



A.S.D. Government Degree College for Women

An Autonomous Institution

Jagannaickpur, Kakinada, Andhra Pradesh-533002
Affiliated to Adikavi Nannaya University, Rajamahendravaram



INTERNAL QUALITY ASSURANCE CELL

2.3.3 Preparation and adherence of Academic Calender and Teaching Plans by the Institution



2020-21

**Minutes of Meeting
Proceeding of the Principal
Academic Calender
Teaching Plans**

The Staff of the College met in the Principal's Chamber on 31-12-2020 at 2.30 PM with Principal in chair to have a review of DRC-meeting conducted by RJD through Online held on 31-12-2020 at 11.00 AM.

- Syllabus completion
- Online classes taken to be noted in Bharat Padavo
- Enrolling students in Online Courses.
- Conduct of Webinars (IPR)
- Conduct of AC-meeting & GB-meeting.
- Preparing for Admissions 2020-2021
- Dr. D. Chenna Rao resuming as Principal (FAC)
- Update of website
- Conduct of COVID-tests for staff & students.
- Relaxation of Internal choice in Section - A of odd Semester end Examinations April 2021 of Core subjects i.e., Answering of 5 Questions out of 10 for each carries 10 marks.
- Preparation of Academic Calendar and Institutional Plan for the Academic Year 2020-2021.

Resolutions.

1. With the review of DRC meeting conducted by RTD it is instructed by the Principal to complete the syllabus in time and prepare the students for further MID & Semester End Exams.
2. Online classes taken by the faculty should be uploaded in the Bharat Padam link provided for producing evidence when necessary.
3. It is resolved to enroll maximum number of students in MOOCs Online courses and encourage them to complete the courses and attain certificates.
4. It is resolved to conduct webinars and workshops to students by all the Departments. It is also resolved to conduct semi webinars to students on Intellectual Property Rights (IPR).
5. It is resolved to conduct Academic Council (AC) meet and also G.B-Meeting as BOS-Meetings of all the Depts have been completed. B.Voc Courses BOS meetings are yet to be conducted.
6. With the clearance given by Govt. for Admissions of 2020-2021, it is resolved to prepare for admission and see that all the courses are completely filled by encouraging the students.
7. As Smt. H. Sureshala, Principal (FAC) is going abroad on leave for a period of 3 months it is informed that Dr. D. Venne Rao, HOD Chemistry is resuming as Principal (FAC) from 1st January 2021.

8. It is informed to the coordinator of college website to see that the website is active and update it time to time.
9. It is resolved to constitute a committee with a coordinator to consult the Medical Authorities for conducting COVID-Tests to students & staff of the college regularly.
10. Due to the pandemic situation it is informed by the Principal & COE to follow relaxation of Internal choice in the Question Papers in Section-A of Odd Semester End Examinations April 2021 of Coe subjects i.e., Answering of 5 questions out of 10 questions for each course 10 marks.
11. It is resolved to prepare Academic Calendar and Institutional Plan by the committee for the Academic year 2020-2021.

H. Suvana et

21/12/2020

1. D. B. Jangir G/F/lec in Eng
2. Basu, Lec. in Physics
3. M. Madhavi Lec. in Mathematics
4. ~~Prasad~~ Lec in Botany
5. M. Subhalakshmi c/L in Chemistry
6. ~~V. A. Jee~~ Lec. in Chemistry
7. U. N. S. S. Rao Lec in Comp. Science
8. ~~P. S. Rao~~ Lec in Telugu
9. K. N. B. Kumari c/L in Commerce
10. M. Pushpalatha G/F in Commerce
11. A. Sandhya G/F in Commerce
12. M. D. Haranurani G/F in Commerce
13. P. Lakshmi Devi
14. N. Pushpa G/F in Botany
15. K. Venkateshwarlu L/Physics
16. V. Srinivas G/F in Commerce
17. Ch. S. R. Prasad G/F in Commerce
18. D. K. R. Aravindhan G/F in Botany
19. Dr. B. Sri Fun Head/lecturer in History
20. Dr. K. Yamuna L/Economics.
21. P. Satya naga Veni G/F in Hindi
22. P. V. B. Devi G/F in Politics
23. B. Sonia G/F in Zoology
24. N. Veera chanti G/F in Aquaculture Technology
25. Dr. G. ANITHA Lec. in Home Science.
26. L. Bhavateja G/F in History.
27. ~~Reddy~~ L/Physics
28. ~~G. Srinivas~~ L/Commerce
29. ~~P. S. Rao~~ Lec. in Chemistry
30. ~~Srinivas~~ L/English
31. ~~Srinivas~~ Lecture in English.

**PROCEEDINGS OF THE PRINCIPAL, A.S.D.GOV'T DEGREE COLLEGE FOR
WOMEN [AUTONOMOUS], KAKINADA**

Present: Dr.D.Chenna Rao, M.Sc.,NET.,Ph.D.

Re.No:Spl/B2/2021







Dated: 30-12-2020

The Principal of A.S.D. Govt. Degree College for Women (Autonomous), Kakinada is pleased to nominate the following members for the preparation of Academic Calendar and Institutional Plan for the academic year 2020-2021

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ORDER:


The following members are nominated for the preparation of Academic Calendar and Institutional Plan for the academic year 2020-2021

- | | | |
|--------------------|----------------------------------|---|
| 1. Dr.D.Chenna Rao | Principal |  |
| 2. Ms.K.Madhavi | Vice-Principal |  |
| 3. Dr.K.Lavanya | IQAC Coordinator |  |
| 4. Dr.K.Aruna | Academic Coordinator |  |
| 5. Dr.K.Yamuna | Asst. Academic Coordinator |  |
| 6. Ms.G.Sridevi | Controller of Examinations (COE) |  |

Copy to the Concerned Members

Copy to the Principal's table




Signature of the Principal
PRINCIPAL
A.S.D.GOV'T.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

**A.S.D.GOVERNMENT DEGREE COLLEGE FOR WOMEN (AUTONOMOUS),
KAKINADA**

**(Affiliated to AdikaviNannaya University – Rajamahendravaram)
TENTATIVE ACADEMIC CALENDER 2020-21 (for UG I Year Classes)**

Sl.No.	Particulars	Date
1	Commencement of Class Work for I Year Courses (Semesters I)	28.01.2021
2	1st Internal Examinations	06.04.2021 onwards
3	2nd Internal Examinations	06.05.2021 onwards
4	Summer Break	15 th – 26 th May 2021
5	Last day of Instruction	02.06.2021
6	Last date for submission of attendance particulars	02.06.2021
7	Semester I End Practical Examinations	03.06.2021 onwards
8	I Semester Theory End Examinations	07.06.2021 onwards
9	Commencement of Class Work for Semester – II	22.06.2021
10	Ist Internal Examinations	22.07.2021
11	2nd Internal Examinations	27.08.2021
12	Last Date for submission of attendance particulars	09.10.2021
13	Last day of Instruction	09.10.2021
14	Semester End Practical Examinations	09.10.2021
15	Semester – II Theory End Examinations	12.10.2021
16	Re-opening day for IIIrd Semester of Second Year Students /(Academic Year 2021-22)	28.10.2021 (Thursday)

Note: No Supplementary Examinations under CBCS pattern



H. Suvachala
Principal
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KAKINADA**

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TENTATIVE ACADEMIC CALENDER 2021-22 (for UG II Year Classes)

Sl.No.	Particulars	Date
1	Commencement of Class Work for II Year Courses (Semesters III & IV)	17.11.2021
2	1st Internal Examinations	20.12.2021 onwards
3	Pongal Vacation	09.01.2022 to 16.01.2022
4	2nd Internal Examinations	27.01.2022 onwards
5	Last day of Instruction	19.03.2022
6	Last date for submission of attendance particulars	21.03.2022
7	Semester III End Practical Examinations	22.03.2022 onwards
8	III Semester Theory End Examinations	30.03.2022 onwards
9	Commencement of Class Work for Semester – IV	18.04.2022
10	1st Internal Examinations	11.05.2022
11	Summer Break	15 th – 29 th May 2022
12	2nd Internal Examinations	23.06.2022
13	Last day of Instruction	22.08.2022
14	Last Date for submission of attendance particulars	22.08.2022
15	IV Semester End Practical Examinations	24.08.2022
16	IV Semester Theory End Examinations	02.09.2022
	Re-opening day for V Semester of Final Year Students /(Academic Year 2022-23)	15.09.2022

Note: No Supplementary Examinations under CBCS pattern



V. N. S.
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A.S.D.GOVERNMENT DEGREE COLLEGE FOR WOMEN (AUTONOMOUS)

KAKINADA

(Affiliated to AdikaviNannaya University – Rajamahendravaram)

TENTATIVE ACADEMIC CALENDER FOR UG III YEAR CLASSES

Sl.No.	Particulars	Date
1	Re Opening day for Semester – V	06-09-2021
2	1st Internal Examinations for Semester – V	07.10.2021 to 09.10.2021
3	Dusserah Holidays	12 th -17 th October
4	2nd Internal Examinations for Semester – V	10.11.2021 to 12.11.2021
5	Pre final exams for Semester –V	3.01.2022 to 8.01.2022
6	Pongal Vacations	09.01.2022 to 16.01.2022
7	Last day of Instructions	1 st January 2022
8	Semester End Practical Examinations	17.01.2022
9	Semester End Theory Examinations	24.01.2022 to 31.01.2022
10	Commencement of Class Work for Semester – VI	01.02.2022
11	1st Internal Examinations for Semester – VI	03.03.2022 to 05.03.2022
12	2nd Internal Examinations for Semester – VI	06.04.2022 to 08.04.2022
13	Summer Break	15 th – 29 th May 2022
14	Last day of Instruction for Semester – VI	13 th June
15	Semester End Practical Examinations	14.06.2022 to 20.06.2022
16	Semester End Theory Examinations	22.06.2022 to 28.06.2022

