
3. Describe the hash function and concepts of collision and its resolution methods
4. Solve problem involving graphs, trees and heaps
5. Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data

DBMS

Upon completion of this course students

1. Will be able to comprehend and evaluate the role of database management systems in information technology applications within organizations.
2. Will be able to design and implement properly structured databases that match the standards based under realistic constraints and conditions.
3. Will be able to comprehend how to use Structured Query Language (SQL) to define and manipulate database information
4. Will be able to describe and develop Relational Algebra and Relational Calculus queries
5. Will be able to explain the principle of transaction management design.
6. Will be able to work in a group on the design, and implementation of a database system project.

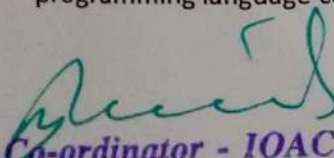
DBMS lab:

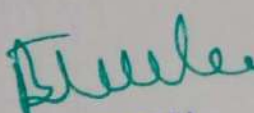
1. Experiences how to apply the theoretical information in database management systems area into practice to model and solve an engineering problem.
2. Experiences how to use SQL language for constructing and utilizing a database application.
3. Experiences how to manage data by establishing a database connection over the current programming languages.
4. Experiences on how to implement an application using a database management system.

Programming in JAVA

Upon completion of this course students will,

1. have knowledge of the structure and model of the Java programming language, (knowledge)
2. Use the Java programming language for various programming technologies (understanding)
3. Develop software in the Java programming language, (application)
4. Evaluate user requirements for software functionality required to decide whether the Java programming language can meet user requirements (analysis)


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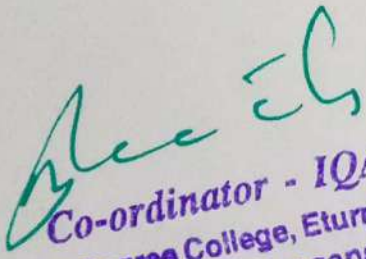
5. Propose the use of certain technologies by implementing them in the Java programming language to solve the given problem. (synthesis)
6. Choose an engineering approach to solving problems, starting from the acquired knowledge of programming and knowledge of operating systems. (evaluation)

Lab:

1. Write, compile, and execute Java programs that include basic data types and control flow constructs using J2SE
2. Write, compile and execute Java programs using object oriented class structures with parameters, constructors, and utility and calculations methods, including inheritance, test classes and exception handling.
3. Write, compile, and execute Java programs using arrays and recursion.
4. Write, compile, and execute Java programs manipulating Strings and text documents.
5. Write, compile, execute Java programs that include GUIs and event driven programming.
6. Write a final project that may be selected from among the following: applets for inclusion in web pages, applets to access enterprise data bases in robust, enterprise three level applications.

Operating systems:

1. Understand the basics of operating systems like kernel, shell, types and views of operating systems
2. Describe the various CPU scheduling algorithms and remove deadlocks.
3. Explain various memory management techniques and concept of thrashing
4. Use disk management and disk scheduling algorithms for better utilization of external memory.
5. Recognize file system interface, protection and security mechanisms.
6. Explain the various features of distributed OS like Unix, Linux, windows etc.


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Faculty of Commerce

Program Outcomes and Program Specific Outcomes of B.Com program

Po1: To impart the knowledge of accounting procedure and preparation final accounts of various forms business organizations.

PO2: To acquire basic conceptual knowledge on various forms of business organizations.

PO3: To acquaint the students with the concepts of Indian financial system and financial services.

PO4: To equip the students with the knowledge on various laws applicable to business in India.

Course	Course outcomes
Financial Accounting-I	To acquire conceptual knowledge of basics of accounting and preparation of final accounts of sole traders.
Business Organization & Management	To acquaint the students with the basics of commerce and business concepts and functions, forms of business organizations and functions of management
Financial Accounting - II	To impart the skills of preparation of final accounts of non-trading concern, partnership and non-profit organizations.
Business Statistics-I	To inculcate analytical and computational ability among the students.
Advanced Accounting	To enable the students to prepare financial statements of insurance and banking companies.
Income Tax-I	To equip the students with the working knowledge of both direct and indirect taxes. To acquire conceptual and legal knowledge about income tax provisions relating to computation of income from different heads with reference to the individual assessee.
Corporate Accounting	To develop the skills of recording the transactions relating to issue of shares and debentures, branches of department manually and using computers
Business Statistics - II	To impart knowledge on application of statistical tools and techniques in business decision making and use MS-Excel in interpretation of statistical data.
Entrepreneurship Development	To understand the various concepts relating entrepreneurship development.
Business Law	To understand basics of contract act, sale of goods act, ITRS and legal provisions applicable for establishment and management and winding up of companies in India.
Banking Theory & practice	To impart knowledge on the development banking system in India and functioning of central bank and commercial banks in India.
Auditing	To understand meaning and elements of auditing and gain knowledge for execution of audit.


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Cost Accounting	To train the students in finding the cost of products using different methods of costing. To impart conceptual knowledge of costing and management accounting.
Managerial Accounting	To equip basic skills of analysis of financial information to be useful to the management.
Company Law	To impart knowledge on the provisions provided in Companies Act 2013 regarding company formation, management and dissolutions.
Human Resource Management	To understand the important concepts of human resource management.
Preparation of Tax Returns	To enable the students to prepare the tax returns of an individual assessee.
Advertising	To understand the concept of advertising, advertising methods etc.
Computerized Accounting	To enable students to prepare final accounts using accounting package.
Financial Institutions and Markets	To impart the knowledge on banking and insurance concepts and to gain an insight on financial services.
Organization Behavior	To understand the personality traits, group behavior and conflict management

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Department of Computer Applications

Course Outcomes:

FUNDAMENTALS OF INFORMATION TECHNOLOGY

1. Describes the computer and its general features
2. will be able to understand basic computer hardware
3. Defines hardware and software concepts
4. Defines input and output units of Computer
5. Knows the terms of motherboard, CPU, RAM, ROM, BIOS, CMOS and can express with their own words.. Identifies and explains computers hard wares
6. describes the communication units of computers.

Lab outcomes:

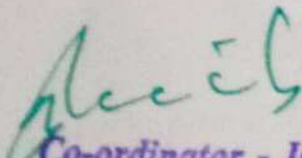
1. Design a document using MS_WORD.
2. Demonstrate and compute the data using Spread Sheet.
3. Create, edit, save presentations, and Format presentations

Programming in C And C++


1. Understanding a functional hierarchical code organization.
2. Ability to define and manage data structures based on problem subject domain.
3. Ability to work with textual information, characters and strings.
4. Ability to work with arrays of complex objects.
5. Understanding a concept of object thinking within the framework of functional model.
6. Ability to handle possible errors during program execution.

Relational Database Management System

1. Describe DBMS architecture, physical and logical database designs, database modeling, relational, hierarchical and network models.
2. Identify basic database storage structures and access techniques such as file organizations, indexing methods including B-tree, and hashing.


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3. Learn and apply Structured query language (SQL) for database definition and database manipulation.
 4. Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database.
 5. Understand various transaction processing, concurrency control mechanisms and database protection mechanisms.

lab

1. Experiences how to apply the theoretical information in database management systems area into practice to model and solve an engineering problem.
2. Experiences how to use SQL language for constructing and utilizing a database application.
3. Experiences how to manage data by establishing a database connection over the current programming languages.
4. Experiences on how to implement an application using a database management system.

Web Technologies

After completing the Course, students will

1. Explain the history of the internet and related internet concepts that are vital in understanding web development.
2. Discuss the insights of internet programming and implement complete application over the web.
3. Demonstrate the important HTML tags for designing static pages and separate design from content using Cascading Style sheet.
4. Utilize the concepts of JavaScript and Java
5. Use web application development software tools i.e. PHP and XML etc. and identify the environments currently available on the market to design web sites.

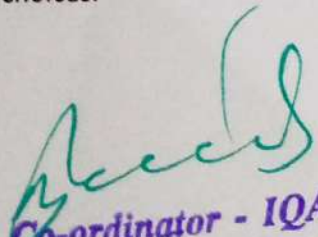
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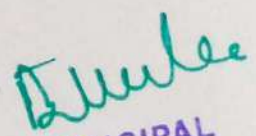
1. Design and implement dynamic websites with good artistic sense of designing
2. Have a Good grounding of Web Application Terminologies, Internet Tools, E – Commerce and other web services

Ecommerce Course outcome:

After completing the Course, students will

1. Analyze the impact of E-commerce on business models and strategy.
2. Describe the major types of E-commerce.
3. Explain the process that should be followed in building an E-commerce presence.
4. Identify the key security threats in the E-commerce environment.
5. Describe how procurement and supply chains relate to B2B E-commerce.
6. Analyze real business cases regarding their e-business strategies and transformation processes and choices.


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Object Oriented programming language

After completing the Course, students will learn:

1. Articulate the principles of object-oriented problem solving and programming.
2. Outline the essential features and elements of the C++ programming language.
3. Explain programming fundamentals, including statement and control flow and recursion.
4. Apply the concepts of class, method, constructor, instance, data abstraction, function abstraction, inheritance, overriding, overloading, and polymorphism.
5. Program with basic data structures using array
6. Program using objects and data abstraction, class, and methods in function abstraction.

Lab

1. Analyze, write, debug, and test basic C++ codes using the approaches introduced in the course.
2. Analyze problems and implement simple C++ applications using an object-oriented approach.

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Specific Outcomes of the History

- Students are made to understand the History of the Telangana, History of the South India , History of the India, History of the modern world.
- Students are Explained the importance of the History and made them to preserve Local History and monuments around.
- For the Awareness in Students on the Local History like Bathukamma Bonalu Muharram and medaram (sammakkasaralammajathara) Tribal goddessess fair.
- History is to Create the Awareness in Students strong human efforts in different fields and perspectives brought in human life, Culture and Civilization, by Assessing it's heritage and it's Significance A nation makes necessary changes According to the changing times in past to present to the future.
- To create the Awareness among the students that History plays a key role in all the Competitive Examinations as a part of general studies paper getting more questions from it since The subject History is a Deciding factor in getting Government jobs.
- To create the Awareness among the students on the Research projects.

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Learning outcomes of the Course

- History has noble Aims such as Forstoring , Historical Knowledge and promoting students not only Academic Activities such as Higher learning and research,But Also Competitive in Nature.
- History has also been attempting to focus on the cultural heritage and traditions of Telangana and India so as to imbibe in the minds of Students
- The cultural values of the Region and this nation through class room lectures and Various Academic Exercises through different kinds of Lectures seminars,Quizes ,study projects ,Historical field trips etc..This would help to prepare the students to play great role in Regional ,National and International Area.
- History has always been striving to Achieve Excellence in Academic Activities ,Students talents should be properly challanise by shaping them properly to become distinguished men in society and by offering them training in Academic Exercises.
- History has been Conducting programs for students to Enable them to Appear for the Union and Telangana public Service commission /Andhrapradesh service commission Examinations and to get selected in various Government and non Governmental Services.
- History efforts will be in the direction of creating more and more scholars and intellectuals to service the people and the Nation's in various ways for the students.

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PROGRAM OUTCOMES

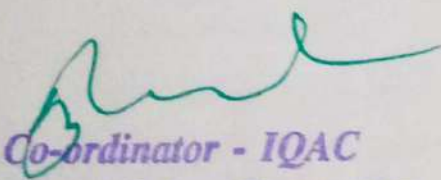
The study of Economics

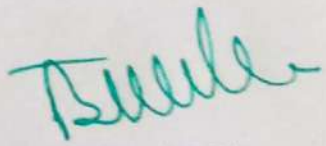
1. Provides valuable knowledge for making decisions in everyday life.
2. Helps people to plan all the aspects of life systematically like income, expenditure balancing in the family member's time management, work management regarding saving investment etc.
- 3: Economics is the study of how societies, governments, businesses, households, and individuals allocate their scarce resources.

PROGRAM SPECIFIC OUTCOMES

Micro Economics: by studying the micro Economics Students will be able to understand supply and demand analysis, Define the consumer behavior, production, costs etc. different conditions . Integrate the concepts of cost and revenue and analyze the status of firms. Classify types of market structures- Process of determination of prices under different market structures. Analyze the decisions of firms aimed at realizing objectives. Evaluate the pricing strategies of firms under different market conditions.

Macro Economics : Identify different structures of an economy and describes how the income flows among different sectors of the economy. To get knowledge regarding the concept of national income, employment theories (classical, modern), investment, consumption, interest theories, supply of money and demand for money, inflation and business cycle. Explain theorems of Income and employment. Understand the concepts of investment and capital –Determinants of investment and capital. Define what is money and classify its functions – Related theorems of supply of money with indian money supply. Analyze the causes and effects of inflation. suggest solutions to control money. Integrate various parameters and analyse the macro economic status of Indian economy. Public Finance Student understood the various concepts of public finance like public revenue, public expenditure, public debt, federal finance, taxes etc.


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1.

Development Economics: Define the concepts of Economic Growth and Development - Construct the measurement of Economic Development. Interpret the role of State and market in economic development. Relate the factors that affect economic development - Distinguish between developed and developing countries. Understand theories of Demographic transition. Interpret theories of Economic development. Interpret theories of Under Development.