Note: No Supplementary Examinations under CBCS pattern



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KAKINADA**

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TENTATIVE ACADEMIC CALENDER 2021-22 (for UG I Year Classes)

Sl.No.	Particulars	Date
1	Commencement of Class Work for I Year Courses (Semesters I)	22.11.2021
2	1st Internal Examinations	24.02.2022 onwards
3	2nd Internal Examinations	17.03.2022 onwards
4	Last day of Instruction	31.03.2022
5	Last date for submission of attendance particulars	31.03.2022
6	Semester I End Practical Examinations	06.04.2022 onwards
7	I Semester Theory End Examinations	20.04.2022 onwards
8	Summer Break	15 th – 29 th May 2022
9	Commencement of Class Work for II Semester	30.05.2022
10	Ist Internal Examinations	05.07.2022
11	2nd Internal Examinations	29.08.2022
12	Last Date for submission of attendance particulars	30.09.2022
13	Last day of Instruction	30.09.2022
14	Semester End Practical Examinations	10.10.2022
15	Semester – II Theory End Examinations	27.10.2022

Note: No Supplementary Examinations under CBCS pattern



V. N. O.
PRINCIPAL
A.S.D. GOVT. DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

ASD GOVERNMENT COLLEGE FOR WOMEN (A)
DEPARTMENT OF TELUGU
ACADEMIC PLAN 2020-21
I SEMESTER GENERAL & SPECIAL TELUGU

MONTH	GENERAL TELUGU PRACHEENA TELUGU KAVITVAM	SPECIAL TELUGU PRACHEENA KAVITHA PARICHAYAM
JANUARY	RAJANEETHI	BEJJA MAHADEVI KATHA
FEBRUARY	RAJANEETHI& DAKSHAYAJNAM VYAKARANAM	NADEEJANGHOPAKHYANA M
MARCH	DHOUMYA DHARMOPADESAM VYAKARANAM	PRAHLAADA CHARITRAM
APRIL	PALANATI BEBBULI VYAKARANAM	VAROODHINEE PRAVARULU
MAY	SEETHAARAVANA SAMVADAM VYAKARANAM	ASHOKAVANAMLO JANAKI

ASD GOVERNMENT COLLEGE FOR WOMEN (A)
DEPARTMENT OF TELUGU
ACADEMIC PLAN 2020-21
III SEMESTER GENERAL & SPECIAL TELUGU

MONTH	GENERAL TELUGU SRUJANAATMAKA RACHANA	SPECIAL TELUGU PRACHEENA TELUGU SAHITYACHARITRA
NOVEMBER	VYAKTHEEKARANA NAIPUNYALU	PRAGNANNAYA YUGAM
DECEMBER	VYAKTHEEKARANA NAIPUNYAALU & SRUJANATMAKA RACHANA	PRAGNANNAYA YUGAM & ANUVADA YUGAM
JANUARY	ANUVADA RACHANA	KAVYA-PURANA YUGAM
FEBRUARY	MADHYAMALAKU RACHANA-I	PRABANDHA YUGAM
MARCH	MADHYAMALAKU RACHANA-II	DAKSHINANDHRA YUGAM

ASD GOVERNMENT COLLEGE FOR WOMEN (A), KAKINADA
DEPARTMENT OF TELUGU
ACADEMIC PLAN 2020-21
V SEMESTER SPECIAL TELUGU

MONTH	SPECIAL TELUGU PAPER-V TELUGU BHASHA CHARITRA	SPECIAL TELUGU PAPER-VI BALAVYAKARANAM- CHANDASSU
JUNE	ANDHRAMU- TELUGU- TENUGU PUTTUPOORVOTTARALU	BALA VYAKARANAM – SANJNA PARICHCHEDAM
JULY	BHARATHA DESAMLONI BHASHA KUTUMBALU, DRAVIDA BHASHALU	BALA VYAKARANAM – SANDHI PARICHCHEDAM
AUGUST	MANDALIKALU	CHANDASSU
SEPTEMBER	DWANI, ARTHA PARINAMAM	YATHULU
OCTOBER	ANYA DESYALU, ADANA PRADANALU	PRAASALU

ASD GOVERNMENT COLLEGE FOR WOMEN (A)
DEPARTMENT OF TELUGU
ACADEMIC PLAN 2020-21
VI SEMESTER SPECIAL TELUGU CLUSTER PAPERS

MONTH	JANAPADA SAHITYAM	CLUSTER-1 JOURNALISM	CLUSTER-II ADHUNIKA TELUGU NIRMANAM	CLUSTER-III ANUVADAM
NOVEMBER	JANAPADA VIJNANA VARGEEKARANA- PRAYOJANALU	COMMUNICATION	ADHUNIKA TELUGU BHASHA	ANUVADAM
DECEMBER	JANAPADA VIJNANA VARGEEKARANA- PRAYOJANALU	JOURNALISM	ADHUNIKA TELUGU BHASHA, KRIYA BHEDALU	ANUVADAM, ANUVADAM- RAKALU
JANUARY	JANAPADA GEYALU- LAKSHANALU	EDITOR- SUB EDITOR	TELUGU VAKYA NIRMANAM	ANUVADA SAMASYALU
FEBRUARY	JANAPADA ROOPAKALU	NEWS FEATURES	TELUGU VAKYA NIRMANAM	ADHIKARA BHASHAGA TELUGU
MARCH	JANAPADA SANGEETHAKARULU	TELUGU PATRIKALA CHARITRA	TELUGU BHASHA ADHUNIKARANA	ADHIKARA BHASHAGA TELUGU

ASD GOVERNMENT COLLEGE FOR WOMEN (A)
DEPARTMENT OF TELUGU
ACADEMIC PLAN 2020-21
II SEMESTER GENERAL & SPECIAL TELUGU

MONTH	GENERAL TELUGU AADHUNIKA KAVITVAM	SPECIAL TELUGU AADHUNIKA KAVITHA PARICHAYAM
JUNE	AADHUNIKA KAVITVAM PARICHAYAM- KONDAVEEDU- MATRU SANGEETHAM	JANMABHOOMI GEYAM
JULY	TATAKO NOOLUPOGU TELUGU KATHA PARICHAYAM- BHAYAM, SWEDAM KHAREEDU KATHALU	VEMANA NEETHI
AUGUST	TELUGU NAVALA PARICHAYAM RATHACHAKRALU NAVALA, SAMEEKSHA VYASAM	GABBILAM-PADYA KAVYAM
SEPTEMBER	TELUGU NATAKA PARICHAYAM YAKSHAGANAM NATAKA, SAMEEKSHA VYASAM	BHIKSHUVARSIYASEE- KAVITHA KHANDIKA
OCTOBER	TELUGU SAHITYA VIMARSA- PARICHAYAM, VIMARSA SWAROOPA SWABHAVALU, UTTAMA VIMARSAKUDU- LAKSHANALU	AMRUTHAM KURISINA RAATRI -KAVITHA KHANDIKA



H. Svarchala
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A.S.D GOVT DEGREE COLLEGE FOR WOMEN (A)

(Re-Accredited by NAAC with 'B')
KAKINADA 533002 EASTGODAVARI, ANDHRA PRADESH

DEPARTMENT OF BOTANY

ANNUAL ACADEMIC PLAN 2020-2021

I B.Sc., I SEMESTER

BOTANY PAPER-I : FUNDAMENTALS OF MICROBES AND NON VASCULAR PLANTS

MONTH	TOPIC
February 2021	ORIGIN OF LIFE AND VIRUSES Origin of life, concept of primary Abiogenesis; Miller and Urey experiment. Five kingdom classification of R.H. Whittaker Discovery of microorganisms, Pasteur experiments, germ theory of diseases. Shape and symmetry of viruses; structure of TMV and Gemini virus; multiplication of TMV; A brief account of Prions and Viroids. A general account on symptoms of plant diseases caused by Viruses. Transmission of plant viruses and their control. Significance of viruses in vaccine production, bio- pesticides and as cloning vectors.
March -2021	SPECIAL GROUPS OF BACTERIA AND EUBACTERIA Brief account of Archaeobacteria, Actinomycetes and Cyanobacteria. . Cell structure and nutrition of Eubacteria.. Reproduction- Asexual (Binary fission and endospores) and bacterial recombination (Conjugation, transformation, Transduction).. Economic importance of Bacteria with reference to their role in Agriculture and industry(fermentation and medicine). A general account on symptoms of plant diseases caused by Bacteria; Citrus canker.

	<p>FUNGI & LICHENS General characteristics of fungi and Ainsworth classification (upto classes).</p>
March 2021	<p>Structure, reproduction and life history of (a) Rhizopus (Zygomycota) and (b) Puccinia (Basidiomycota). Economic uses of fungi in food industry, pharmacy and agriculture. A general account on symptoms of plant diseases caused by Fungi; Blast of Rice. Lichens- structure and reproduction; ecological and economic importance.</p>
April 2021	<p>ALGAE General characteristics of Algae (pigments, flagella and reserve food material); Fritsch classification (uptoclasses). Thallus organization and life cycles inAlgae. Occurrence, structure, reproduction and life cycle of (a) Spirogyra (Chlorophyceae)and (b) Polysiphonia (Rhodophyceae). Economic importance ofAlgae.</p>
May 2021	<p>BRYOPHYTES General characteristics of Bryophytes; classification upto classes. Occurrence, morphology, anatomy, reproduction (developmental details are not needed) and life cycle of (a) Marchantia (Hepaticopsida) and (b)Funaria(Bryopsida). General account on evolution of sporophytes in Bryophyta.</p>

I B.Sc., II SEMESTER , BOTANY PAPER-II
BASICS OF VASCULAR PLANTS AND PHYTOGEOGRAPHY

MONTH	TOPIC
June 2021	<p>PTERIDOPHYTES General characteristics of Pteridophyta; classification of Smithuptodivisions. Occurrence, morphology, anatomy, reproduction (developmental details are not needed) and Life history of (a) Lycopodium (Lycopsida) and (b) Marsilea(Filicopsida). Stelar evolution inPteridophytes; Heterospory and seedhabit.</p>
July 2021	<p>GYMNOSPERMS General characteristics of Gymnosperms; Sporne classification upto classes. Occurrence, morphology, anatomy, reproduction (developmental details are not needed) and life history of (a) Cycas (Cycadopsida) and (b) Gnetum(Gnetopsida). Outlines of geological timescale. A brief account onCycadeoidea</p>
August 2021	<p>BASIC ASPECTS OF TAXONOMY Aim and scope of taxonomy; Species concept: Taxonomic hierarchy, species, genus and family. Plant nomenclature: Binomial system, ICBN- rules for nomenclature. Herbarium and its techniques, BSI herbarium and Kew herbarium; concept of digital herbaria. Bentham and Hooker system of classification; Systematic description and economic importance of the following families: (a) Annonaceae (b) Curcurbitaceae</p>

September 2021	<p>SYSTEMATIC TAXONOMY Systematic description and economic importance of the following families: (a) Asteraceae (b) Asclepiadaceae (c) Amaranthaceae (d) Euphorbiaceae (e) Arecaceae and (f) Poaceae Outlines of Angiosperm Phylogeny Group (APGIV).</p>
October 2021	<p>PHYTOGEOGRAPHY Principles of Phytogeography, Distribution (wides, endemic, discontinuousspecies) Endemism – types andcauses. Phytogeographic regions of World. Phytogeographic regions of India. Vegetation types in AndhraPradesh. Revision</p>

II B.Sc., III SEMESTER

BOTANY PAPER-III : PLANT TAXONOMY AND EMBRYOLOGY OF ANGIOSPERMS

MONTH	TOPIC
December 2021	Introduction To Plant Taxonomy, 1. Fundamental components of Taxonomy 2. Taxonomic resources- Herbarium , function & Important Herbaria, Botanical gardens , flora , keys , 3. Botanical Nomenclature – Principles and rules of ICBN
JANUARY 2021	Classification – Types of classification , Artificial , Natural and Phylogenetic Bentham and Hooker’s System, merits and demerits Engler and Prantle’s system, , merits and demerits Phylogeny – origin and evolution of Angiosperms
FEBRUARY 2021	Systematic Taxonomy I : Annonaceae, Brassicaceae, Rutaceae, Cucurbitaceae, and Apiaceae Systematic Taxonomy II : Asteraceae, Asclepiadaceae, Lamiaceae, Euphorbiaceae ,Arecaceae and Poaceae Embryology : Microsporogenesis , Ovule types ,Megasporogenesis, Types of Embryosacs, pollination, fertilization
MARCH 2021	Embryology : , Endosperm Development and Types, Development of Dicot and Monocot Embryos, Polyembryony Revision

II B.Sc., IV SEMESTER

BOTANY PAPER-IV : PLANT PHYSIOLOGY AND METABOLISM

MONTH	TOPIC
April 2021	Water Relations : Physical properties of water , Diffusion, imbibitions, osmosis, Absorption of and transport of water , Ascent of sap Transpiration
May 2021	Mineral Nutrition (Macro & Micro nutrients) and their role in plant metabolism , deficiency symptoms Mineral ion uptake , Nitrogen metabolism Enzymes : Charcterstics , mechanism of Enzyme action and factors regulating enzyme action Photosynthesis: Light reactions, Photophosphorylation, C3, C4, and CAM path ways
JUNE 2021	Translocation of Organic Solutes— Plant Metabolism: Glycolysis, Anaerobic Respiration, TCA cycle , Electron transport system , Lipid metabolism
JULY 2021	Growth and Development- Physiological effects of Phytohormones- Auxins, Gibberellins , cytokinins, ABA, Ethylene, & Brassino steroids Physiology of flowering: Photo periodism , Vernalization, Physiology of Scenescence and ageing
AUGUST 2021	Semester end examinations.

III B.Sc., V-SEMESTER , BOTANY PAPER-V
CELL BIOLOGY, GENETICS AND PLANT BREEDING

MONTH	TOPIC
SEPTEMBER R 2021	<p>Cell Biology : Cell, the unit of life : cell theory, Prokaryotic & Eukaryotic cell, Eukaryotic cell components, Ultra structure and functions of cell wall and cell membranes. Chromosomes : Morphology , Organisation of DNA in Chromosome,</p>
OCTOBER 2021	<p>Genetic material : DNA as the genetic material DNA structure and replication of DNA (semi-conservative) Types of RNA and their structure and functions</p>
NOVEMBER R 2021	<p>Mendelian inheritance Mendel's Laws of inheritance Chromosome theory of inheritance. Linkage : concept, complete & incomplete linkage, coupling & repulsion, Linkage maps Crossing Over : concept , Significance</p>
DECEMBER R 2021	<p>Plant Breeding Introduction and Objectives of Plant breeding. Methods of crop improvement : Procedure , advantages and limitations of introduction, selection, and Hybridization Breeding, Crop Improvement and Biotechnology Role of mutations in crop improvement.</p>
JANUARY 2022	<p>Role of somaclonal variations in crop improvement. Molecular breeding : Use of DNA markers in plant breeding and crop improvement (RAPD, RFLP).</p>
FEBRUARY Y 2022	<p>Revision And Semester End Examinations</p>

III B.Sc., V-SEMESTER

PAPER-VI : PLANT ECOLOGY AND PHYTOGEOGRAPHY

MONTH	TOPIC
SEPTEMBER 2021	Elements Of Ecology, Ecology : Definition , Branches and significance of ecology Climatic factors: Light, Temperature, Precipitation Edaphic factors: Origin, Formation, Composition and soil profile Biotic factors: Interaction between plants and animals
OCTOBER 2021	Ecosystem Ecology Ecosystem : concepts and components, energy flow, food chain, foodweb, Ecological pyramids, Productivity of Ecosystem, Biogeochemical cycles,
NOVEMBER 2021	Population and Community Ecology, Phytogeography: Principles , Distribution Phytogeographical regions of India & World, Endemism- types & causes
DECEMBER 2021	Plant Biodiversity- Definition & Levels of Biodiversity, Biodiversity Hotspots of India , Loss of Biodiversity, seed banks – Conservation of genetic resources
JANUARY 2022	Revision And Semester End Examinations

III B.Sc., VI- SEMESTER

BOTANY PAPER-VII – ELECTIVE B

NURSERY, GARDENING AND FLORICULTURE

MONTH	TOPIC
JUNE 2021	Nursery : Definition , objectives, scope and building up of Infrastructure for Nursery, Planning and Seasonal activities , Nursery Management and Routine Garden operations Gardening – Definition, Objectives and scope and Different types of Gardening Landscape and home gardening, computer applications in landscaping – Gardening operations, Landscaping places of Public importance -- some famous gardens of India
JULY 2021	Propagation Methods : Sowing , Raising of seeds and seedlings, layering , cuttings, Planting of cuttings Propagation of Ornamental Plants by Rhizomes, Corms, Tubers, Bulbs, Bulbils ,Green House : Mist Chamber, shade house, glass house for propagation
AUGUST 2021	Floriculture : Ornamental Plants, flowering annuals, Herbaceous perennials, Ornamental trees, Ornamental bulbous and foliage plants,cacti and succulents , ornamental palms, cultivation of Bonsai, Indoor gardening, Commercial Floriculture – Factors effecting flower production, Production and packaging of Cut flowers, Cultivation of Important Cut flowers Management of pests , diseases and harvesting
SEPTEMBER 2021	Revision Sem end exams

III B.Sc., VI- SEMESTER BOTANY–

CLUSTER ELECTIVE--A

PAPER-VIII A-1 PLANT DIVERSITY AND HUMAN WELFARE

MONTH	TOPIC
JUNE 2021	Plant Diversity and Scope— Types of Biodiversity , Agro biodiversity, Values and uses of Biodiversity, Uses of plants
JULY 2021	Loss of Biodiversity— ,Loss of Genetic diversity, Loss of species diversity, Ecosystem diversity , loss of Agro bio diversity, Management of Plant Bio diversity – Organisation associated with Biodiversity management, IUCN, UNEP, UNESCO, WWF, NBPGR Biodeversity Legislation and conservation
AUGUST 2021	Contemporary practices in Resource Management , Environmental impact assessment, Geographical information system, Solid and liquid waste management
AUGUST 2021	Conservation of Bio diversity Conservation of Genetic diversity Conservation of Species diversity Ex-situ & In-situ Conservation , Biodiversity Awareness Programmes, Sustainable development Role of plants in relation to human welfare Importance of Forestry their utilization, Avenue trees, ornamental plants of India, Important Fruit crops, Wood, fibre and their uses
SEPTEMBER	Semester end examinations

III B.Sc., VI- SEMESTER

BOTANY–CLUSTER ELECTIVE-

PAPER –VIII A2 ETHNO BOTANY AND MEDICINAL BOTANY

MONTH	TOPIC
JUNE 2021	Ethno Botany introduction, Concept , scope objectives, Ethno botany as an interdisciplinary science, major and minor ethnic groups, Plants used by Tribal populations
JULY 2021	Role of Ethno Botany in Modern Medicine Medico ethano botanical sources of India, Significance of the following plants in Ethano botanical practices a, Azardirachta indica b, Ocimum sanctum c, Vitex negundo d, Gloriosa superba e, Tribulus terrestris f, Phyllanthus niruri, g, Cassia auriculata h, Indigofera tinctoria i, Senna auriculata j, Curcuma longa
AUGUST 2021	Ethno Botany as a tool to protect interest of Ethnic group Sharing of wealth concept with few examples from India, Biopiracy, Intellectual property rights Scope and Importance of medicinal plants , indigenous medicinal sciences (Ayurveda, sidda, unani medicine)
SEPTEMBER 2021	Conservation of Endangered and endemic medicinal plants – Definition, Red list criteria, In-situ conservation, ex-situ conservation