INDIAN ECONOMY: Describe the structure of Indian economy- Resource base -Size, composition of population and analyse its effects on economy. Explain the role and importance of Agriculture in Indian Economy - Relate the growth and changes in Indian Agriculture. Evaluate the problems of Indian Agriculture sector. Describe the importance of Industry and analyse the trends in Industrial production of Indian Economy - Analyse the impact of Industrial policy resolutions. Evaluate planning in India- Five year plans objectives, strategies. Evaluate the performance of Indian planning. Analyse the role of service sector in Indian economy - Trends of service sector growth and contribution of important sectors, Evaluate the impact of economic reforms liberalization, Privatization and Globalisation.

INTERNATIONAL ECONOMICS: Explain the classical and modern theories of International trade absolute advantage and comparative advantage. Describe the role of international trade in Economic Growth. Analyse how the terms of trade change and effect economies. Explain different barriers to international trade and analyse how the quantitative and qualitative restrictions on trade impact economies. Construct Balance of Payments and analyse the causes for disequilibrium in Balance of Payments and suggest measures to correct it. Evaluate composition and direction of international trade of India. Evaluate the export and import policies of Indian Economy. Integrate and evaluate the status of international trade of Indian Economy in the present context.

TELANGANA ECONOMY: Describe the basic features of Telangana Economy. Construct the demographics and occupational distribution of Telangana. Analyse the trends in rates of growth of Gross State Domestic Product (GSDP), Per capita Income of Telangana. Analyse the problems of Poverty, unemployment and concentration of economic power. Describe the features of Agriculture in Telangana and analyse trends of growth. Analyse the trends in agricultural productivity and evaluate the impact of Mission Kakatiya. Describe the structure of Telangana Industry and Service sector. Evaluate the impact of TS iPASS on industrial growth.

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తెలుగు -ముఖ్యమైన ఫలితాలు

డిగ్రీ స్థాయిలో ద్వితీయ భాషగా తెలుగు బోధన విద్యార్థులకు అనేక విధాలుగా ప్రయోజనకరంగా ఉంటుంది.

1.విద్యార్థులకు ప్రాచీన సాహిత్యం, ఆధునిక సాహిత్యం,వచన కవిత్వం, భాషాభాగాలు,వ్యాకరణం,చందస్సు మొదలైన అంశాల పట్ల అవగాహన కలిగే విధంగా సిలబస్ రూపకల్పన జరిగింది.

2.ఆంధ్రమహాభారతం,భాగవతం,రామాయణం,ఇతర కావ్యాలు మొదలైన వాటి నుండి గ్రహించబడిన పాఠ్యాంశాల వలన విద్యార్థులలో వ్యక్తిత్వవికాసం పెంపొందడమే కాకుండా వారికి ఆచారవ్యవహారాలు,మన సంస్కృతి గొప్పదనం ,మాటనేర్పరితనం,దేశభక్తి ,గురుభక్తి,పితృభక్తి వృద్ధిపొందుతుంది.

3.మాతృభాష పట్ల అభిమానముండి భాషను రక్షించుకుంటే విద్యార్థులలో భావ దారిద్ర్యం పోతుంది.



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తెలుగు అధ్యయనం-ఫలితాలు

డిగ్రీ స్థాయిలో తెలుగును అధ్యయనం చేయడం వలన విద్యార్థికి అనేక ప్రయోజనాలు కలవు.

1. ఆయా పాఠ్యాంశాలలో పరిచయమైన పాత్రల ఉదాత్తతను విద్యార్థి ఆకళింపు చేసుకుంటే అతనిలో ఉత్తమగుణాలు వృద్ధిపొందుతాయి.
2. మాతృభాషలో ప్రావీణ్యం సంపాదిస్తే ఇతర భాషలు సులభంగా నేర్చుకోవచ్చు.
3. భాషోచ్ఛరణలో స్పష్టత ఉంటే ఉద్యోగాలకు జరిగే మాఖిక పరీక్షలలో సులభంగా ఎన్నికయ్యే అవకాశముంటుంది.
4. యు.పి.యస్.సి పరీక్షలలో కూడా తెలుగును ప్రత్యేకాంశంగా తీసుకొని చదివే అవకాశముంది.
5. పి.జి.స్థాయిలో తెలుగును చదివితే పత్రికరంగం, సినిరంగం, టీ.వి.మొదలైన వాటిలో ఉపాధి లభించడమే కాకుండా జూనియర్ లెక్చరర్, అసిస్టెంట్ ప్రొఫెసర్ లాంటి ఉద్యోగాలను పొందవచ్చును.
6. వివిధ కవుల కావ్యాలు, వాటిలోని వర్ణనలు అధ్యయనం చేస్తే విద్యార్థులలో సృజనాత్మకత వృద్ధి చెందుతుంది.



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PROGRAM OUTCOME: To make the students able to learn English for comprehension, communication, competency and career growth.

PROGRAM SPECIFIC OUTCOME

> Competency of students in the four basic skills of language - LSRW.

Listening: Accuracy in listening through audio/video aids, clear pronunciation by the instructor, peer readingwith focus and selective approach.

Speaking: Accuracy in speaking through conversation (formal/casual), small talks, debates, peer chattingwith good accent and modulation.

Reading: Accuracy in reading through reading aloud in classroom situation, literary gatherings, college assemblymaintaining the right pace, rhythm and pause.

Writing: Accuracy in writing through rigorous practice in the form of short stories, articles, personal diaries, academic profilewith legible and well structured sentence patterns.

OUTCOME: Department of English has become successful in accomplishing the target stated in the PO/PSO and CO.

Students - JIGNASA STATE LEVEL 'CERTIFICATE OF COMMENDATION' (2018-19)

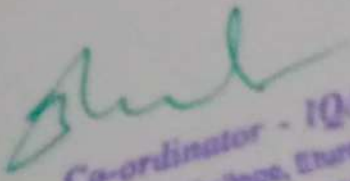
> With a view to encourage language learning and enhance research skills among students, the platform extended by Commissioner of Collegiate Education through JIGNASA was put to maximum use the faculty of English in moulding the students to suit the requirements of the day. 6 students from Science/Arts/Commerce groups have been selected for the JIGNASA program 2018-19 to make research on the linguistic difficulties of the learners studying in High School, Junior College both Telugu and English media, government and private. College students have made effective use of the available resources in accumulating information from the target group. They could find a change in their communication and when the research project was selected for presentation at the state level their happiness knew no bounds. Their levels of comprehension, communication and competence underwent a remarkable change when exposed to perform with peer learners from different part of the state.

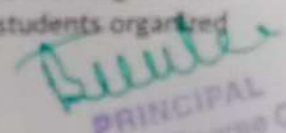
Contract Lecturers - ONE DAY WORKSHOP ON 'SOFT SKILLS' - March 2019.

> Students' competency in language acquisition and use depends to a major extent on the communication skills of the teacher. With a view to help the contract faculty exclusively from departments other than English, a 'One Day Workshop on Soft Skills' with the permission of Commissioner of Collegiate Education and financial assistance of the ITDA, Eturnagaram was conducted for motivating the contract lecturers on activities related to LSRW.

Teachers/Scholars - TWO DAY NATIONAL SEMINAR ON 'SOFT SKILLS' - February 2020

> Keeping in view of the topography of the institution Department of English with the sole intention of providing exposure to both faculty and students organized


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a 'Two Day National Seminar on Soft Skills for Conventional and Professional Courses' with the permission and financial assistance of Commissioner of Collegiate Education. Resource persons from well reputed institutions participated in the seminar. As many as 100 papers were presented by learned faculty and upcoming research scholars. This has motivated college students and nearly 6 students presented papers on their own.

Thus the purpose of English for enrichment, advancement, accomplishment and excellence as envisioned by the syllabus designers was brought to fruition by the Department of English.


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COURSE OUTCOME

Comprehension : Students' comprehensive style must undergo a remarkable change from the basic level to the advanced level by the time they leave the institution after the completion of the course. Syllabus designed by the course writers has to be manipulated effectively for the teacher during the process of interaction to good use in consonance with the grasping levels of the learners.

Communication : Students who fear speaking in English at the entry level of the course should find themselves in a comfortable position using English with confidence and courage at the time of exit.

Competency: Students learn English as part of curriculum for academic growth in the institution and for personal and professional growth outside the institution. As such necessary care has to be taken by the instructor in moulding the available textual resources for enhancing the competency levels of the learners.

Employability: Students at the end of the course either seek employment or continue with higher studies. But language becomes a tool of perfection in both these areas of accomplishment and advancement.

A handwritten signature in blue ink, appearing to be 'Sant'.

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Department of zoology

Program Outcomes (POs)

- PO1: This program can be used for Higher Education, Research and self Employability to the students.
- PO2: Knowledge and practical experiences in biological science knowledge in Aquaculture, Apiculture, Agriculture and Medicine and clinical pathology which can be useful for their self Employability
- PO3: Knowledge of the Animal Science- Animal diversity of invertebrates and Vertebrates, Cell biology, Taxonomy, Embryology, Animal Physiology, Ecology, Zoogeographical concepts, and Genetics and Molecular Biology, Immunology, Animal biotechnology can be useful for the Post graduation level Education and also for Research.
- PO4: Knowledge of fisheries management, culturing of silkworms and Honey bees which can be useful frothier self-employment, higher Education and Research.

PROGRAM SPECIFIC OUTCOMES OF ZOOLOGY (PSOs)

- PSO1: Students can understand the nature and basic concepts of Animal Science- Animal diversity of invertebrates and Vertebrates, Cell biology, Taxonomy, Embryology, Animal Physiology, Ecology, Zoogeographical concepts, and Genetics and Molecular Biology, Immunology, Animal biotechnology. Students can increase their understanding levels which can be used for further studies in Animal sciences.
- PSO2: Learners can get the knowledge and understanding the fields of Fisheries, Poultry management, Apiculture and sericulture. Students can be experienced in frequent visits of culturing areas which can be useful for their self Employability.
- PSO3: Analyzing the relationship between animals, plants and micro-organisms.
- PSO4: Performs experimental procedures as per laboratory standards in the areas of invertebrates and Vertebrates, Cell biology, Taxonomy, Embryology, Animal Physiology, Ecology, Zoogeographical concepts, and Genetics and Molecular Biology, Immunology, Animal biotechnology.
- PSO5: Students can apply of biological science knowledge in Aquaculture, Apiculture, Agriculture and Medicine and clinical pathology.

Course outcomes of zoology (Cos)

- CO1: Animal diversity: To prepare students for acquiring knowledge regarding biology at the systems and organizational level. Able to assess the scope of animal biology and select particular areas for further study.

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Department of zoology

Course outcomes (Cos)

CO1: Animal diversity: To prepare students for acquiring knowledge regarding biology at the systems and organizational level. Able to assess the scope of animal biology and select particular areas for further study.

CO2: Ecology: To understand environmental functions and their relations to the human life. Environmental pollution and their effects and how to overcome the problems. Students can take environmental science as a subject for further studies.

CO3: Animal physiology: The major aim of this course is to provide students with a basic understanding of the fundamental process and mechanisms that serve and control the various function of body.

CO4: Zoogeography: To understand the distribution of animals on earth in different regions. In addition to mapping the present distribution of animal species it also gives the knowledge of the evolutionary history and relationships of the animals.

CO5: Developmental biology: To understand the events that led up to and comprises the process of fertilization. Be able to know about the micromeres, macromeres, mesomeres which form into specific cells in the embryo. This course provides scope to do research on different animal's developmental process.

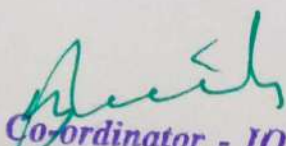
CO6: Animal behavior: The study of social behavior and organization in animals. Sociobiology has emerged as a new approach to the study of animal behavior. The study of animal behavior has led to the modern synthetic view of animals living and behaving in their natural environment. It is final objective of all other branches of biology.

CO7: Evolution: to show how natural selection ultimately underpins all biological processes and how evolution has generated biological diversity. To outline the major transition in evolution from origin of life to hominid evolution.

CO8: Genetics: To understand how inheritance of characters occur from parents to offspring. And also to deal with genetic disorders which during inheritance. Students can do further studies on how to overcome the problems of genetic disorders.

CO9: Fisheries, Apiculture and Sericulture: To promote effective fisheries management and improving standards of fisheries management. To provide technical and general knowledge necessary for fisheries management, Culturing of silkworms and Honey bees which can be useful for the for their self-employment.

Molecular Biology: Student can understand, differentiate and analyze the knowledge of DNA, RNA and Proteins participate in various metabolic activities. This can be useful for their higher education and Research.


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Immunology: Students can get the knowledge of Immunology of humans. They can analyze the different pathogenic invaders and their effect on human health. The knowledge and analysis of Immune system can be useful for their personal hygiene and also useful for higher studies and research.

Animal Biotechnology: This fascinating emerging field knowledge can be useful for the Research especially.

Aquaculture: Knowledge from the study of aquaculture can be useful to the students for the Environmental protection and proper management of Natural water resources.

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Department of Chemistry

Programme Outcomes

PO1 has knowledge about the fundamentals and applications of chemical and scientific of chemical and scientific theories

PO2 All branches of Science & Technologies are related to Chemistry Subject.

PO3 Have the practical knowledge about the qualitative and quantitative analysis of chemicals. This knowledge can be applied in Laboratories and Industries.

PO4 Improves problem solving skills, analytical skills requiring applications of chemistry principles.

PO5 becomes familiar with the different branches of Chemistry like Inorganic, Organic and Physical etc.

PO6 Understand the causes and controlling methods of environmental pollution.

PO7 Gain the knowledge to Synthesize, Separate and Characterize compounds in the laboratory

PO8 Acquire the knowledge about instrumentation techniques.

Programme Specific Outcomes

PSO-1. Acquire the knowledge of Chemistry through theory and practicals.

PSO-2. Understand the nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions.

PSO-3. Solve the problems in chemistry by understanding concepts.

PSO-4. Use Models, Charts and Equipments.

PSO-5. Know structure-activity relationship.

PSO-6. Understand the laboratory practices and safety measures.

PSO-7. Improve research knowledge and oriented skills.

PSO-8. Make aware and handle the sophisticated instruments/equipments.

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DEGREE SEMESTER I

Course Code: BS106

CHEMISTRY – I

Total Hours: 60 Credits: 4 Hours/Week: 4

Course Outcomes:

- S1-I-1: To understand the shapes of molecules based on hybridizations. Understand Bond Order, Number of bonds and Magnetic properties based on MO theory and MOED diagrams of homo and hetero nuclear diatomic molecules.
- S1-I-2: To study the structure of boranes and boron nitrogen compounds. To know about classification, structure and reactivity of carbides, silicones and nitrides.
- S1-O-1: To study the structural theory of organic chemistry
- S1-O-2: To know about acyclic hydrocarbons like alkanes, alkenes, alkynes and aromatic hydrocarbons
- S1-P-1: To study the different principles involved in atomic structure and elementary quantum mechanics.
- S1-P-2: To derive van der Waals' equation of state, and explain its significance. Explains and to derive the Bragg equation. Study and determination of viscosity and surface tension. To know about different types of liquid mixtures and their distillation processes.
- S1-G-1: To study about the general principles of inorganic qualitative analysis.
- S1-G-2: To acquire some knowledge isomerism and conformational analysis.
- S1-G-3: To study the laws of crystallography, Bravais lattice's equation.

Laboratory Course I:

CHEMISTRY - I

Total Hours: 45 Credits: 1 Hours/Week: 3

CO1. Analysis of two anions and two cations present in the given mixture by semi micro analysis.

SEMESTER II

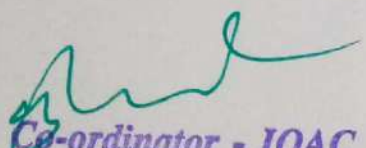
Course Code: BS206

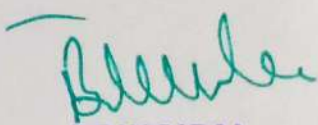
CHEMISTRY – II

Total Hours: 60 Credits: 4 Hours/Week: 4

Course Outcomes:

- S2-I-1: To study the types, structures and properties of oxides and oxyacids of IV to VII group elements and interhalogen compounds.
- S2-I-2: To study about the Xenon and clathrate compounds.
- S2-I-3: To know the characteristics of d-block elements
- S2-O-1: To study the classification and chemical reactivity of halogen compounds.
- S2-O-2: To study the preparation and properties of alcohols, phenols and ethers.
- S2-O-3: To study the preparation methods and chemical reactivity of carbonyl compounds.


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- S2-P-1: To acquire some knowledge about electrical transport and different laws involved.
To study about different types of cells EMF and its applications.
S2-G-1: To through some knowledge about theory of quantitative analysis.
S2-G-2: To gain some knowledge about stereoisomerism (optical activity).
S2-G-3: To study about dilute solutions and colligative properties.

Laboratory Course II:

CHEMISTRY - II Total Hours: 45; Credits: 1; Hours/Week: 3

CO1. Quantitative analysis

- A. Acid base titrations
- B. Redox titrations.
- C. Complexometric titrations.

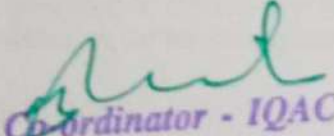
SEMESTER III

Course Code: BS 306

CHEMISTRY-III Total Hours:60; Credits: 4; Hours/Week: 4

Course Outcomes:

- S3-I-1: To know the position and properties of lanthanides and actinides
S3-I-2: To study about the symmetry operations and symmetry elements in molecules with examples.
S3-I-3: To acquire some knowledge about non-aqueous solvents, reactions in liquid ammonia and HF.
S3-O-1: To study the preparation and properties of alcohols, phenols, ethers and epoxides.
S3-O-2: To study the preparation and properties of ethers and epoxides.
S3-O-3: To study the preparation methods and chemical reactivity of carbonyl compounds.
S3-P-1: To know about the terms involved in phase rule and study about one component and two component systems.
S3-P-2: To know about the colloids, their preparations, properties and applications
To study about the surface phenomenon and factors influencing.
S3-G-1: To study about the nano structured materials, their preparation and applications.
S3-G-2: To gain some knowledge about stereochemistry of carbon compounds.


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S3-G-3: To know the classification of stereo isomers based on energy and their conformational analysis.

SEMESTER III

Course Code: BS 301

Skill Enhancement Course (Safety Rules in Chemistry Laboratory and Lab reagents) Total Hours: 30; Credits: 2; Hours/Week: 2

CO1. To educate the students about the general rules and regulations for lab safety, to minimize risk of hazards

CO2. Preparation of lab reagents with some examples.

Laboratory Course III:

CHEMISTRY - III Total Hours: 45; Credits: 1; Hours/Week: 2

CO1. Quantitative analysis-I A. Acid base titrations B. Redox titrations.

SEMESTER IV

Course Code: BS406

CHEMISTRY IV: Total Hours: 60; Credits: 4; Hours/Week: 4

Course Outcomes:

S4-I-1: To understand the key features of coordination compounds, VBT, and isomerism of the complexes.

S4-I-2: To know about the classification, preparation, properties and applications of OMC

S4-I-3: To know about the classification, preparation and properties of metal Carbonyls.

S4-O-1: To study about the carboxylic acids and their derivatives preparations and properties.

S4-O-2: To study about the carbanions and their synthetic applications.

S4-O-3: To study the preparation and properties of Nitro Alkanes and Nitro benzene.

S4-P-1: To acquire some knowledge about electrical transport and different laws involved.

To study about different types of cells, emf and its applications.

S4-G-1: To study about the pericyclic reactions, their types, Symmetry properties.

S4-G-2: To study the terminology involved in synthetic strategies and linear convergent synthesis and retro synthetic analysis of some molecules.

S4-G-3: To study the definition, classification of stereo selective, stereo specific, enantio selective and diastereo selective reactions.

Laboratory Course IV:

CHEMISTRY - IV Total Hours: 45; Credits: 1; Hours/Week: 2

CO1. Quantitative analysis-II Conductometric and Potentiometric acid base titrations.

CO2. Estimation of Nickel by Back titration method.

CO3. Estimation of Barium as barium sulphate.

SEMESTER V

Course Code: BS505

CHEMISTRY-V

Total Hours: 45

Credits: 3

Hours/Week: 3

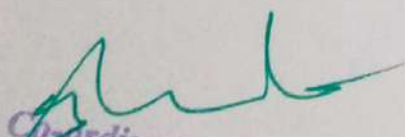
Course Outcomes:

S5-I-1: To understand crystal field theory and splitting pattern of d-orbital in different geometries.

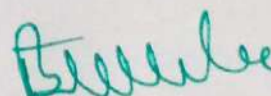
By using CFT to know the magnetic properties, electronic spectra of metal complexes.

To describe the thermo dynamic and kinetic stability of the metal complexes.

To become familiar with some applications of coordination complexes.


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- S5-I-2: To provide knowledge of some specialized areas of inorganic chemistry (Boranes and Carboranes) and their structures.
- S5-O-1: To study the nomenclature, classification, preparation, physical and chemical properties of amines, cyanides and isocyanides.
- S5-O-2: To study types of heterocyclic compounds, aromatic character, resonance structures and some chemical reactions.
- S5-P-1: To provide evidence for the mechanisms of chemical processes, to determine order and molecularity, effect of catalyst and theories involved.
- S5-G-1: To study about the various types of molecular spectra like rotational spectroscopy, IR spectroscopy and Electronic spectroscopy
- S5-G-2: To know about the laws involved in photochemistry, quantum yield and some photo chemical reactions.

Course Code: BS508A

CHEMISTRY- VI :

Instrumental Methods of Analysis:

Total Hours: 45

Credits: 3

Hours/Week: 3

Course Outcomes:

- S5-E-A- I : To study about solvent extraction, principles and classification of different chromatographic methods, TLC and Paper chromatography.
- S5-E-A-II : To study about the principle, types, methods and applications of column, ion Exchange, gas and high performance liquid chromatography.
- S5-E-A-III: To know about the terms involved in spectroscopy, Lambert Beers law, instrumentation of UV Visible, IR spectrophotometers.
- S5-E-A-IV: To study about the types of electro analytical methods, interfacial method And bulk methods.

Laboratory Course :(Organic Chemistry)

CHEMISTRY – V

Total Hours: 45

Credits: 1

Hours/Week: 2

- CO1. Synthesis of organic compounds.
- CO2. Thin Layer Chromatography

Laboratory Course (Physical Chemistry):

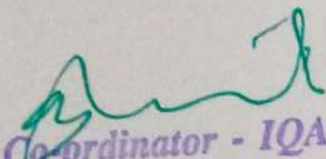
CHEMISTRY – VI

Total Hours: 45

Credits: 1

Hours/Week: 2

- CO1. A. Distribution law,


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- B. Electrochemistry
- C. Colorimetry
- D. Adsorption
- E. Physical Constants.



SEMESTER VI

Course Code: BS605

CHEMISTRY VII

Total Hours: 45 Credits: 3 Hours/Week: 3

Course Outcomes:

S6-I-1: To acquaint the student with different types of inorganic reaction mechanisms. (SN1, SN2, Trans effect).

S6-I-2: To give some knowledge about basic principles of bioinorganic chemistry, essential elements, structure and functions of hemoglobin and chlorophyll.

S6-I-3: To predict the feasibility of the reaction and stability of compounds based on HSAB principle.

S6-O-1: To study about the classification, nomenclature, chemical properties and structural elucidation of carbohydrates.

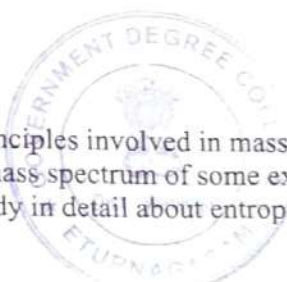
S6-O-2: To study the types, methods of synthesis and chemical properties of amino acids and proteins.

S6-P-1: Thermodynamics-I: To prove the relationship between energy, work and heat. Definition of first and second law of thermodynamics, C_p and C_v , Kirchoff's equation and Carnot's theorem

S6-G-1: To study about the principles involved in PMR with some examples.

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S6-G-2: To study about the basic principles involved in mass spectrometry, types of ions and peaks, determination of molecular weight mass spectrum of some examples.

S6-G-3: Thermodynamics-II: To study in detail about entropy its changes in different processes, Gibb's and Helmholtz functions.

Course Code: BS608A

CHEMISTRY VIII:

Medicinal Chemistry:

Total Hours: 45

Credits: 3

Hours/Week: 3

Course Outcomes:

S6-E-A-I: To study about the types of diseases, terminology involved, nomenclature, classification, therapeutic activity of drugs, ADME

S6-E-A-II: To know about enzymes and receptors, their mechanisms.

S6-E-A-III: To study about the synthesis and therapeutic activity of chemotherapeutics, drugs to treat metabolic disorders and drugs acting on the nervous system with some examples.

S6-E-A-IV: To gain some knowledge about molecular messengers and health promoting drugs.

SEMESTER VI

Course Code: BS601

Chemistry of Cosmetics & Food Processing: Total Hours: 30; Credits: 2 Hours/Week: 2

CO1.a general study on preparation and uses of some cosmetics like hair spray, sun screen lotions, creams, essential oils etc.

CO2.To improves knowledge to the students about methods of food processing and food adulteration.

Laboratory Course:

CHEMISTRY - VII

Total Hours: 45

Credits: 1

Hours/Week: 2

CO1.Qualitative and spectral analysis of organic compound

Laboratory Course (Physical Chemistry)

CHEMISTRY – VIII

Total Hours: 45

Credits: 1

Hours/Week: 2

CO1. A.Kinetics

B .Electro chemistry

C. Conductometry

a. Potentiometry

b. P_Hmetry

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(ACCREDITED WITH 'B' GRADE BY NAAC)

B.Sc Botany

COURSES OUTCOME

Semester – I Microbial Diversity of Lower Plants

- To gain knowledge about microbial diversity.
- To have the ability to utilize the concept of mushroom cultivation.
- To know about various plant diseases and their control measures.
- To understand life cycles of different algal species.
- To explore economic importance of algae & fungi.
- To know the Life cycles of bryophytes and Pteridophytes.

Semester – II Bryophytes, Pteridophytes, Gymnosperms and Palaeobotany.

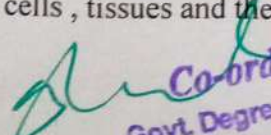
- To understand the life cycle of Gymnosperms.
- To explain about fossils and fossilization.
- To understand about geological time scale.
- To understand different types of classifications
- To know the concepts of Angiosperm Taxonomy and Nomenclature and Taxonomic resources.
- To understand the ecosystems and their components

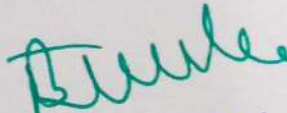
Semester – III Taxonomy of Angiosperms and Medicinal Botany

- To recognize the major groups of vascular plants and their phylogenetic relationships.
- To gain proficiency in the use of keys and identification manuals for identifying any plants to species level.
- To explore the uses of plants as medicine by traditional indigenous approaches.
- To understand different systems of medicine and their uses .
- Indigenous medicinal practices based on plant knowledge.
- To get introduced to different perspectives on treating ailments.