III BSC BOTANY-SEMESTER VI

PAPER VIII—CLUSTER ELECTIVE

PAPER –VIII A3 PHARMACOGNOSY AND PHYTOCHEMISTRY

MONTH	TOPIC
JUNE 2021	Pharmacognosy Definition, Importance, Classification of Drugs – Chemical & pharmacological Drug evaluation methods
JULY 2021	Organoleptic and microscopic studies Organoleptic & Microscopic studies with reference to nature of active principles and common adulterants of <i>Alstonia scholaris</i> (bark) <i>Adhatoda vasica</i> (leaf) <i>Strychnos nux-vomica</i> (seed) <i>Raulfia serpentina</i> (roo) and <i>Zingiber officinalis</i> and <i>Catharanthus roseus</i> Secondary Metabolites Types Extraction of alkaloids
AUGUST 2021	Origin of Secondary metabolites Details of acetate pathway, mevalonate pathway and shikimate pathway. Phytochemistry and sources of drugs Phenols and phenolic glycosides, Steroids, sterols, Alkaloids and volatile oils, Aromatherapy
SEPTEMBER 2021	Enzymes, Proteins, and amino acids as Drugs Vaccines, Toxins and toxoids, antitoxins immunoglobulins antiserums Vitamins & antibiotics- Chemical nature & mode of action Pharmacological action of plant drugs Role of different Enzyme inhibitors Revision



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ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) Kakainada**DEPARTMENT OF COMMERCE I B.COM I SEMESTER****ACADEMIC PLAN 2020-21**

MONTH	FINANCIAL ACCOUNTING I	BUSINESS ORGANISATION MANAGEMENT	BUSINESS ENVIRONMENT	ENTREPRENEURSHIP DEVELOPMENT	INSURANCE PROMOTION
JANUARY	Introduction	Introduction to business	Introduction to Business Environment	Introduction	Introduction
FEBRUARY	Preparation of Journal and Ledger	Introduction Concepts of Business, Trade, Industry and Commerce	Overview of Business Environment elements	Entrepreneurship	Introduction of Insurance
MARCH	Subsidiary Books	forms of Business Organizations	Economic Environment Economic Policies	Idea Generation and Project Formulation	Life Insurance plans
APRIL	Trial Balance and Rectification of Errors; Bank Reconciliation Statement	Company Incorporation, Management	Social, Political and Legal Environment	Idea Generation and Project Formulation	Health insurance plans. Products and features
MAY	Final Accounts	Functions of Management	Global Environment	Institutions Supporting and Taxation Benefits	General Insurance - It's products

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DEPARTMENT OF COMMERCE I B.COM II SEMESTER

ACADEMIC PLAN 2020-21

MONTH	FINANCIAL ACCOUNTING II	BANKING THEORY AND PRACTICES	BUSINESS ECONOMICS
June	Depreciation	Introduction	Introduction
July	Provisions and Reserves	Banking Systems	Demand Analysis
August	Bills of Exchange,	Types of Banks, Banker and Customer	Production, Cost and Revenue Analysis,
September	Consignment Accounts	Collecting Banker and Paying Banker	Market Structure
October	Joint Venture Account	Relationship between Banker and customer, Garner Vs Murray case	National Income

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DEPARTMENT OF COMMERCE II B.COM III SEMESTER

ACADEMIC PLAN 2020-21

MONTH	ADAVANCE ACCOUNTING	BUSINESS STASTICITES	MARKETING
December	Accounting for Non Profit Organizations	Introduction to Statistics	Introduction
January	Single Entry System	Measures of Central Tendency, Measures of dispersion and Skewness	Consumer Markets and Buyer Behavior
February	Hire Purchase System	Measures of Relation	Product Management, Pricing Decision
March	Partnership Accounts I Partnership Accounts-II	Analysis of Time Series & Index Numbers	Promotion and Distribution

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DEPARTMENT OF COMMERCE III B.COM V SEMESTER

ACADEMIC PLAN 2020-21

MONTH	BUSINESS LEADERSHIP	COST ACCOUNTING	GOODS AND SERVICE TAX	TAXATION	COMMERCIAL GEOGRAPHY	PURCHASE MANAGEMENT	STORES MANAGEMENT	BANKING THEORY AND PRACTICES
September	Introductory	Introduction	Introduction	Introduction	The Earth	Introduction	Stores Function	Introduction
October	Decision-Making and Leadership	Preparation of Cost Sheet	GST Principles, Tax Invoice	Goods and Service Tax and fundamentals	India - Agriculture	Purchasing Function	Material Receipt and Issue,	Banking Systems
November	Decision-Making and Leadership	Labour and Overheads, Methods of Costing: Job costing	Time of Supply of Goods & Services	Income from salary	India - Forestry, India -	Vendor Analysis	Stock Control Techniques	Types of Banks, Banker and Customer
December	Special Topics	Costing Techniques	GST Returns	Income from other heads	Minerals and Mining	Buyer-Supplier Relationships	Stores Operations	Collecting Banker and Paying Banker
January			Revision	Taxation system in India, Tax planning	India - Water Resources - Rivers	Supply Chain Management	Procedure Manuals	Relationship between Banker and customer, Garner Vs Murray case

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DEPARTMENT OF COMMERCE III B.COM VI SEMESTER

ACADEMIC PLAN 2020-21

MO NT H	EVENT MANAG EMENT	TALLY	MANAGE MENT ACCOUN TING	AUDITING	MA RKE TIN G	AGRICU LTURE RURAL MARKE TING	Ware house manage ment	Tally with GST
FEB U A R AY	corporat eevents and custome rneeds	Fundame ntals of Tally. ERP 9	Manageme nt Accountin g	Promotion and Distrib ution	Intro duc tion	Conce pt of Rural Marke t	Concept of Wareho use	Introduc tion to GST
MA RC H	logistics - types ofOut Door Events	Create Accounti ng Masters in Tally. ERP 9	Ratio Analysi s,	Types of Audit	Cons um er Mark ets and Buye r Beha viour	Rural Consum er Behavio ur	Role of Wareho using in Retail	GST Transacti on, GST Rates
AP RIL	logistics - types ofOut Door Events	Create Accounti ng Masters in Tally. ERP 9	Fund Flow Stateme nt	Planning of Audit, Vouchi ng and Investigation	Pro duct Man age men t,	Agricult ural Marketi ng,	Wareho use Operati ons,	GST Invoices GST Returns
MA Y	Celebrit y Events	Creatin g Invento ry Master	Cash Flow Stateme nt	Company Audit	Prici ng Decis ion ,Pro moti on	Agricult ure Support Mechani sm	Health and Safety Perspec tive	Paymentof GST taxes online
JU NE	Revision	Revision	Break- Even Analysis and Decision Making	Auditors Report	Distr ibu tion	Export potenti alfor Argo- product s	Wareho using Practice s	Revision

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DEPARTMENT OF COMPUTER SCIENCE
B.Sc(M.P.Cs)
ACADEMIC PLAN 2020-2021
SEMESTER - I (PROBLEM SOLVING IN C)

Month	Name of the Topic
JANUARY	General Fundamentals
FEBRUARY	General Fundamentals
	Introduction to C
MARCH	Introduction to C
	Introduction to Arrays
APRIL	Introduction to Arrays
	Introduction of Functions
	Introductions to structures,
MAY	Pointers
	Introduction to Files

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ACADEMIC PLAN 2020-2021
SEMESTER - II (DATA STRUCTURES USING C)

Month	Name of the Topic
JUNE	Introduction to Data Structures
JULY	Arrays
	Linked Lists
AUGUST	Stacks
	Queues
SEPTEMBER	Binary Trees
	Searching and sorting
OCTOBER	Graphs

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ACADEMIC PLAN 2020-2021
SEMESTER – III (OBJECT ORIENTED PROGRAMMING USING JAVA)

Month	Name of the Topic
NOVEMBER	Fundamentals Of Object – Oriented Programming
DECEMBER	Fundamentals Of Object – Oriented Programming
	Decision Making & Branching
JANUARY	Decision Making & Branching
	Inheritance
FEBRUARY	Multithreaded Programming
	Applet Programming
MARCH	Applet Programming

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ACADEMIC PLAN 2020-2021
SEMESTER - IV (DATA STRUCTURES)

Month	Name of the Topic
APRIL	Concept of Abstract Data Types (ADTs)
MAY	Stacks and Ques
JUNE	Stacks and Ques
	Trees
JULY	Graphs
	Sorting and Searching
AUGUST	Sorting and Searching

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ACADEMIC PLAN 2020-2021
SEMESTER - V (DATABASE MANAGEMENT SYSTEMS)

Month	Name of the Topic
NOVEMBER	Overview of Database Management System
DECEMBER	Overview of Database Management System
	Entity-Relationship Model
JANUARY	Entity-Relationship Model
	Relational Model
FEBRUARY	Structured Query Language
	PL/SQL
MARCH	PL/SQL

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B.Sc(M.P.Cs)
ACADEMIC PLAN 2020-2021
SEMESTER – VI (WEB TECHNOLOGY)

Month	Name of the Topic
APRIL	HTML
	Cascading Style Sheets
MAY	Cascading Style Sheets
	JavaScript
JUNE	JavaScript
	DHTML
JULY	DHTML
	XML
AUGUST	XML

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B.Sc(M.P.Cs)
ACADEMIC PLAN 2020-2021
SEMESTER - VI (DISTRIBUTED SYSTEMS)