Semester IV – Plant Anatomy, Embryology and Palynology

- To gain knowledge of plant cells , tissues and their functions.


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- To know plant anatomy and their role in disciplines of biology.
- To know the structure and development of monocot and dicot embryos.
- To compare the function and morphology of pollen grains.
- Describe and illustrate modern and fossil spores and pollen grains.

Semester – V Cell Biology and Genetics

- To explain the structure of Cell components and their functions.
- To describe cell division in plants.
- To have knowledge of the nature and function of genes, processes of inheritance .
- To describe linkage ,crossing over and mutations .
- To understand ecological relationships and environment.

Elective: Ecology and Biodiversity

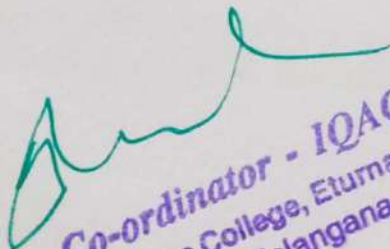
- To identify diversity of life forms in an ecosystem.
- To understand the role that biodiversity plays in conservation science

Semester – VI Plant Physiology

- To understand plant physiological processes and metabolism.
- To explain the role of micro nutrients in plant growth and development.
- To relate photosynthesis with the formation of primary and secondary metabolites.
- To know the role of nitrogen metabolism and phytohormones.

Elective: Tissue Culture and Biotechnology.

- To explain the main techniques of in vitro culture of plant cells &tissues.
- To know the methods used for the bio-production of plant secondary metabolites.
- To know the main techniques of genetic manipulation of plant organisms.


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GOVERNMENT DEGREE COLLEGE-ETURNAGARAM

DEPARTMENT OF MATHEMATICS

PROGRAMME OUTCOMES



By the end of BSc programme in Mathematics a student will:

- PO1: Be able to analyze, test, interpret and form independent judgments in both academic and non-academic contexts
- PO2: Recognize and appreciate the connections between Theory and applications
- PO3: Have an appropriate set of professional skills to ensure a productive career
- PO4: Work effectively in a multi-disciplinary environment
- PO5: Be prepared for life-long learning
- PO6: Exhibit positive attitudes and values toward the discipline, so that they can contribute to an increasingly complex and dynamic society.
- PO7: Develop effective communication skills in English and Regional/National language
- PO8: Communicate effectively with whom they are interacting and the society to make effective presentations, and give and receive clear instructions.
- PO9: Function effectively as an individual, and as a member or leader in diverse teams.

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PROGRAM SPECIFIC OUTCOMES

By the end of BSc programme in Mathematics a student will:



PSO1: Be familiar with different areas of Mathematics

PSO2: Construct abstract models using appropriate mathematical and statistical tools

PSO3: Be prepared to use Mathematics, not only in the discipline of Mathematics, but also in other disciplines and in their future endeavours

PSO4: Recognize what constitutes mathematical thinking, including the ability to produce and judge the validity of rigorous mathematical arguments

PSO5: Identify suitable existing methods of analysis, if any, and assess his/her strength and weaknesses in the context of the problem being considered

PSO6: Develop the skills necessary to formulate and understand proofs and to provide justification.

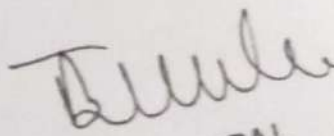
PSO7: Think critically and communicate clearly mathematical concepts and solutions to real-world problems.

PSO8: Be able to solve problems using a broad range of significant mathematical techniques.

PSO9: Engage his/her creativity in the quest for novel and elegant solutions.

PSO10: Develop an understanding of the precise language of Mathematics, and be able to integrate mathematical arguments with the uncritical thinking skills

PSO11: Be a life-long learner who is able to independently expand his/her mathematical or statistical expertise when needed.


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Course outcomes

01. By the time students complete the course Differential Calculus they realize wide ranging applications of the subject.
02. After learning the course Differential Equations the students will be equipped with the various tools to solve few types differential equations that arise in several branches of science.
03. After the completion of the course Real Analysis students will be in a position to appreciate beauty and applicability of the course.
04. On successful completion of the course Algebra students will be able to recognize algebraic structures that arise in matrix algebra, linear algebra and will be able to apply the learnt in understanding various subjects..
05. After completion of Linear Algebra students appreciate in interdisciplinary nature.
06. Students realize the importance of the subject in solving some problems of algebra and calculus.
07. Students understand the beautiful interplay between algebra and geometry.
08. Students realize the way vector calculus is used to address some of the problems of physics.

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**GOVERNMENT DEGREE COLLEGE,
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DEPARTMENT OF PHYSICS**



PROGRAMME OUTCOMES:

Students of Physical Science are expect to

- Inculcate scientific thinking and awareness.
- Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena of Physics.
- Acquire the skills in handling scientific instruments in the laboratory, and planning and performing experiments in a proper manner.
- Explain the basic scientific principles and methods.
- Analyze the applications of Mathematics to the problems in Physics and interpret the Mathematical results.

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**GOVERNMENT DEGREE COLLEGE,
ETURNAGARAM DIST: MULUGU.
DEPARTMENT OF PHYSICS**



COURSE OUTCOMES:

- By the end of first year the student should learn a thorough understanding of mechanics and Waves and Oscillations.
- By the end of second year the students will have understanding of Thermodynamics and Optics
- By the end of the third year the students should acquire thorough knowledge of electromagnetism and Modern Physics.
- By the end of the course a firm foundation in the subject is laid for further higher studies and research.

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Department of computer Science

Objective:

To inculcate enthusiasm in the core subjects Math's, Physics & Computer Science along with the languages to meet the curriculum designed by University.

Program Outcomes(PO'S)

- PO1: Generating students with overall skill ability catering wide career opportunities globally and also meeting the requirements of industries.
- PO2: Advanced learning techniques for students aiming to be a part of various research institutes were carried out by each of the science faculties.
- PO3: An ability to apply knowledge of computing and mathematics appropriate to the discipline.
- PO4: Get employment in IT fields.
- PO5: Develop a program for system based applications and web page creation for business enterprises.

Program Specific Outcomes(PSO'S):

- PSO1: An ability to identify, formulate, and develop solutions to computational challenges.
- PSO2: An ability to design, implement, and evaluate a computational system to meet desired needs within realistic constraints.
- PSO3: An ability to function effectively on teams to accomplish shared computing design, evaluation, or implementation goals.
- PSO4: An understanding of professional, ethical, legal, security, and social issues and responsibilities for the computing profession.
- PSO5: An ability to analyze impacts of computing on individuals, organizations, and society.
- PSO6: An ability to use appropriate techniques, skills, and tools necessary for computing practice.
- PSO7: An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computational systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.
- PSO8: An ability to apply design and development principles in the construction of software systems of varying complexity.

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Department of computer Science

course outcomes:

programming with c:

Learning Outcomes: Upon completion of this course students will acquire knowledge and,

1. Able to implement the algorithms and draw flowcharts for solving Mathematical and Engineering problems.
2. Demonstrate and understanding of computer programming language concepts.
3. Ability to design and develop Computer programs, analyzes, and interprets, the concept of pointers, declarations, initialization, operations on pointers and their usage.
4. Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of array of structures.
5. Student must be able to define union and enumeration user defined data types.
6. Develop confidence for self education and ability for life-long learning needed for Computer language.

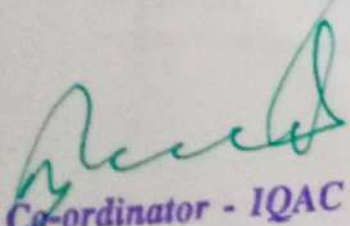
lab:

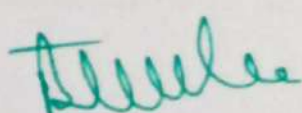
1. Develop programming skills using the fundamentals and basics of C Language.
2. Develop programs using the basic elements like control statements, Arrays and Strings Enable effective usage of arrays, structures, functions and pointers.

programming with C++

The learning objectives of this course are:

1. To understand how C++ improves C with object-oriented features.
2. To learn how to write inline functions for efficiency and performance.
3. To learn the syntax and semantics of the C++ programming language.
4. To learn how to design C++ classes for code reuse.
5. To learn how to implement copy constructors and class member functions.
6. To understand the concept of data abstraction and encapsulation.
7. To learn how to overload functions and operators in C++.
8. To learn how containment and inheritance promote code reuse in C++.
9. To learn how inheritance and virtual functions implement dynamic binding with polymorphism.
10. To learn how to design and implement generic classes with C++ templates.
11. To learn how to use exception handling in C++ programs.


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Data structures using C++

Upon completion of this course students will

1. Understand the concept of Dynamic memory management, data types, algorithms, Big O notation.
2. Understand basic data structures such as arrays, linked lists, stacks and queues.
3. Describe the hash function and concepts of collision and its resolution methods
4. Solve problem involving graphs, trees and heaps
5. Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data

DBMS

Upon completion of this course students

1. Will be able to comprehend and evaluate the role of database management systems in information technology applications within organizations.
2. Will be able to design and implement properly structured databases that match the standards based under realistic constraints and conditions.
3. Will be able to comprehend how to use Structured Query Language (SQL) to define and manipulate database information
4. Will be able to describe and develop Relational Algebra and Relational Calculus queries
5. Will be able to explain the principle of transaction management design.
6. Will be able to work in a group on the design, and implementation of a database system project.

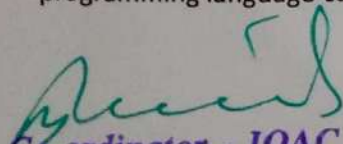
DBMS lab:

1. Experiences how to apply the theoretical information in database management systems area into practice to model and solve an engineering problem.
2. Experiences how to use SQL language for constructing and utilizing a database application.
3. Experiences how to manage data by establishing a database connection over the current programming languages.
4. Experiences on how to implement an application using a database management system.

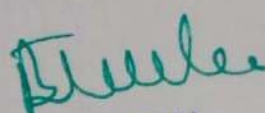
Programming in JAVA

Upon completion of this course students will,

1. have knowledge of the structure and model of the Java programming language, (knowledge)
2. Use the Java programming language for various programming technologies (understanding)
3. Develop software in the Java programming language, (application)
4. Evaluate user requirements for software functionality required to decide whether the Java programming language can meet user requirements (analysis)


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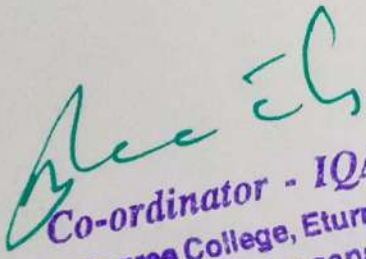
5. Propose the use of certain technologies by implementing them in the Java programming language to solve the given problem. (synthesis)
6. Choose an engineering approach to solving problems, starting from the acquired knowledge of programming and knowledge of operating systems. (evaluation)

Lab:

1. Write, compile, and execute Java programs that include basic data types and control flow constructs using J2SE
2. Write, compile and execute Java programs using object oriented class structures with parameters, constructors, and utility and calculations methods, including inheritance, test classes and exception handling.
3. Write, compile, and execute Java programs using arrays and recursion.
4. Write, compile, and execute Java programs manipulating Strings and text documents.
5. Write, compile, execute Java programs that include GUIs and event driven programming.
6. Write a final project that may be selected from among the following: applets for inclusion in web pages, applets to access enterprise data bases in robust, enterprise three level applications.

Operating systems:

1. Understand the basics of operating systems like kernel, shell, types and views of operating systems
2. Describe the various CPU scheduling algorithms and remove deadlocks.
3. Explain various memory management techniques and concept of thrashing
4. Use disk management and disk scheduling algorithms for better utilization of external memory.
5. Recognize file system interface, protection and security mechanisms.
6. Explain the various features of distributed OS like Unix, Linux, windows etc.


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Department of Computer Applications

PROGRAM OUTCOMES:

After successful completion of three year degree program in Computer Applications a student should be able to:

- PO1: Get employment in IT fields, Software, Banks, Companies, BPOs and KPOs.
- PO2: Posses competent skills in areas like MIS Databases, E-Commerce and IT.
- PO3: Develop a program for system based applications and web page creation for business enterprises.
- PSO4: To make students familiar with computer environment and operating systems.
- PSO5: To make students aware of accounting packages like tally, and develop skill among students in applications of internet in commerce education
- PSO6: Equip with skills and knowledge to excel in their future careers
- PSO7: Enter master programs like M.Com, MBA and professional programmes like C.A, CMA, C.S, etc.

Program Specific Outcomes:

- PSO1: Understand the concepts of Computer application operations.
- PSO2: Apply the current techniques, skills, and tools necessary for computing practices.
- PSO3: Ability to design, implement domain knowledge for computer programming.
- PSO4: The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.
- PSO5: Understand the basic concepts and functions of accounting, trade and computer software.

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Faculty of Commerce

Program Outcomes and Program Specific Outcomes of B.Com program

Po1: To impart the knowledge of accounting procedure and preparation final accounts of various forms business organizations.

PO2: To acquire basic conceptual knowledge on various forms of business organizations.

PO3: To acquaint the students with the concepts of Indian financial system and financial services.

PO4: To equip the students with the knowledge on various laws applicable to business in India.

Course	Course outcomes
Financial Accounting-I	To acquire conceptual knowledge of basics of accounting and preparation of final accounts of sole traders.
Business Organization & Management	To acquaint the students with the basics of commerce and business concepts and functions, forms of business organizations and functions of management
Financial Accounting - II	To impart the skills of preparation of final accounts of non-trading concern, partnership and non-profit organizations.
Business Statistics-I	To inculcate analytical and computational ability among the students.
Advanced Accounting	To enable the students to prepare financial statements of insurance and banking companies.
Income Tax-I	To equip the students with the working knowledge of both direct and indirect taxes. To acquire conceptual and legal knowledge about income tax provisions relating to computation of income from different heads with reference to the individual assessee.
Corporate Accounting	To develop the skills of recording the transactions relating to issue of shares and debentures, branches of department manually and using computers
Business Statistics - II	To impart knowledge on application of statistical tools and techniques in business decision making and use MS-Excel in interpretation of statistical data.
Entrepreneurship Development	To understand the various concepts relating entrepreneurship development.
Business Law	To understand basics of contract act, sale of goods act, ITRS and legal provisions applicable for establishment and management and winding up of companies in India.
Banking Theory & practice	To impart knowledge on the development banking system in India and functioning of central bank and commercial banks in India.
Auditing	To understand meaning and elements of auditing and gain knowledge for execution of audit.


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Cost Accounting	To train the students in finding the cost of products using different methods of costing. To impart conceptual knowledge of costing and management accounting.
Managerial Accounting	To equip basic skills of analysis of financial information to be useful to the management.
Company Law	To impart knowledge on the provisions provided in Companies Act 2013 regarding company formation, management and dissolutions.
Human Resource Management	To understand the important concepts of human resource management.
Preparation of Tax Returns	To enable the students to prepare the tax returns of an individual assessee.
Advertising	To understand the concept of advertising, advertising methods etc.
Computerized Accounting	To enable students to prepare final accounts using accounting package.
Financial Institutions and Markets	To impart the knowledge on banking and insurance concepts and to gain an insight on financial services.
Organization Behavior	To understand the personality traits, group behavior and conflict management

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Department of Computer Applications

Course Outcomes:

FUNDAMENTALS OF INFORMATION TECHNOLOGY

1. Describes the computer and its general features
2. will be able to understand basic computer hardware
3. Defines hardware and software concepts
4. Defines input and output units of Computer
5. Knows the terms of motherboard, CPU, RAM, ROM, BIOS, CMOS and can express with their own words.. Identifies and explains computers hard wares
6. describes the communication units of computers.

Lab outcomes:

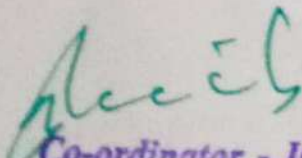
1. Design a document using MS_WORD.
2. Demonstrate and compute the data using Spread Sheet.
3. Create, edit, save presentations, and Format presentations

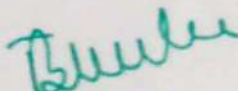
Programming in C And C++


1. Understanding a functional hierarchical code organization.
2. Ability to define and manage data structures based on problem subject domain.
3. Ability to work with textual information, characters and strings.
4. Ability to work with arrays of complex objects.
5. Understanding a concept of object thinking within the framework of functional model.
6. Ability to handle possible errors during program execution.

Relational Database Management System

1. Describe DBMS architecture, physical and logical database designs, database modeling, relational, hierarchical and network models.
2. Identify basic database storage structures and access techniques such as file organizations, indexing methods including B-tree, and hashing.


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- 
3. Learn and apply Structured query language (SQL) for database definition and database manipulation.
 4. Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database.
 5. Understand various transaction processing, concurrency control mechanisms and database protection mechanisms.

lab

1. Experiences how to apply the theoretical information in database management systems area into practice to model and solve an engineering problem.
2. Experiences how to use SQL language for constructing and utilizing a database application.
3. Experiences how to manage data by establishing a database connection over the current programming languages.
4. Experiences on how to implement an application using a database management system.

Web Technologies

After completing the Course, students will

1. Explain the history of the internet and related internet concepts that are vital in understanding web development.
2. Discuss the insights of internet programming and implement complete application over the web.
3. Demonstrate the important HTML tags for designing static pages and separate design from content using Cascading Style sheet.
4. Utilize the concepts of JavaScript and Java
5. Use web application development software tools i.e. PHP and XML etc. and identify the environments currently available on the market to design web sites.

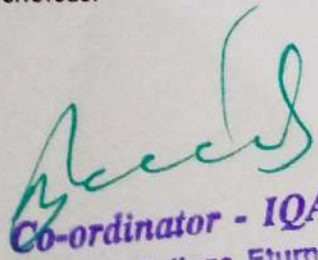
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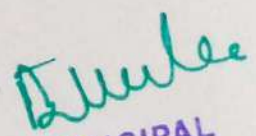
1. Design and implement dynamic websites with good artistic sense of designing
2. Have a Good grounding of Web Application Terminologies, Internet Tools, E – Commerce and other web services

Ecommerce Course outcome:

After completing the Course, students will

1. Analyze the impact of E-commerce on business models and strategy.
2. Describe the major types of E-commerce.
3. Explain the process that should be followed in building an E-commerce presence.
4. Identify the key security threats in the E-commerce environment.
5. Describe how procurement and supply chains relate to B2B E-commerce.
6. Analyze real business cases regarding their e-business strategies and transformation processes and choices.


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Object Oriented programming language

After completing the Course, students will learn:

1. Articulate the principles of object-oriented problem solving and programming.
2. Outline the essential features and elements of the C++ programming language.
3. Explain programming fundamentals, including statement and control flow and recursion.
4. Apply the concepts of class, method, constructor, instance, data abstraction, function abstraction, inheritance, overriding, overloading, and polymorphism.
5. Program with basic data structures using array
6. Program using objects and data abstraction, class, and methods in function abstraction.

Lab

1. Analyze, write, debug, and test basic C++ codes using the approaches introduced in the course.
2. Analyze problems and implement simple C++ applications using an object-oriented approach.

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Specific Outcomes of the History

- Students are made to understand the History of the Telangana, History of the South India , History of the India, History of the modern world.
- Students are Explained the importance of the History and made them to preserve Local History and monuments around.
- For the Awareness in Students on the Local History like Bathukamma Bonalu Muharram and medaram (sammakasaralammajathara) Tribal goddessess fair.
- History is to Create the Awareness in Students strong human efforts in different fields and perspectives brought in human life, Culture and Civilization, by Assessing it's heritage and it's Significance A nation makes necessary changes According to the changing times in past to present to the future.
- To create the Awareness among the students that History plays a key role in all the Competitive Examinations as a part of general studies paper getting more questions from it since The subject History is a Deciding factor in getting Government jobs.
- To create the Awareness among the students on the Research projects.

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Learning outcomes of the Course

- History has noble Aims such as Forstoring , Historical Knowledge and promoting students not only Academic Activities such as Higher learning and research,But Also Competitive in Nature.
- History has also been attempting to focus on the cultural heritage and traditions of Telangana and India so as to imbibe in the minds of Students
- The cultural values of the Region and this nation through class room lectures and Various Academic Exercises through different kinds of Lectures seminars,Quizes ,study projects ,Historical field trips etc..This would help to prepare the students to play great role in Regional ,National and International Area.
- History has always been striving to Achieve Excellence in Academic Activities ,Students talents should be properly challanise by shaping them properly to become distinguished men in society and by offering them training in Academic Exercises.
- History has been Conducting programs for students to Enable them to Appear for the Union and Telangana public Service commission /Andhrapradesh service commission Examinations and to get selected in various Government and non Governmental Services.
- History efforts will be in the direction of creating more and more scholars and intellectuals to service the people and the Nation's in various ways for the students.

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PROGRAM OUTCOMES

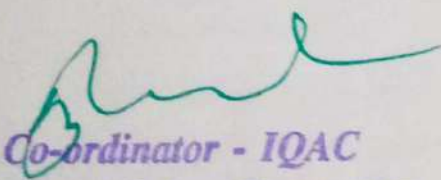
The study of Economics

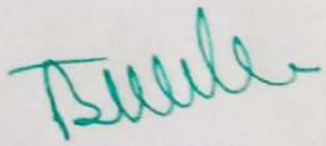
1. Provides valuable knowledge for making decisions in everyday life.
2. Helps people to plan all the aspects of life systematically like income, expenditure balancing in the family member's time management, work management regarding saving investment etc.
- 3: Economics is the study of how societies, governments, businesses, households, and individuals allocate their scarce resources.

PROGRAM SPECIFIC OUTCOMES

Micro Economics: by studying the micro Economics Students will be able to understand supply and demand analysis, Define the consumer behavior, production, costs etc. different conditions . Integrate the concepts of cost and revenue and analyze the status of firms. Classify types of market structures- Process of determination of prices under different market structures. Analyze the decisions of firms aimed at realizing objectives. Evaluate the pricing strategies of firms under different market conditions.

Macro Economics : Identify different structures of an economy and describes how the income flows among different sectors of the economy. To get knowledge regarding the concept of national income, employment theories (classical, modern), investment, consumption, interest theories, supply of money and demand for money, inflation and business cycle. Explain theorems of Income and employment. Understand the concepts of investment and capital –Determinants of investment and capital. Define what is money and classify its functions – Related theorems of supply of money with indian money supply. Analyze the causes and effects of inflation. suggest solutions to control money. Integrate various parameters and analyse the macro economic status of Indian economy. Public Finance Student understood the various concepts of public finance like public revenue, public expenditure, public debt, federal finance, taxes etc.


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1.

Development Economics: Define the concepts of Economic Growth and Development - Construct the measurement of Economic Development. Interpret the role of State and market in economic development. Relate the factors that affect economic development - Distinguish between developed and developing countries. Understand theories of Demographic transition. Interpret theories of Economic development. Interpret theories of Under Development.

INDIAN ECONOMY: Describe the structure of Indian economy - Resource base - Size, composition of population and analyse its effects on economy. Explain the role and importance of Agriculture in Indian Economy - Relate the growth and changes in Indian Agriculture. Evaluate the problems of Indian Agriculture sector. Describe the importance of Industry and analyse the trends in Industrial production of Indian Economy - Analyse the impact of Industrial policy resolutions. Evaluate planning in India - Five year plans objectives, strategies. Evaluate the performance of Indian planning. Analyse the role of service sector in Indian economy - Trends of service sector growth and contribution of important sectors, Evaluate the impact of economic reforms liberalization, Privatization and Globalisation.

INTERNATIONAL ECONOMICS: Explain the classical and modern theories of International trade absolute advantage and comparative advantage. Describe the role of international trade in Economic Growth. Analyse how the terms of trade change and effect economies. Explain different barriers to international trade and analyse how the quantitative and qualitative restrictions on trade impact economies. Construct Balance of Payments and analyse the causes for disequilibrium in Balance of Payments and suggest measures to correct it. Evaluate composition and direction of international trade of India. Evaluate the export and import policies of Indian Economy. Integrate and evaluate the status of international trade of Indian Economy in the present context.

TELANGANA ECONOMY: Describe the basic features of Telangana Economy. Construct the demographics and occupational distribution of Telangana. Analyse the trends in rates of growth of Gross State Domestic Product (GSDP), Per capita Income of Telangana. Analyse the problems of Poverty, unemployment and concentration of economic power. Describe the features of Agriculture in Telangana and analyse trends of growth. Analyse the trends in agricultural productivity and evaluate the impact of Mission Kakatiya. Describe the structure of Telangana Industry and Service sector. Evaluate the impact of TS iPASS on industrial growth.

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తెలుగు -ముఖ్యమైన ఫలితాలు

డిగ్రీ స్థాయిలో ద్వితీయ భాషగా తెలుగు బోధన విద్యార్థులకు అనేక విధాలుగా ప్రయోజనకరంగా ఉంటుంది.

1.విద్యార్థులకు ప్రాచీన సాహిత్యం, ఆధునిక సాహిత్యం,వచన కవిత్వం, భాషాభాగాలు,వ్యాకరణం,చందస్సు మొదలైన అంశాల పట్ల అవగాహన కలిగే విధంగా సిలబస్ రూపకల్పన జరిగింది.

2.ఆంధ్రమహాభారతం,భాగవతం,రామాయణం,ఇతర కావ్యాలు మొదలైన వాటి నుండి గ్రహించబడిన పాఠ్యాంశాల వలన విద్యార్థులలో వ్యక్తిత్వవికాసం పెంపొందడమే కాకుండా వారికి ఆచారవ్యవహారాలు,మన సంస్కృతి గొప్పదనం ,మాటనేర్పరితనం,దేశభక్తి ,గురుభక్తి,పితృభక్తి వృద్ధిపొందుతుంది.

3.మాతృభాష పట్ల అభిమానముండి భాషను రక్షించుకుంటే విద్యార్థులలో భావ దారిద్ర్యం పోతుంది.



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తెలుగు అధ్యయనం-ఫలితాలు

డిగ్రీ స్థాయిలో తెలుగును అధ్యయనం చేయడం వలన విద్యార్థికి అనేక ప్రయోజనాలు కలవు.