Month	Name of the Topic
APRIL	Introduction to Distributed Computing Systems.
	Features of Message Passing System
MAY	Features of Message Passing System
JUNE	Introduction, Design and implementation of DSM system.
JULY	Task Assignment Approach
	File Models
AUGUST	File Models

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DEPARTMENT OF COMPUTER SCIENCE
B.Sc(M.P.Cs)
ACADEMIC PLAN 2020-2021
SEMESTER - VI (CLOUD COMPUTING)

Month	Name of the Topic
APRIL	Cloud Computing Overview
MAY	Cloud scenarios
JUNE	Cloud architecture
	Infrastructure as a Service (IaaS)
JULY	Infrastructure as a Service (IaaS)
	Virtualization
AUGUST	Virtualization



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B.COM(CA)
ACADEMIC PLAN 2020-2021
SEMESTER - I (INFORMATION TECHNOLOGY)

Month	Name of the Topic
JANUARY	Introduction
FEBRUARY	Introduction
	MS- Word Processing
MARCH	MS- Word Processing
	MS-Excel
APRIL	MS-Power point
	MS Access
MAY	MS Access

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ACADEMIC PLAN 2020-2021
SEMESTER - II (E-COMMERCE AND WEB DESIGNING)

Month	Name of the Topic
JUNE	Introduction
JULY	E-payment System
	On-line Business Transactions
AUGUST	On-line Business Transactions
	Website designing
SEPTEMBER	Website designing
	Security and Encryption
OCTOBER	Security and Encryption

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ACADEMIC PLAN 2020-2021
SEMESTER – III (OFFICE AUTOMATION TOOLS)

Month	Name of the Topic
NOVEMBER	MS-Excel
	Formatting options
DECEMBER	Formatting options
	Charts
JANUARY	Charts
	MS Access
FEBRUARY	MS Access
	Finding, Sorting and Displaying Data
MARCH	Finding, Sorting and Displaying Data

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ACADEMIC PLAN 2020-2021
SEMESTER - IV (PROGRAMING IN C)

Month	Name of the Topic
APRIL	Introduction to Algorithms and Programming Languages
	Decision Control and Looping Statements.
MAY	Functions
JUNE	Functions
	Arrays
JULY	Arrays
	Pointers
AUGUST	Pointers

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DEPARTMENT OF COMPUTER SCIENCE
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ACADEMIC PLAN 2020-2021
SEMESTER - V
DATABASE MANAGEMENT SYSTEM

Month	Name of the Topic
NOVEMBER	Overview of Database Management System
DECEMBER	File based system
	Entity-Relationship Model.
JANUARY	Entity-Relationship Model.
	Structured Query Language
FEBRUARY	Structured Query Language
	PL/SQL
MARCH	PL/SQL

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DEPARTMENT OF COMPUTER SCIENCE
B.COM.(CA)
ACADEMIC PLAN 2020-2021
SEMESTER – V
WEB TECHNOLOGY

Month	Name of the Topic
NOVEMBER	HTML
DECEMBER	Cascading Style Sheets
	JavaScript
JANUARY	JavaScript
	DHTML
FEBRUARY	DHTML
	XML
MARCH	XML

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DEPARTMENT OF COMPUTER SCIENCE
B.COM(CA)
ACADEMIC PLAN 2020-2021
SEMESTER – VI (E-COMMERCE)

Month	Name of the Topic
APRIL	Introduction to E-Commerce
	Business-to-Business Electronic Commerce
MAY	Business-to-Business Electronic Commerce
JUNE	Internet and Extranet
	Public Policy
JULY	Public Policy
	Infrastructure For EC
AUGUST	Infrastructure For EC



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DEPARTMENT OF ECONOMICS

I BA-Economics (Micro Economic Analysis)

ACADEMIC PLAN 2020-21

I SEMESTER

MONTH	Topic to be covered
Feb-21	Scarcity and Choice as fundamental problems of economics - Opportunity Cost - Production Possibilities Curve - Micro and Macro Analysis - Micro economic analysis – Scope and Importance -Principles of Microeconomics : Allocation of Resources - Optimization, Equilibrium and Marginal analysis -Rationality Principle the concept of Welfare
Mar-21	Demand -Cardinal and Ordinal utility - Indifference Curve analysis : Properties of Indifference curves, Indifference Curve Map -Marginal Rate of Substitution - Budget Line - Changes -Consumer Equilibrium under Indifference Curve Analysis – Consumers’ Surplus and Indifference Curve Analysis
Apr-21	Concept and Objectives of Firm - Production Function: Cobb- Douglas Production Function -Law of Variable Proportions -Laws of Returns to Scale - Economies of large scale - Concepts of Cost - Total, Average and Marginal Costs - Law of Supply - Concept of Revenue : Total, Average and Marginal Revenues - Relation between Average and Marginal Revenues and elasticity of Supply
May-21	Concepts of Market : Criteria for Classification of Markets - Perfect Competition– Conditions, Price and Output determination ; Monopoly : Conditions, Price and Output Determination - Price Discrimination; Monopolistic Competition - Assumptions - Price and output determination - Selling Costs ; Oligopoly - Types- Kinky demand curve and Price rigidity
Jun-21	The concepts of Functional and Personal Distribution of Income - Marginal Productivity Theory of Distribution - Modern Theory of Distribution -Concept of Rent -
Jul-21	Ricardian Theory of Rent – Marshall’s concepts of Economic Rent and Quasi Rent; Theories of Wage Determination: Subsistence Theory and Standard of Living Theory - Modern Theory of Wages; Classical Theory of Interest -Loanable Funds Theory of Interest -Liquidity Preference Theory of Interest; Theories of Profit: Risk and Uncertainty, Dynamic and Innovations Theories.

ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KAKINADA
DEPARTMENT OF ECONOMICS
I BA-Economics (Macro Economic Analysis)
ACADEMIC PLAN 2020-21

II SEMESTER

MONTH	Topic to be covered
Jun-21	Macroeconomics - Definition, Scope and Importance - Difference between Micro economic and Macro economic Analyses – Circular Flow of Income -National Income: Definitions, Concepts, Measurement of National Income - Difficulties - Importance - Concept of Green Accounting
Aug-21	Consumption Function - Keynes' Psychological Law of Consumption - Average and Marginal Propensity to Consume - Factors determining Consumption Function –Brief Review of Relative, Life Cycle and Permanent Income Hypotheses - Investment Function: Marginal Efficiency of Capital -Multiplier and Accelerator - Keynesian Theory of Employment - Applicability to Developing countries
Sep-21	Definitions of Money - Concepts of Money, Liquidity and Finance - Money Illusion - Gresham's Law - RBI classification of Money - Theories of Money: Fisher and Cambridge (Marshall, Pigou, Robertson and Keynes equations) - Banking - Definition and types of Banking - Commercial Banks - Functions -Recent Trends in Banking - Mergers and Acquisitions - Central Bank - Functions - Control of Credit by Central Bank - NBFCs- Factors contributing to their Growth and their Role
Oct-21	Inflation: Concepts of Inflation, deflation, reflation and stagflation - Phillip's Curve - Measurement of Inflation - CPI and WPI -Types of Inflation - Causes and Consequences of Inflation -Measures to Control Inflation. Trade Cycles: Phases of a Trade Cycle -Causes and Measures to control Trade Cycles
Nov-21	Financial Assets and Financial Instruments - Financial Markets - Functions of Money Market - Functions of Capital Market - Stock Market - Exchanges – Indices:Sensex and Nifty - Concept of Insurance -Types and Importance of Insurance

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DEPARTMENT OF ECONOMICS

II BA-Economics (Macro Economics-I)

ACADEMIC PLAN 2020-21

III SEMESTER

MONTH	Topic to be covered
Oct-20	Meaning, definition of Macro Economics - Importance of Macro Economics- Difference between Micro and Macro Economics - Paradox of Macro Economics –Limitations
Nov-20	National Income - Definitions, Concepts of National Income - Measurement of National Income - Circular flow of Income in Two, Three and Four Sector Economy.
Dec-20	Classical theory of Employment – Say’s Law of Markets-Keynesian Theory of Employment
Jan-21	Consumption function – Investment Function MEC, concepts of multiplier and accelerator
Feb-21	Meaning and Functions of Money – Classification of Money – Gresham’s Law – RBI classification of Money. Theories of Money
Mar-21	Fisher’s Quantity theory of Money Cambridge approach (Marshall, Pigou, Robertson & Keynes), Demonetization.

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DEPARTMENT OF ECONOMICS

II BA-Economics (Macro Economics-II)

ACADEMIC PLAN 2020-21

IV SEMESTER

MONTH	Topic to be covered
Apr-21	Trade Cycles – meaning and definition – Phases of a Trade Cycle – Inflation – definition – types of inflation – causes and effects of inflation measures to control inflation.
May-21	Importance of International Trade -Regional and International Trade – Theories of Trade – Classical – Adam Smith and David Ricardo, Neo – Classical Theory of Trade – Heckscher and Ohlin. Leontief Paradox -
Jun-21	Macro Economic Policy - Fiscal, Monetary and Exchange rate policies Objectives and Significance -Functions of Commercial Banks – Concept of Credit creation – Functions of RBI. Concepts of Shares-Debentures - Stock Market – Functions – Primary and Secondary Markets
Jul-21	Insurance –Life Insurance, Concept of General Insurance Non-Bank Financial Institutions – Types of NBFIs - Factors contributing to the Growth of NBFIs --
Aug-21	Money market – Defects of Indian money market

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DEPARTMENT OF ECONOMICS
III BA-Economics Economic Development & Indian Economy
ACADEMIC PLAN 2020-21