1. ఆయా పాఠ్యాంశాలలో పరిచయమైన పాత్రల ఉదాత్తతను విద్యార్థి ఆకళింపు చేసుకుంటే అతనిలో ఉత్తమగుణాలు వృద్ధిపొందుతాయి.
2. మాతృభాషలో ప్రావీణ్యం సంపాదిస్తే ఇతర భాషలు సులభంగా నేర్చుకోవచ్చు.
3. భాషోచ్ఛరణలో స్పష్టత ఉంటే ఉద్యోగాలకు జరిగే మాఖిక పరీక్షలలో సులభంగా ఎన్నికయ్యే అవకాశముంటుంది.
4. యు.పి.యస్.సి పరీక్షలలో కూడా తెలుగును ప్రత్యేకాంశంగా తీసుకొని చదివే అవకాశముంది.
5. పి.జి.స్థాయిలో తెలుగును చదివితే పత్రికరంగం, సినిరంగం, టీ.వి.మొదలైన వాటిలో ఉపాధి లభించడమే కాకుండా జూనియర్ లెక్చరర్, అసిస్టెంట్ ప్రొఫెసర్ లాంటి ఉద్యోగాలను పొందవచ్చును.
6. వివిధ కవుల కావ్యాలు, వాటిలోని వర్ణనలు అధ్యయనం చేస్తే విద్యార్థులలో సృజనాత్మకత వృద్ధి చెందుతుంది.



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PROGRAM OUTCOME: To make the students able to learn English for comprehension, communication, competency and career growth.

PROGRAM SPECIFIC OUTCOME

> Competency of students in the four basic skills of language - LSRW.

Listening: Accuracy in listening through audio/video aids, clear pronunciation by the instructor, peer readingwith focus and selective approach.

Speaking: Accuracy in speaking through conversation (formal/casual), small talks, debates, peer chattingwith good accent and modulation.

Reading: Accuracy in reading through reading aloud in classroom situation, literary gatherings, college assemblymaintaining the right pace, rhythm and pause.

Writing: Accuracy in writing through rigorous practice in the form of short stories, articles, personal diaries, academic profilewith legible and well structured sentence patterns.

OUTCOME: Department of English has become successful in accomplishing the target stated in the PO/PSO and CO.

Students - JIGNASA STATE LEVEL 'CERTIFICATE OF COMMENDATION' (2018-19)

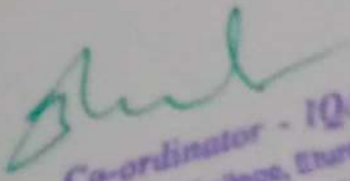
> With a view to encourage language learning and enhance research skills among students, the platform extended by Commissioner of Collegiate Education through JIGNASA was put to maximum use the faculty of English in moulding the students to suit the requirements of the day. 6 students from Science/Arts/Commerce groups have been selected for the JIGNASA program 2018-19 to make research on the linguistic difficulties of the learners studying in High School, Junior College both Telugu and English media, government and private. College students have made effective use of the available resources in accumulating information from the target group. They could find a change in their communication and when the research project was selected for presentation at the state level their happiness knew no bounds. Their levels of comprehension, communication and competence underwent a remarkable change when exposed to perform with peer learners from different part of the state.

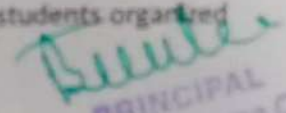
Contract Lecturers - ONE DAY WORKSHOP ON 'SOFT SKILLS' - March 2019.

> Students' competency in language acquisition and use depends to a major extent on the communication skills of the teacher. With a view to help the contract faculty exclusively from departments other than English, a 'One Day Workshop on Soft Skills' with the permission of Commissioner of Collegiate Education and financial assistance of the ITDA, Eturnagaram was conducted for motivating the contract lecturers on activities related to LSRW.

Teachers/Scholars - TWO DAY NATIONAL SEMINAR ON 'SOFT SKILLS' - February 2020

> Keeping in view of the topography of the institution Department of English with the sole intention of providing exposure to both faculty and students organized


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a 'Two Day National Seminar on Soft Skills for Conventional and Professional Courses' with the permission and financial assistance of Commissioner of Collegiate Education. Resource persons from well reputed institutions participated in the seminar. As many as 100 papers were presented by learned faculty and upcoming research scholars. This has motivated college students and nearly 6 students presented papers on their own.

Thus the purpose of English for enrichment, advancement, accomplishment and excellence as envisioned by the syllabus designers was brought to fruition by the Department of English.


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COURSE OUTCOME

Comprehension : Students' comprehensive style must undergo a remarkable change from the basic level to the advanced level by the time they leave the institution after the completion of the course. Syllabus designed by the course writers has to be manipulated effectively for the teacher during the process of interaction to good use in consonance with the grasping levels of the learners.

Communication : Students who fear speaking in English at the entry level of the course should find themselves in a comfortable position using English with confidence and courage at the time of exit.

Competency: Students learn English as part of curriculum for academic growth in the institution and for personal and professional growth outside the institution. As such necessary care has to be taken by the instructor in moulding the available textual resources for enhancing the competency levels of the learners.

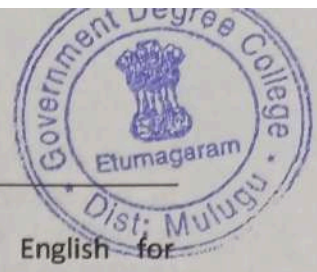
Employability: Students at the end of the course either seek employment or continue with higher studies. But language becomes a tool of perfection in both these areas of accomplishment and advancement.

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PROGRAM OUTCOME: To make the students able to learn English for comprehension, communication, competency and career growth.

PROGRAM SPECIFIC OUTCOME

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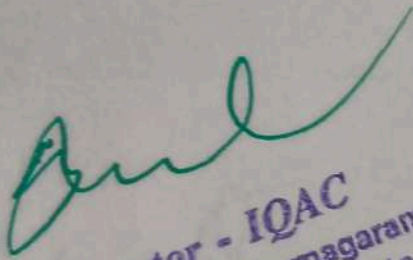
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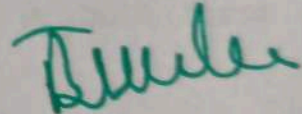
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COURSE OUTCOME

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GOVERNMENT DEGREE COLLEGE, ETURNAGARAM
MULUGU DISTRICT – 506165
(ACCREDITED WITH 'B' GRADE BY NAAC)

B.Sc Botany

COURES OUTCOME

Semester – I Microbial Diversity of Lower Plants

- To gain knowledge about microbial diversity.
- To have the ability to utilize the concept of mushroom cultivation.
- To know about various plant diseases and their control measures.
- To understand life cycles of different algal species.
- To explore economic importance of algae & fungi.
- To know the Life cycles of bryophytes and Pteridophytes.

Semester – II Bryophytes, Pteridophytes, Gymnosperms and Palaeobotany.

- To understand the life cycle of Gymnosperms.
- To explain about fossils and fossilization.
- To understand about geological time scale.
- To understand different types of classifications
- To know the concepts of Angiosperm Taxonomy and Nomenclature and Taxonomic resources.
- To understand the ecosystems and their components

Semester – III Taxonomy of Angiosperms and Medicinal Botany

- To recognize the major groups of vascular plants and their phylogenetic relationships.
- To gain proficiency in the use of keys and identification manuals for identifying any plants to species level.
- To explore the uses of plants as medicine by traditional indigenous approaches.
- To understand different systems of medicine and their uses .
- Indigenous medicinal practices based on plant knowledge.
- To get introduced to different perspectives on treating ailments.

Semester IV – Plant Anatomy, Embryology and Palynology

- To gain knowledge of plant cells , tissues and their functions.

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- To know plant anatomy and their role in disciplines of biology.
- To know the structure and development of monocot and dicot embryos.
- To compare the function and morphology of pollen grains.
- Describe and illustrate modern and fossil spores and pollen grains.

Semester – V Cell Biology and Genetics

- To explain the structure of Cell components and their functions.
- To describe cell division in plants.
- To have knowledge of the nature and function of genes, processes of inheritance .
- To describe linkage ,crossing over and mutations .
- To understand ecological relationships and environment.

Elective: Ecology and Biodiversity

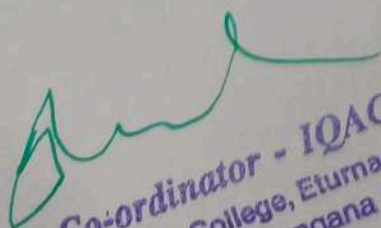
- To identify diversity of life forms in an ecosystem.
- To understand the role that biodiversity plays in conservation science

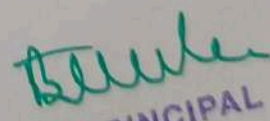
Semester – VI Plant Physiology

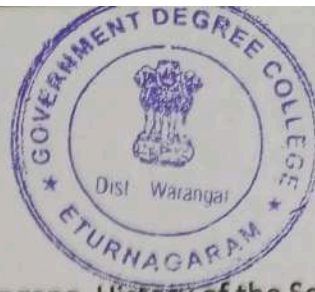
- To understand plant physiological processes and metabolism.
- To explain the role of micro nutrients in plant growth and development.
- To relate photosynthesis with the formation of primary and secondary metabolites.
- To know the role of nitrogen metabolism and phytohormones.

Elective: Tissue Culture and Biotechnology.

- To explain the main techniques of in vitro culture of plant cells &tissues.
- To know the methods used for the bio-production of plant secondary metabolites.
- To know the main techniques of genetic manipulation of plant organisms.


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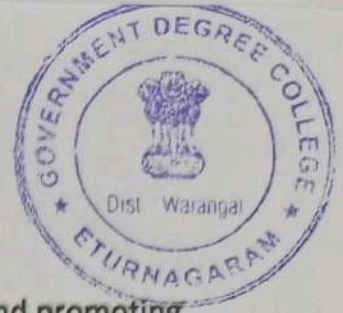


Specific Outcomes of the History

- Students are made to understand the History of the Telangana, History of the South India , History of the India, History of the modern world.
- Students are Explained the Importance of the History and made them to preserve Local History and monuments around.
- For the Awareness in Students on the Local History like Bathukamma Bonalu Muharram and medaram (sammakasaralammajathara) Tribal goddessess fair.
- History is to Create the Awareness in Students strong human efforts in different fields and perspectives brought in human life, Culture and Civilization, by Assessing it's heritage and it's Significance A nation makes necessary changes According to the changing times in past to present to the future.
- To create the Awareness among the students that History plays a key role in all the Competitive Examinations as a part of general studies paper getting more questions from it since The subject History is a Deciding factor in getting Government jobs.
- To create the Awareness among the students on the Research projects.

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Learning outcomes of the Course

- History has noble Aims such as Forstoring , Historical Knowledge and promoting students not only Academic Activities such as Higher learning and research,But Also Competitive in Nature.
- History has also been attempting to focus on the cultural heritage and traditions of Telangana and India so as to imbibe in the minds of Students
- The cultural values of the Region and this nation through class room lectures and Various Academic Exercises through different kinds of Lectures seminars,Quizes ,study projects ,Historical field trips etc..This would help to prepare the students to play great role in Regional ,National and International Area.
- History has always been striving to Achieve Excellence in Academic Activities ,Students talents should be properly challanise by shaping them properly to become distinguished men in society and by offering them training in Academic Exercises.
- History has been Conducting programs for students to Enable them to Appear for the Union and Telangana public Service commission /Andhrapradesh service commission Examinations and to get selected in various Government and non Governmental Services.
- History efforts will be in the direction of creating more and more scholars and intellectuals to service the people and the Nation's in various ways for the students.

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Department of zoology

Program Outcomes (POs)

PO1: This program can be used for Higher Education, Research and self Employability to the students.

PO2: Knowledge and practical experiences in biological science knowledge in Aquaculture, Apiculture, Agriculture and Medicine and clinical pathology which can be useful for their self Employability

PO3: Knowledge of the Animal Science- Animal diversity of invertebrates and Vertebrates, Cell biology, Taxonomy, Embryology, Animal Physiology, Ecology, Zoogeographical concepts, and Genetics and Molecular Biology, Immunology, Animal biotechnology can be useful for the Post graduation level Education and also for Research.

PO4: Knowledge of fisheries management, culturing of silkworms and Honey bees which can be useful frothier self-employment, higher Education and Research.

PROGRAM SPECIFIC OUTCOMES OF ZOOLOGY (PSOs)

PSO1: Students can understand the nature and basic concepts of Animal Science- Animal diversity of invertebrates and Vertebrates, Cell biology, Taxonomy, Embryology, Animal Physiology, Ecology, Zoogeographical concepts, and Genetics and Molecular Biology, Immunology, Animal biotechnology. Students can increase their understanding levels which can be used for further studies in Animal sciences.

PSO2: Learners can get the knowledge and understanding the fields of Fisheries, Poultry management, Apiculture and sericulture. Students can be experienced in frequent visits of culturing areas which can be useful for their self Employability.

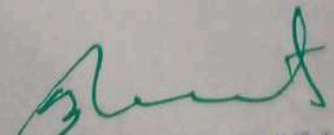
PSO3: Analyzing the relationship between animals, plants and micro-organisms.

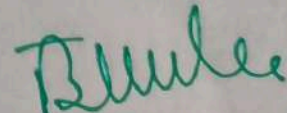
PSO4: Performs experimental procedures as per laboratory standards in the areas of invertebrates and Vertebrates, Cell biology, Taxonomy, Embryology, Animal Physiology, Ecology, Zoogeographical concepts, and Genetics and Molecular Biology, Immunology, Animal biotechnology.

PSO5: Students can apply of biological science knowledge in Aquaculture, Apiculture, Agriculture and Medicine and clinical pathology.

Course outcomes of zoology (Cos)

CO1: Animal diversity: To prepare students for acquiring knowledge regarding biology at the systems and organizational level. Able to assess the scope of animal biology and select particular areas for further study.


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CO2: Ecology: To understand environmental functions and their relations to the human life. Environmental pollution and their effects and how to overcome the problems. Students can take environmental science as a subject for further studies.