V SEMESTER

MONTH	Topic to be covered
Oct-20	Concept of Economic Growth – Distinction between economic growth and development – Measurement of economic development – Theories of Economic Growth: Adam Smith, Rostow, Karl Marx and Harrod & Domar Models.
Nov-20	Sustainable development _ Balanced and unbalanced growth – Choice of techniques Labour intensive and capital intensive methods.
Dec-20	Basic features of the Indian Economy – Natural Resources – Important Demographic features
Jan-21	Concept of Population Dividend – Population Policy. National Income in India – trends and composition – poverty, inequalities and Unemployment – Measures taken by the Government – MGNREGS.
Feb-21	Economic reforms – liberalization, privatization and globalization – concept of inclusive growth

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DEPARTMENT OF ECONOMICS
III BA-Economics Indian and Andhra Pradesh Economy
ACADEMIC PLAN 2020-21

MONTH	Topic to be covered
Oct-20	Indian Agriculture – Importance of Agriculture in India – Agrarian structure and relations- Factors determining productivity – Agricultural Infrastructure – Rural credit – Micro Finance – Self Help Groups (SHGs) – Agricultural Price policy- concept of Crop Insurance- Food Security
Nov-20	Structure and growth of Indian Industry – Industrial policies of 1956 & 1991 Meaning of Micro small and Medium Enterprises (MSMEs) – Problems and Prospects of small scale Industries in India
Dec-20	Disinvestment in India – FEMA – Foreign direct investment – Services Sector in India – Reforms in Banking and Insurance – IT, Education and Health.
Jan-21	Planning in India Economy – Objectives of Five YEAR,s plans – Review of Five YEAR,s plans –
Feb-21	Current five YEAR,s plan – NITI Aayog Economic reforms – liberalization, privatization and globalization – concept of inclusive growth Andhra Pradesh Economy – Population – GSDP – Sector Contribution and trends – IT Small Scale Industry – SEZs.

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DEPARTMENT OF ECONOMICS
III BA-Economics Agricultural Economics
ACADEMIC PLAN 2020-21

VI SEMESTER

MONTH	Topic to be covered
Apr-21	Nature and Scope of Agricultural Economics. Factors affecting agricultural development: technological, institutional and general. Interdependence between agriculture and industry.
May-21	Concept of production function : input-output and product relationship in farm production
Jun-21	Growth and productivity trends in Indian agriculture with special reference to Andhra Pradesh. Agrarian reforms and their role in economic development.
Jul-21	Systems of farming, farm size and productivity relationship in Indian agriculture with special reference to Andhra Pradesh-New agriculture strategy and Green revolution: and its Impact.
Aug-21	Emerging trends in production, processing, marketing and exports; policy controls and regulations relating to industrial sector with specific reference to agro- industries in agribusiness enterprises

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DEPARTMENT OF ECONOMICS
III BA-Economics -Agribusiness Environment in AP
ACADEMIC PLAN 2020-21

MONTH	Topic to be covered
Apr-21	Role of agriculture in development process in Andhra Pradesh vis-à-vis other developed states. Economy wide effects of agriculture in Andhra Pradesh through trickle down effects. Backward and forward linkages of agriculture with rest of economy.
May-21	Agricultural finance-importance in modern agriculture – performance of agricultural finance in Andhra Pradesh – Problems of agricultural finance – Inter linkages of agricultural credit and other input markets and product markets.
Jun-21	Dynamics of agriculture-crop (horticulture, field crops), sector-livestock (poultry dairy and fisheries) sector and inter linkages among the sectors. Agribusiness sector in Andhra Pradesh – Salient features, constraints, sub sectors of agribusiness – input sector, production sector, processing sector.
Jul-21	Growth performance of major agricultural commodities in Andhra Pradesh – Production and processing trends in exports and imports of major agricultural commodities.
Aug-21	Marketing policy – structure of agri markets – regulated markets – need – activities – structure – APMC Act – market legislations – Role of Farmer Groups in the marketing of Agricultural Produce.

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DEPARTMENT OF ECONOMICS

III BA-Economics-Agricultural output Marketing

ACADEMIC PLAN 2020-21

MONTH	Topic to be covered
Apr-21	Structure and Model of Agri-Marketing Organizations with functions. Functions of intermediaries, Marketing Practices in Primary and Secondary and Terminal Market, Regulated Markets, Co-operative Marketing
May-21	Marketing costs and margins, Marketing Finance. Marketing Structure of Major agricultural commodities, food grains: Rice, and Maize. Cash Crops; Cotton, Oil Seeds, Vegetables and Fruits, Milk, Meat and Poultry Products
Jun-21	Problems and Challenges in Agriculture Marketing – Market Yards – Support Prices – Rural Warehousing. Role of Andhra Pradesh State Warehousing Corporation in marketing of Agricultural output.
Jul-21	State Intervention in Agricultural Marketing, Role of Various agencies (Andhra Pradesh Agro, MARKFED, State Department, and FCI, Tobacco Board, Cotton Corporation) and its impact on market efficiency. Agriculture Price Commission. NAFED
Aug-21	Inter-regional and international trade in agriculture; emerging scenario of international trade in agricultural commodities; concept of terms of trade and balance of payments, WTO and Indian agriculture with special reference to Andhra Pradesh

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DEPARTMENT OF ECONOMICS
III BA-Economics -PROJECT
ACADEMIC PLAN 2020-21

MONTH	Topic to be covered
Apr-21	Project
May-21	
Jun-21	
Jul-21	
Aug-21	



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English- Annual Academic Plan
Semester –I
2020-2021

Month	Paper=I- A course in communication and soft skills
February 2021	I-Unit Listening Skills <ol style="list-style-type: none"> 1. Importance of Listening 2. Types of Listening 3. Barriers to Listening 4. Effective Listening
March 2021	II-Unit Speaking Skills <ol style="list-style-type: none"> 1. Sounds of English: Vowels and Cosants 2. Accent 3. Intonation III-Unit Grammar <ol style="list-style-type: none"> a. Concord b. Modals c. Tenses d. Articles
April 2021	e. Prepositions f. Question Tags g. Sentence Formation h. Error Correction IV-Unit Writing <ol style="list-style-type: none"> 1. Puntuation 2. Spelling 3. Paragraph Writing
May 2021	V- Unit: Soft Skills <ol style="list-style-type: none"> 1. SWOC 2. Attitude 3. Emotional Intelligence
June 2021	4. Telephone Etiquette 5. Interpersonal Skills

**English- Annual Academic Plan
Semester –II
2020-2021**

Month	Paper-II Reading and Writing Skills	Business Communication
June 2021	I. UNIT Prose : 1. How to Avoid Foolish Opinions Bertrand Russell Skills : 2. Vocabulary: Conversion of Words 3. One Word Substitutes 4. Collocations	UNIT I: Introduction and Importance of communication an overview - meaning and process of communication - organizational communication and its barriers.
July 2021	II. UNIT Prose : 1. The Doll’s House Katherine Mansfield Poetry : 2. Ode to the West Wind P B Shelley Non-Detailed Text : 3. Florence Nightingale Abrar Moshin Skills 4. Skimming and Scanning	UNIT II: Types of Business Communications – Categories, methods and formats – Business vocabulary - Business idioms and collocations
August 2021	III. UNIT Prose : 1. The Night Train at Deoli Ruskin Bond Poetry 2. Upagupta Rabindranath Tagore Skills : 3. Reading Comprehension 4. Note Making/Taking	UNIT II: Organisational Hierarchy - Various levels of communication in an organization – Top-down, Bottom-up and Horizontal-Business reports, presentations– Online communications.
September 2021	IV. UNIT Poetry : 1. Coromandel Fishers Sarojini Naidu Skills : 2. Expansion of Ideas 3. Notices, Agendas and Minutes	. UNIT III: Receiving business communications - Filing and processing -Sending replies. Routine cycle of communications – Writing Communications - Characteristics of a good business communication
October 2021	V. UNIT Non-Detailed Text : 1. An Astrologer’s Day- R K Narayan Skills : 2. Curriculum Vitae and Resume : 3. Letters : 4. E-Correspondence	UNIT III Preparation of business meeting agenda – agenda notes - minutes –circulation of minutes – Presentations of communication using various methods

**English- Annual Academic Plan
Semester –III
2020-2021**

Month	General English Paper -III
October 2020	Unit – I PROSE 1. M.K. Gandhi: Shyness My Shield (from The Story of My Experiments with Truth) 2. Martin Luther King.Jr. I Have A Dream
November 2020	Unit – II POETRY 1. Gabriel Okara: Once upon a Time 2. Seamus Heaney : Digging by Unit – III SHORT STORY 1. JhumpaLahiri: The Interpreter of Maladies 2. Shashi Deshpande: The Beloved Charioteer
December 2020	Unit – IV ONE ACT PLAY GurajadaAppa Rao: Kanyasulkam, translated by C. Vijayasree& T. VijayaKumar (Acts I & II)
January 2021	Unit – V LANGUAGE ACTIVITY 1. Classroom and Laboratory Activities i. JAM Sessions ii. Note Taking iii. Reporting for the Media iv. Expansion of an idea
February 2021	2. Classroom Activity i. Transformation of sentences (Simple-Complex-Compound Sentences) ii. Note Making iii. Report Writing iv. Writing for the Media

CSS-3- Annual Academic Plan
Semester –IV
2020-2021

Month	CSS-3- A course in communication and soft skills
April 2021	Unit I: Soft Skills 1. Positive Attitude 2. Body Language 3. SWOT/SWOC Analysis 4. Emotional Intelligence 5. Netiquette
May 2021	Unit II: Paragraph Writing 1. Paragraph Structure 2. Development of Ideas
June 2021	Unit III: Paraphrasing and Summarizing 1. Elements of Effective Paraphrasing 2. Techniques for Paraphrasing 3. What Makes a Good Summary? 4. Stages of Summarizing
July 2021	Unit IV: Letter Writing 1. Letter Writing (Formal and Informal) 2. E-correspondence
August 2021	Unit V: 1. Resume and CV 2. Cover Letter



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B.Sc,B,COM,B.A**

ACADEMIC PLAN 2020-2021

SEMESTER - I

1: PROSE , SHORT STORIES ,GRAMMAR& LETTER WRITING

Month	Name of the Topic
JANUARY	.BRIDGE COURSE .काल
FEBRUARY	.भारतीय सहिँत्य की एकता .आत्म हँभरता
MARCH	.हलग .वापसी .कायालयीँ शब्दावली
APRIL	.अदरकी पहवत्रता .ठकुर का कुँ आ .वचि
MAY	.सदाचार की ताबीज .हवलोम शब्द .छुटी पत्र

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**ACADEMIC PLAN 2020-2021
SEMESTER - II :OLD &MODERN POETRY,HISTORY OF HINDI
LITERATURE,NIBHAND,TRANSLATION**

Month	Name of the Topic
JUNE	.भारत एक िै । H.I.V.AIDS
JULY	सन्धि हवछे द .कारक हचह
AUGUST	.हबदा भूख िडताल
SEPTEMBER	परमात्मा का कु ता .और वि पढ़ गई .सव िाम
OCTOBER	.कायालयोि हिदी शब्दावली .काल .पत्र लेखि

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ACADEMIC PLAN 2020-2021

SEMESTER – III

(Drama, Upanishad, Alamkara, Participles & Sabdas.