CO3: Animal physiology: The major aim of this course is to provide students with a basic understanding of the fundamental process and mechanisms that serve and control the various function of body.

CO4: Zoogeography: To understand the distribution of animals on earth in different regions. In addition to mapping the present distribution of animal species it also gives the knowledge of the evolutionary history and relationships of the animals.

CO5: Developmental biology: To understand the events that led up to and comprises the process of fertilization. Be able to know about the micromeres, micromeres, misnomers which form into specific cells in the embryo. This course provides scope to do research on different animal's developmental process.

CO6: Animal behavior: The study of social behavior and organization in animals. Socio biology has emerged as a new approach to the study of animal behavior. The study of animal behavior has led to the modern synthetic view of animals living and behaving in their natural environment. It is final objective of all other branches of biology.

CO7: Evolution: to show how natural selection ultimately underpins all biological processes and how evolution has generated biological diversity. To outline the major transition in evolution from origin of life to hominid evolution.

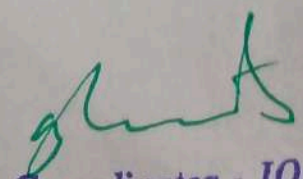
CO8: Genetics: To understand how inheritance of characters occur from parents to offspring. And also to deal with genetic disorders which during inheritance. Students can do further studies on how to overcome the problems of genetic disorders.

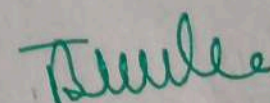
CO9: Fisheries, Apiculture and Sericulture: To promote effective fisheries management and improving standards of fisheries management. To provide technical and general knowledge necessary for fisheries management, Culturing of silkworms and Honey bees which can be useful for the for their self-employment.

Molecular Biology: Student can understand, differentiate and analyze the knowledge of DNA, RNA and Proteins participate in various metabolic activities. This can be useful for their higher education and Research.

Immunology: Students can get the knowledge of Immunology of humans. They can analyze the different pathogenic invaders and their effect on human health. The knowledge and analysis of Immune system can be useful for their personal hygiene and also useful for higher studies and research.

Animal Biotechnology: This fascinating emerging field knowledge can be useful for the Research especially.


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Aquaculture: Knowledge from the study of aquaculture can be useful to the students for the Environmental protection and proper management of Natural water resources.

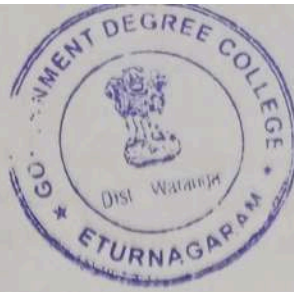


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Department of zoology

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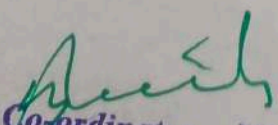
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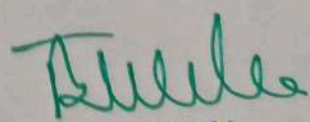
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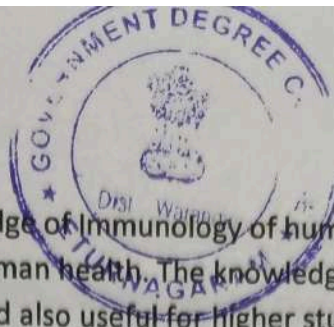
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Faculty of Commerce

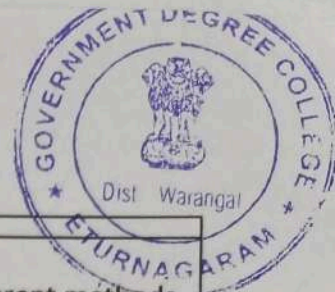
Program Outcomes and Program Specific Outcomes of B.Com program

- Po1: To impart the knowledge of accounting procedure and preparation final accounts of various forms business organizations.
- PO2: To acquire basic conceptual knowledge on various forms of business organizations.
- PO3: To acquaint the students with the concepts of Indian financial system and financial services.
- PO4: To equip the students with the knowledge on various laws applicable to business in India.

Course	Course outcomes
Financial Accounting-I	To acquire conceptual knowledge of basics of accounting and preparation of final accounts of sole traders.
Business Organization & Management	To acquaint the students with the basics of commerce and business concepts and functions, forms of business organizations and functions of management
Financial Accounting - II	To impart the skills of preparation of final accounts of non-trading concern, partnership and non-profit organizations.
Business Statistics-I	To inculcate analytical and computational ability among the students.
Advanced Accounting	To enable the students to prepare financial statements of insurance and banking companies.
Income Tax-I	To equip the students with the working knowledge of both direct and indirect taxes. To acquire conceptual and legal knowledge about income tax provisions relating to computation of income from different heads with reference to the individual assessee.
Corporate Accounting	To develop the skills of recording the transactions relating to issue of shares and debentures, branches of department manually and using computers
Business Statistics - II	To impart knowledge on application of statistical tools and techniques in business decision making and use MS-Excel in interpretation of statistical data.
Entrepreneurship Development	To understand the various concepts relating entrepreneurship development.
Business Law	To understand basics of contract act, sale of goods act, ITRS and legal provisions applicable for establishment and management and winding up of companies in India.
Banking Theory & practice	To impart knowledge on the development banking system in India and functioning of central bank and commercial banks in India.
Auditing	To understand meaning and elements of auditing and gain knowledge for execution of audit.

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Cost Accounting	To train the students in finding the cost of products using different methods of costing. To impart conceptual knowledge of costing and management accounting.
Managerial Accounting	To equip basic skills of analysis of financial information to be useful to the management.
Company Law	To impart knowledge on the provisions provided in Companies Act 2013 regarding company formation, management and dissolutions.
Human Resource Management	To understand the important concepts of human resource management.
Preparation of Tax Returns	To enable the students to prepare the tax returns of an individual assessee.
Advertising	To understand the concept of advertising, advertising methods etc.
Computerized Accounting	To enable students to prepare final accounts using accounting package.
Financial Institutions and Markets	To impart the knowledge on banking and insurance concepts and to gain an insight on financial services.
Organization Behavior	To understand the personality traits, group behavior and conflict management

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Department of Computer Applications

Course Outcomes:

FUNDAMENTALS OF INFORMATION TECHNOLOGY

1. Describes the computer and its general features
2. will be able to understand basic computer hardware
3. Defines hardware and software concepts
4. Defines input and output units of Computer
5. Knows the terms of motherboard, CPU, RAM, ROM, BIOS, CMOS and can express with their own words.. Identifies and explains computers hard wares
6. describes the communication units of computers.

Lab outcomes:

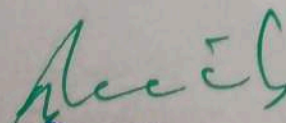
1. Design a document using MS_WORD.
2. Demonstrate and compute the data using Spread Sheet.
3. Create, edit, save presentations, and Format presentations

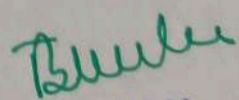
Programming in C And C++

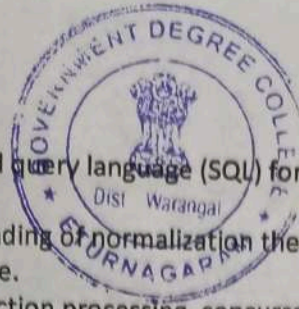
1. Understanding a functional hierarchical code organization.
2. Ability to define and manage data structures based on problem subject domain.
3. Ability to work with textual information, characters and strings.
4. Ability to work with arrays of complex objects.
5. Understanding a concept of object thinking within the framework of functional model.
6. Ability to handle possible errors during program execution.

Relational Database Management System

1. Describe DBMS architecture, physical and logical database designs, database modeling, relational, hierarchical and network models.
2. Identify basic database storage structures and access techniques such as file organizations, indexing methods including B-tree, and hashing.


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3. Learn and apply Structured query language (SQL) for database definition and database manipulation.
4. Demonstrate an understanding of normalization theory and apply such knowledge to the normalization of a database.
5. Understand various transaction processing, concurrency control mechanisms and database protection mechanisms.

lab

1. Experiences how to apply the theoretical information in database management systems area into practice to model and solve an engineering problem.
2. Experiences how to use SQL language for constructing and utilizing a database application.
3. Experiences how to manage data by establishing a database connection over the current programming languages.
4. Experiences on how to implement an application using a database management system.

Web Technologies

After completing the Course, students will

1. Explain the history of the internet and related internet concepts that are vital in understanding web development.
2. Discuss the insights of internet programming and implement complete application over the web.
3. Demonstrate the important HTML tags for designing static pages and separate design from content using Cascading Style sheet.
4. Utilize the concepts of JavaScript and Java
5. Use web application development software tools i.e. PHP and XML etc. and identify the environments currently available on the market to design web sites.

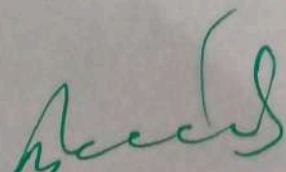
lab:

1. Design and implement dynamic websites with good artistic sense of designing
2. Have a Good grounding of Web Application Terminologies, Internet Tools, E – Commerce and other web services

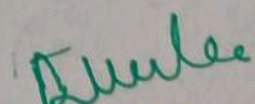
Ecommerce Course outcome:

After completing the Course, students will

1. Analyze the impact of E-commerce on business models and strategy.
2. Describe the major types of E-commerce.
3. Explain the process that should be followed in building an E-commerce presence.
4. Identify the key security threats in the E-commerce environment.
5. Describe how procurement and supply chains relate to B2B E-commerce.
6. Analyze real business cases regarding their e-business strategies and transformation processes and choices.


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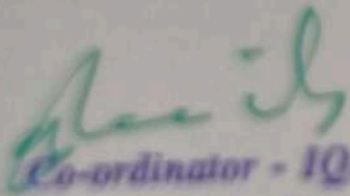
Object Oriented programming language

After completing the Course, students will learn:

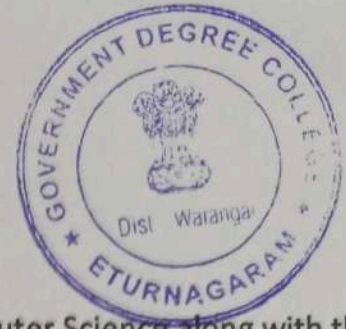
1. Articulate the principles of object-oriented problem solving and programming.
2. Outline the essential features and elements of the C++ programming language.
3. Explain programming fundamentals, including statement and control flow and recursion.
4. Apply the concepts of class, method, constructor, instance, data abstraction, function abstraction, inheritance, overriding, overloading, and polymorphism.
5. Program with basic data structures using array
6. Program using objects and data abstraction, class, and methods in function abstraction.

Lab

1. Analyze, write, debug, and test basic C++ codes using the approaches introduced in the course.
2. Analyze problems and implement simple C++ applications using an object-oriented approach.


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Department of computer Science

Objective:

To inculcate enthusiasm in the core subjects Math's, Physics & Computer Science along with the languages to meet the curriculum designed by University.

Program Outcomes(PO'S)

PO1: Generating students with overall skill ability catering wide career opportunities globally and also meeting the requirements of industries.

PO2: Advanced learning techniques for students aiming to be a part of various research institutes were carried out by each of the science faculties.

PO3: An ability to apply knowledge of computing and mathematics appropriate to the discipline.

PO4: Get employment in IT fields.

PO5: Develop a program for system based applications and web page creation for business enterprises.

Program Specific Outcomes(PSO'S):

PSO1: An ability to identify, formulate, and develop solutions to computational challenges.

PSO2: An ability to design, implement, and evaluate a computational system to meet desired needs within realistic constraints.

PSO3: An ability to function effectively on teams to accomplish shared computing design, evaluation, or implementation goals.

PSO4: An understanding of professional, ethical, legal, security, and social issues and responsibilities for the computing profession.

PSO5: An ability to analyze impacts of computing on individuals, organizations, and society.

PSO6: An ability to use appropriate techniques, skills, and tools necessary for computing practice.

PSO7: An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computational systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.

PSO8: An ability to apply design and development principles in the construction of software systems of varying complexity.

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Co-ordinator - IQAC

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Department of computer Science

course outcomes:

programming with c:

Learning Outcomes: Upon completion of this course students will acquire knowledge and,

1. Able to implement the algorithms and draw flowcharts for solving Mathematical and Engineering problems.
2. Demonstrate and understanding of computer programming language concepts.
3. Ability to design and develop Computer programs, analyzes, and interprets, the concept of pointers, declarations, initialization, operations on pointers and their usage.
4. Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of array of structures.
5. Student must be able to define union and enumeration user defined data types.
6. Develop confidence for self education and ability for life-long learning needed for Computer language.

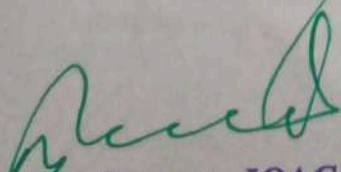
lab:

1. Develop programming skills using the fundamentals and basics of C Language.
2. Develop programs using the basic elements like control statements, Arrays and Strings Enable effective usage of arrays, structures, functions and pointers.