Month	Name of the Topic
NOVEMBER	.व्याकरण कारक हचििि काल .समाज मेेे ििी की भूहमका
DECEMBER	.साखी-दोिे-कबीरदास .बालवणिि,हविय-सूरदास
	.परपत्र .हवश्व भाषा के रूप मेेे हिदी
JANUARY	. आगे बढे ऊँ चे-चदो मैहिली शरण गुप्त . चरण चले ईमािि चले ईमाििि चले-माखि लाल चतुवेदी
	.हिदी साहित्य का इहतिस -काल हवभाजि . भन्धि काल की शाखायुँ अँर हवशेषतै ।
FEBRUARY	.अहिसूचििा .अिुवाद
	.भन्धि काल मेेे जाििश्रयी शाखा-कबीर .भन्धि काल मेेे जाििश्रयी शाखा जायसो
MARCH	.अिुवाद अगेजी से हिदी .भारत की वतमािि पररन्धितयौ .कायालयीिि झापि .मेरा हिय कहव



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ACADEMIC PLAN 2020-2021
DEPARTMENT OF HISTORY
B.A Semester- I
Paper-I (Indian History & Culture) (from earliest times to 647 A.D)

Month		Name of the Topic
Feb 2021	Unit- I	Survey of sources literary & Archaeology sources – Influence of Geography on History. Unity in Diversity- stone age cultures- Indus valley civilization
March 2021	Unit-II	Vedic age & Religious Movements- Jainism and Buddhism
April- 2021	Unit-III	Rise of Magadha Empire – Asoka’s Dhamma – Art & Architecture
May - 2021	Unit-IV	Kushans- Satavahanas – Sangam Age
June- 2021	Unit- V	Gupta Empire- Samudra Gupta greatness – Golden age- Down fall- Hunas

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ACADEMIC PLAN 2020-2021
DEPARTMENT OF HISTORY
B.A Semester- II
Paper- II Early medieval Indian History and Culture (647-1526 A.D)
(Indian History & Culture) (647- 1526 A.D)

Month		Name of the Topic
June-2021	Unit- I	Harshvardhan – Chalukyas of Badami & Eastern Chalukyas – Pallavas
July-2021	Unit-II	Pallavas Culture – Art & Architecture- Administration – Cholas Empire - Administration
Aug-2021	Unit-III	Arab invasions on Sind -Turkish Invasions – Md. Ghajini & Md. Ghorī – Delhi Sultanate- Slave Dynasty- Balban – Khilji Dynasty- Allauddin Khilji-Md. Bin – Tughlak Sayyad and Lodhi Dynasties
Sept -2021	Unit-IV & Unit-V	Delhi Sultanates Administration- Kakatiyas- Vijaya Nagara Empire –Sri Krishna Devaraya - Golden Age- Impact of Islam on Indian society- Bhakti & Sufi Movements-
Oct -2021		Revision

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ACADEMIC PLAN 2020-2021
DEPARTMENT OF HISTORY
B.A Semester- III
Paper- III Late medieval & Colonial History of India (1526-1857 A.D)
(History & Culture of India) (1526- 1857 A.D)

Month		Name of the Topic
Oct-2020	Unit- I	India from 1526-1707 Mughal Empire- Babur – Humayun- Sher sha sur -Akbar- Jahamgheer – Aurangzeb
NOV-2020	Unit-II	Mughal Administration- Cultural Development – Down fall
DEC-2020	Unit-III	India under Colonial Hegemony- European settlements – Anglo- French struggle- Expansion- Subsidiary Alliance – Doctrine of Laps.
JAN -2021	Unit-IV	Economic policies of British (1757-1857) Land Revenue settlements – Impact of Industrial Revolution on Indian Industry- spread of modern Education-Peasant & Tribal Revolts
Feb - 2021	Unit- V	1857 Revolt- causes – Nature- consequences-

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ACADEMIC PLAN 2020-2021
DEPARTMENT OF HISTORY
B.A Semester- IV
SEMESTER - IV Social Reform Movement & Freedom struggle (1820-1947 A.D)
(History & Culture of India) (1857-1947 A.D)

Month		Name of the Topic
April-2021	Unit- I	Socio Religious Movements- Brahma samaj- Arya Samaj- Prardhana Samaj- Theosophical Society-Rama Krishna Mission-Kandukuri, Raghupati Venkata Ratnam Naidu- Self Respect Movements- Dr. B.R. Ambedkar- Narayana Guru
May-2021	Unit-II	Growth of Nationalism- Birth of Indian National Congress
June-2021	Unit-III	Freedom struggle from 1885- 1920- Vandematharam Movement& Swadeshi Movement & Home Rule Movement
July-2021	Unit-IV	Freedom Struggle from 1920-47 Gandhiji Role- Non-Co-operation Movement- Salt Satyagraha- Quit India Movement- Subash Chandra Bose- Muslim League
Aug- 2021	Unit- V	Partition of India – Integration of Princely states into Indian Union- Sardar Patel

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DEPARTMENT OF HISTORY

B.A Semester- V

**Paper- V Age of Rationalism and Humanism- The World between 15th & 18th Cen
(History of Modern World) (1453- 1821 A.D)**

Month		Name of the Topic
Oct-2020	Unit- I	Feudalism-Geographical Discoveries
NOV-2020	Unit-II	Renaissance Movement- Reformation & Counter Reformation
DEC-2020	Unit-III	Emergence of Nation States- The Glorious Revolution
JAN -2021	Unit-IV & Unit- V	The American Revolution- Bill of Rights- The French Revolution (1789)
Feb - 2021	Unit- V	The French Revolution (1789)

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DEPARTMENT OF HISTORY
B.A Semester- V

Paper- VI History and Culture of Andhra Desa from (12th- 19th Cen A.D)
(History & Culture of Andhra Desa from Satavahanas to 1857 A.D)

Month		Name of the Topic
Oct-2020	Unit- I	Andhra during 12 th to 13 th Cen. A.D Kakatiyas – Reddy Kingdoms
NOV-2020	Unit-II	Vijaya Nagara Empire- Sri Krishna Devaraya - Dev. Of Literature & Architecture- Down fall.
DEC-2020	Unit-III	The Qutb Shahis of Golkonda – Administration- Literature- Architecture
JAN -2021	Unit-IV & Unit- V	East India Company's Authority over Andhra – Carnatic Wars – Occupation of Northern and Ceded Districts- Peasants & Tribal Revolts- Impact of Company Rule on Andhra -
Feb - 2021	Unit- V	Impact of Industrial Revolution- Famines- Impact of 1857 Revolt in Andhra

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DEPARTMENT OF HISTORY
B.A Semester- VI
Elective Paper- VII History of Modern Europe (from 19th Cen -1945 A.D)

History of Modern World (1821 – 1945 A.D)

Month		Name of the Topic
April-2021	Unit- I	Industrial Revolution – origin, Nature & Impact
May-2021	Unit-II& Unit-III	Unification of Italy & Germany – Russian Revolution
June-2021	Unit-IV	Russian Revolution World War- I- Results – Paris Conference – League of Nations
July-2021	Unit-IV & Unit- V	League of Nations- World War- II – Fascism- Nazism
Aug- 2021	Unit- V	U.N.O – Establishment- structure- Organs- Functions- Success-Failures

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DEPARTMENT OF HISTORY
B.A Semester- VI
Cluster Paper- VIII A1 Cultural Tourism in Andhra Pradesh

Month		Name of the Topic
April-2021	Unit- I	Concepts of Tourism
May-2021	Unit-II& Unit-III	Types of Tourism- History and Tourism- Heritage Sites- Ancient Monuments Preservation Act of 1904; 1958 & 1972 – A.S.I- Stage Museums
June-2021	Unit-IV	Planning & Development of A.P Tourism- APTDC- Fairs & Festivals – Andhra Cuisine-
July-2021	Unit-IV & Unit- V	Tourist places in A.P – Modalities of conducting Tourism
Aug- 2021		Revision

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DEPARTMENT OF HISTORY
B.A Semester- VI
Cluster Paper- VIII A2 Popular Movements in Andhra Desa (1848- 1956)
History & Culture of Andhra from 1857-1956

Month		Name of the Topic
April-2021	Unit- I	Social and Self Respect Movements
May-2021	Unit-II& Unit-III	Freedom Movement in Andhra (1885- 1920) Freedom Movement in Andhra (1920-1947)
June-2021	Unit-IV	Movement for separate Andhra State (1950)
July-2021	Unit-IV & Unit- V	Formation of Separate Andhra State – Movement for Formation of Andhra Pradesh (1956)
Aug- 2021	Unit- V	Formation of Andhra Pradesh