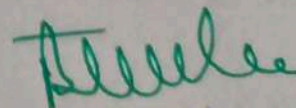
programming with C++

The learning objectives of this course are:

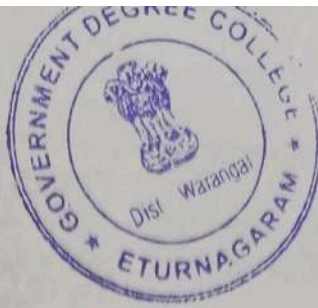
1. To understand how C++ improves C with object-oriented features.
2. To learn how to write inline functions for efficiency and performance.
3. To learn the syntax and semantics of the C++ programming language.
4. To learn how to design C++ classes for code reuse.
5. To learn how to implement copy constructors and class member functions.
6. To understand the concept of data abstraction and encapsulation.
7. To learn how to overload functions and operators in C++.
8. To learn how containment and inheritance promote code reuse in C++.
9. To learn how inheritance and virtual functions implement dynamic binding with polymorphism.
10. To learn how to design and implement generic classes with C++ templates.
11. To learn how to use exception handling in C++ programs.


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Data structures using C++

Upon completion of this course students will

1. Understand the concept of Dynamic memory management, data types, algorithms, Big O notation.
2. Understand basic data structures such as arrays, linked lists, stacks and queues.
3. Describe the hash function and concepts of collision and its resolution methods
4. Solve problem involving graphs, trees and heaps
5. Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data

DBMS

Upon completion of this course students

1. Will be able to comprehend and evaluate the role of database management systems in information technology applications within organizations.
2. Will be able to design and implement properly structured databases that match the standards based under realistic constraints and conditions.
3. Will be able to comprehend how to use Structured Query Language (SQL) to define and manipulate database information
4. Will be able to describe and develop Relational Algebra and Relational Calculus queries
5. Will be able to explain the principle of transaction management design.
6. Will be able to work in a group on the design, and implementation of a database system project.

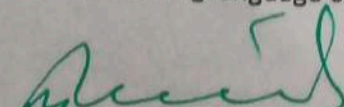
DBMS lab:

1. Experiences how to apply the theoretical information in database management systems area into practice to model and solve an engineering problem.
2. Experiences how to use SQL language for constructing and utilizing a database application.
3. Experiences how to manage data by establishing a database connection over the current programming languages.
4. Experiences on how to implement an application using a database management system.

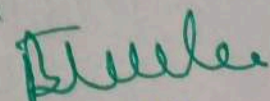
Programming in JAVA

Upon completion of this course students will,

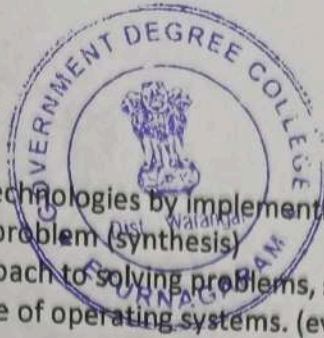
1. have knowledge of the structure and model of the Java programming language, (knowledge)
2. Use the Java programming language for various programming technologies (understanding)
3. Develop software in the Java programming language, (application)
4. Evaluate user requirements for software functionality required to decide whether the Java programming language can meet user requirements (analysis)


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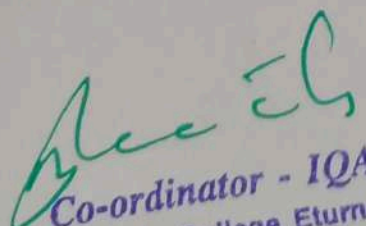
5. Propose the use of certain technologies by implementing them in the Java programming language to solve the given problem (synthesis)
6. Choose an engineering approach to solving problems, starting from the acquired knowledge of programming and knowledge of operating systems. (evaluation)

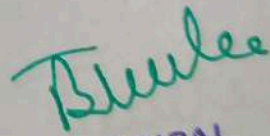
Lab:

1. Write, compile, and execute Java programs that include basic data types and control flow constructs using J2SE
2. Write, compile and execute Java programs using object oriented class structures with parameters, constructors, and utility and calculations methods, including inheritance, test classes and exception handling.
3. Write, compile, and execute Java programs using arrays and recursion.
4. Write, compile, and execute Java programs manipulating Strings and text documents.
5. Write, compile, execute Java programs that include GUIs and event driven programming.
6. Write a final project that may be selected from among the following: applets for inclusion in web pages, applets to access enterprise data bases in robust, enterprise three level applications.

Operating systems:

1. Understand the basics of operating systems like kernel, shell, types and views of operating systems
2. Describe the various CPU scheduling algorithms and remove deadlocks.
3. Explain various memory management techniques and concept of thrashing
4. Use disk management and disk scheduling algorithms for better utilization of external memory.
5. Recognize file system interface, protection and security mechanisms.
6. Explain the various features of distributed OS like Unix, Linux, windows etc.


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Department of Computer Applications

PROGRAM OUTCOMES:

After successful completion of three year degree program in Computer Applications a student should be able to:

- PO1: Get employment in IT fields, Software, Banks, Companies, BPOs and KPOs.
- PO2: Posses competent skills in areas like MIS Databases, E-Commerce and IT.
- PO3: Develop a program for system based applications and web page creation for business enterprises.
- PO4: To make students familiar with computer environment and operating systems.
- PO5: To make students aware of accounting packages like tally, and develop skill among students in applications of internet in commerce education
- PO6: Equip with skills and knowledge to excel in their future careers
- PO7: Enter master programs like M.Com, MBA and professional programmes like C.A, CMA, C.S, etc.

Program Specific Outcomes:

- PSO1: Understand the concepts of Computer application operations.
- PSO2: Apply the current techniques, skills, and tools necessary for computing practices.
- PSO3: Ability to design, implement domain knowledge for computer programming.
- PSO4: The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.
- PSO5: Understand the basic concepts and functions of accounting, trade and computer software.

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తెలుగు -ముఖ్యమైన ఫలితాలు

డిగ్రీ స్థాయిలో ద్వితీయ భాషగా తెలుగు బోధన విద్యార్థులకు అనేక విధాలుగా ప్రయోజనకరంగా ఉంటుంది.

- 1.విద్యార్థులకు ప్రాచీన సాహిత్యం, ఆధునిక సాహిత్యం,వచన కవిత్వం, భాషాభాగాలు,వ్యాకరణం,ఛందస్సు మొదలైన అంశాల పట్ల అవగాహన కలిగే విధంగా సిలబస్ రూపకల్పన జరిగింది.
- 2.ఆంధ్రమహాభారతం,భాగవతం,రామాయణం,ఇతర కావ్యాలు మొదలైన వాటి నుండి గ్రహించబడిన పాఠ్యాంశాల వలన విద్యార్థులలో వ్యక్తిత్వవికాసం పెంపొందడమే కాకుండా వారికి ఆచారవ్యవహారాలు,మన సంస్కృతి గొప్పదనం ,మాటనేర్పరితనం,దేశభక్తి ,గురుభక్తి,పితృభక్తి వృద్ధిపొందుతుంది.
- 3.మాతృభాష పట్ల అభిమానముండి భాషను రక్షించుకుంటే విద్యార్థులలో భావ దారిద్ర్యం పోతుంది.



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తెలుగు అధ్యయనం-ఫలితాలు

డిగ్రీ స్థాయిలో తెలుగును అధ్యయనం చేయడం వలన విద్యార్థికి అనేక ప్రయోజనాలు కలవు.

1. ఆయా పాఠ్యాంశాలలో పరిచయమైన పాత్రల ఉదాత్తతను విద్యార్థి ఆకళింపు చేసుకుంటే అతనిలో ఉత్తమగుణాలు వృద్ధిపొందుతాయి.
2. మాతృభాషలో ప్రావీణ్యం సంపాదిస్తే ఇతర భాషలు సులభంగా నేర్చుకోవచ్చు.
3. భాషోచ్ఛరణలో స్పష్టత ఉంటే ఉద్యోగాలకు జరిగే మౌఖిక పరీక్షలలో సులభంగా ఎన్నికయ్యే అవకాశముంటుంది.
4. యు.పి.యస్.సి పరీక్షలలో కూడా తెలుగును ప్రత్యేకాంశంగా తీసుకొని చదివే అవకాశముంది.
5. పి.జి.స్థాయిలో తెలుగును చదివితే ప్రతికరంగం, సినిరంగం, టీ.వి.మొదలైన వాటిలో ఉపాధి లభించడమే కాకుండా జూనియర్ లెక్చరర్, అసిస్టెంట్ ప్రొఫెసర్ లాంటి ఉద్యోగాలను పొందవచ్చును.
6. వివిధ కవుల కావ్యాలు, వాటిలోని వర్ణనలు అధ్యయనం చేస్తే విద్యార్థులలో సృజనాత్మకత వృద్ధి చెందుతుంది.

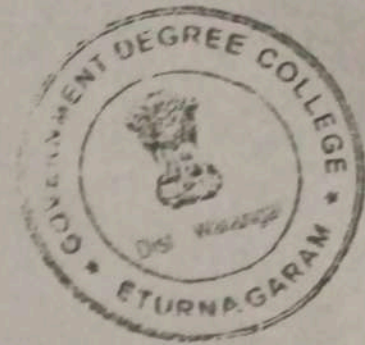


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GOVERNMENT DEGREE COLLEGE-ETURNAGARAM

DEPARTMENT OF MATHEMATICS

PROGRAMME OUTCOMES



By the end of BSc programme in Mathematics a student will:

PO1: Be able to analyze, test, interpret and form independent judgments in both academic and non-academic contexts

PO2: Recognize and appreciate the connections between Theory and applications

PO3: Have an appropriate set of professional skills to ensure a productive career

PO4: Work effectively in a multi-disciplinary environment

PO5: Be prepared for life-long learning

PO6: Exhibit positive attitudes and values toward the discipline, so that they can contribute to an increasingly complex and dynamic society.

PO7: Develop effective communication skills in English and Regional/National language

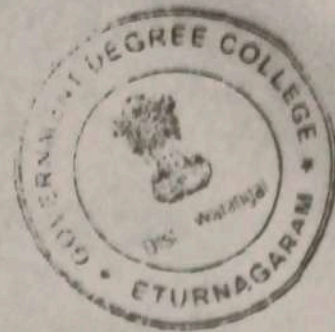
PO8: Communicate effectively with whom they are interacting and the society to make effective presentations, and give and receive clear instructions.

PO9: Function effectively as an individual, and as a member or leader in diverse teams.

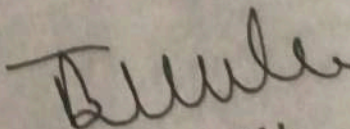
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PROGRAM SPECIFIC OUTCOMES

By the end of BSc programme in Mathematics a student will:

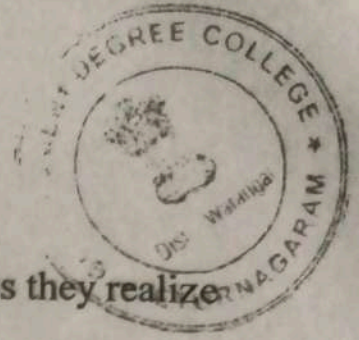


- PSO1: Be familiar with different areas of Mathematics
- PSO2: Construct abstract models using appropriate mathematical and statistical tools
- PSO3: Be prepared to use Mathematics, not only in the discipline of Mathematics, but also in other disciplines and in their future endeavours
- PSO4: Recognize what constitutes mathematical thinking, including the ability to produce and judge the validity of rigorous mathematical arguments
- PSO5: Identify suitable existing methods of analysis, if any, and assess his/her strength and weaknesses in the context of the problem being considered
- PSO6: Develop the skills necessary to formulate and understand proofs and to provide justification.
- PSO7: Think critically and communicate clearly mathematical concepts and solutions to real-world problems.
- PSO8: Be able to solve problems using a broad range of significant mathematical techniques.
- PSO9: Engage his/her creativity in the quest for novel and elegant solutions.
- PSO10: Develop an understanding of the precise language of Mathematics, and be able to integrate mathematical arguments with the uncritical thinking skills
- PSO11: Be a life-long learner who is able to independently expand his/her mathematical or statistical expertise when needed.


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Course outcomes

01. By the time students complete the course Differential Calculus they realize wide ranging applications of the subject.
02. After learning the course Differential Equations the students will be equipped with the various tools to solve few types differential equations that arise in several branches of science.
03. After the completion of the course Real Analysis students will be in a position to appreciate beauty and applicability of the course.
04. On successful completion of the course Algebra students will be able to recognize algebraic structures that arise in matrix algebra, linear algebra and will be able to apply the learnt in understanding various subjects..
05. After completion of Linear Algebra students appreciate its interdisciplinary nature.
06. Students realize the importance of the subject in solving some problems of algebra and calculus.
07. Students understand the beautiful interplay between algebra and geometry.
08. Students realize the way vector calculus is used to address some of the problems of physics.



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**GOVERNMENT DEGREE COLLEGE,
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DEPARTMENT OF PHYSICS**



PROGRAMME OUTCOMES:

Students of Physical Science are expect to

- Inculcate scientific thinking and awareness.
- Understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena of Physics.
- Acquire the skills in handling scientific instruments in the laboratory, and planning and performing experiments in a proper manner.
- Explain the basic scientific principles and methods.
- Analyze the applications of Mathematics to the problems in Physics and interpret the Mathematical results.

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**GOVERNMENT DEGREE COLLEGE,
ETURNAGARAM DIST: MULUGU.
DEPARTMENT OF PHYSICS**



COURSE OUTCOMES:

- By the end of first year the student should learn a thorough understanding of mechanics and Waves and Oscillations.
- By the end of second year the students will have understanding of Thermodynamics and Optics
- By the end of the third year the students should acquire thorough knowledge of electromagnetism and Modern Physics.
- By the end of the course a firm foundation in the subject is laid for further higher studies and research.

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