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B.A Semester- VI
Cluster Paper- VIII A3 Contemporary History of Andhra Pradesh (1956-2014)

Month		Name of the Topic
April-2021	Unit- I	Socio- Economic changes in Andhra Pradesh- Regional Politics -Telugu Desam Party
May-2021	Unit-II& Unit-III	Leftist Ideology – Marxist & Radical Literature – Naxal Bury Movement – Communist Party - Dalit Movement- Struggle for Identity
June-2021	Unit-IV	Bifurcation- Jai Telangana Movement – Mulki Rules – Jai Andhra Movement-
July-2021	Unit-IV & Unit- V	6-point Formula Bi furcation of Andhra Pradesh – Power Politics- T.R.S. Party -
Aug- 2021	Unit- V	Movement for separate Telangana- Formation of Telangana State.(2014)



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DEPARTMENT OF HORTICULTURE

I B.Sc HORTICULTURE ANNUAL ACADEMIC PLAN 2020-2021

SEMESTER - I, COURSE – I

FUNDAMENTALS OF HORTICULTURE AND SOIL SCIENCE

MONTH	TOPIC
February 2021	Unit I: Introduction to Horticulture <ol style="list-style-type: none">1. Horticulture: Definition, importance of horticulture in terms of economy, production, employment generation, environmental protection and human resource development.2. Divisions of horticulture with suitable examples and their importance.3. Area, production of Horticultural crops in A.P. and India.4. Fruit and vegetable zones of India and Andhra Pradesh.5. Export scenario and scope for Horticulture in India. Unit II: Classification of Horticulture Crops <ol style="list-style-type: none">1. Classification of horticultural crops based on soil and climatic requirements.

<p>March -2021</p>	<p>2. Vegetable crop gardens – Nutrition and kitchen garden – tracer garden – vegetable forcing –market garden– roof garden</p> <p>3. Gardens in Floriculture– flower gardens–soil and mixed gardens; landscape Horticulture.</p> <p>Unit III: Characteristics of Orchards</p> <p>1. Orchard: Definition, different systems of planting orchards square, rectangular Quincunx, hexagonal and contour.</p> <p>2. Calculation of planting densities in different systems of planting.</p> <p>3. Different types and methods of pruning.</p> <p>4. Training: Definition, principles and objectives; merits and demerits of open and close centered, and modified leader systems.</p>
<p>APRIL- 2021</p>	<p>Unit IV: Physico-chemical characteristics of Soil</p> <p>1. Soil: Definition, minerals and weathering to forms soils; factors of soil formation.</p> <p>2. Soil taxonomy; soil color, texture and structure; other physical properties and stability.</p> <p>3. Soil colloids and charges; ion adsorption and exchange; soil temperature and soil air.</p> <p>4. Soil pH and acidity; soil alkalinity and salinity.</p>
<p>MAY-2021</p>	<p>Unit V: Soil as a living matter</p> <p>1. Soil organic matter–composition and decomposability.</p> <p>2. Humus–fractionation of organic matter.</p> <p>3. Soil biology: Soil microorganisms and fauna–beneficial and harmful roles.</p> <p>4. Integrated nutrient management and soil tests.</p>

II B.Sc HORTICULTURE ANNUAL ACADEMIC PLAN 2020-2021

SEMESTER - III, COURSE – III

PLANT PROPAGATION AND NURSERY MANAGEMENT

MONTH	TOPIC
JUNE 2021	Unit -1: Sexual Propagation <ol style="list-style-type: none">1. Sexual propagation – advantages and disadvantages.2. Seed germination, process of seed germination; factors affecting seed germination;3. Pre-germination treatments and viability tests; sowing methods of seeds.4. Polyembryony in propagation of <i>Opuntia</i>, trifoliate orange, mango and <i>Citrus</i>.
JULY -2021	Unit -2 : Asexual Propagation <ol style="list-style-type: none">1. Asexual propagation – advantages and disadvantages.2. Using bulbs, corms, tubers and rhizomes to raise nursery.3. Stolons, runners and offsets in raising nursery.4. Apomixis : Definition; role of apomictics in propagation of apple, mangosteen and <i>Citrus</i>.
AUGUST- 2021	Unit- 3 : Vegetative Propagation Techniques Cuttings: Definition, propagation by root, leaf and stemcuttings. <ol style="list-style-type: none">1. Layering : Definition, techniques of simple, serpentine, mound, trench and airlayering.2. Grafting : Definition; approach and detached scion (Veneer, whip, cleft, side and bark) grafting techniques.3. Budding : Definition; techniques of T- , patch and chipbudding.

<p>SEPTEMBER -2021</p>	<p>Unit – 4 : Basic requirements ofaNursery</p> <ol style="list-style-type: none"> 1. Plant nursery: Definition, importance; Basic facilities for a nursery; layout and components of a good Nursery. 2. Nursery beds – types, their merits and demerits; precautions to be taken during preparation. 3. Brief account of growing media; nursery tools and implements. 4. Containers for plant Nursery. 5. Brief account of plant propagation structures.
<p>OCTOBER 2021</p>	<p>Unit -5 : Nursery Management</p> <ol style="list-style-type: none"> 1. Bureau of Indian Standards (BIS-2008) related to nursery; guidelines for nursery raising. 2. Nursery accreditation and Certification. 3. Seasonal activities and routine operations in a nursery; watering, weeding and control of pests and diseases. 4. Common possible errors in nursery activities. 5. Economics of nursery development and record maintenance; online nursery information and sales systems.

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Annual Academic Plans 2020-21

Semester I

H.Sc 101: Basic Nutrition

February, 2020	<ul style="list-style-type: none"> • Introduction to Food and Nutrition • Classification, functions, sources, digestion and absorption of Carbohydrates, Proteins, Lipids
March, 2020	<ul style="list-style-type: none"> • Vitamins- Fat soluble & Water soluble vitamins
April, 2020	<ul style="list-style-type: none"> • Minerals – Calcium, Sodium, Potassium - Functions and sources
May,2020	<ul style="list-style-type: none"> • Iron, Iodine – Functions and sources
June,2020	I semester Practical and Theory Exams

H.Sc 102 General Psychology

February, 2020	Psychology: Definition, scope of psychology and Methods of Studying Human Behaviour –
March, 2020	Attention Perception Major Psychological Approaches –
April, 2020	Illusions, Memory Interests and Aptitude
May,2020	Behavioural Perspective: Humanistic Perspective: Motivation
June,2020	The Cognitive Perspective. Gardner's Multiple Intelligence theory. Trait Perspective – Type theory of Sheldon and Big Five Factor Theory.

H.sc 103 FUNDAMENTALS OF TEXTILES

February,2020	Introduction to Textiles and Clothing
March,2020	Natural Fibres and Minor cellulose fibres
April,2020	Protein Fibres-Silk and wool-production, care
May,2020	Synthetic Fibres-Nylon, polyester And Acrylic fibre
June,2020	Mineral Fibres, Yarns and Mixtures and Blends

Semester II

H.Sc 201: Introduction to Food Science

July,2020	<ul style="list-style-type: none"> • Food – Definition, Functions, classification, Objectives of Cooking Preliminary preparations of cooking • Cereal grain – structure, composition and nutritive value of cereal grain, Cereal Processing – Parboiling, Uses of cereals in cooking
August,2020	<ul style="list-style-type: none"> • Pulses - structure, composition and nutritive value

	<ul style="list-style-type: none"> • Vegetable and Fruits – classification, Nutritive value and pigments, browning reactions • Nuts and oil seeds – Uses in cookery • Egg – Nutritive value, quality, Assessment, Uses in cookery • Milk – Nutritive value • Meat products – Meat, Fish, poultry – Nutritive value and uses in cookery • Spices and condiments – uses in cookery • Food Preservation, Food Additives, Nutrient enrichment
September,2020	<ul style="list-style-type: none"> • Convenience and Ready to eat Foods – Advantages and disadvantages • Food spoilage • Microorganisms – Useful changes in food
October,2020	<ul style="list-style-type: none"> • Microorganisms in different foods – milk, egg, meat, fish, vegetables and fruits • Revision
November,2020	II semester Practical and Theory Exams

H.sc 202 : HOUSING FOR BETTER LIVING

July,2020	Housing, Importance, and Principles of planning house
August,2020	House plans-planning of different rooms in the house
September,2020	Building materials and Flooring materials-Types and properties of Building Materials
October,2020	Building protection-dampness ,Termite @Fire protection
November,2020	Household equipment-small electrical ,large electrical appliances

H.sc 203 : FUNDAMENTALS OF HOME SCIENCE EXTENSION

July,2020	Extension Education
August,2020	Teaching and Learning process
September,2020	Teaching methods and techniques
October,2020	Audio-visual Aids
November,2020	Communication

Semester III

H.Sc 301: Food Science

November, 2020	<ul style="list-style-type: none">• Introduction to Food and Nutrition, classification, Functions Food Pyramid, Objectives of Cooking, Preliminary preparations of
	<ul style="list-style-type: none">• cooking, Cooking Methods – wet and dry methods
December, 2020	<ul style="list-style-type: none">• Cereal grain – structure, composition and nutritive value of cereal grain, Cereal Processing – Parboiling, malting, Uses of cereals in cooking• Pulses - structure, composition and nutritive value, gelatinization and fermentation• Vegetable and Fruits – classification, Nutritive value and pigments, browning reactions, ripening changes• Spices and condiments – uses in cookery
January, 2021	<ul style="list-style-type: none">• Milk – composition and Nutritive value• Egg – structure, composition and nutritive value, Role of Egg in cookery• Meat - Composition and nutritive value, Changes during cooking in meat, tenderness of meat, Poultry and fish – composition and nutritive value
February, 2021	<ul style="list-style-type: none">• Beverages – definition, classification, types Ready to eat convenience foods, Importance of millets in Human diet
March, 2021	<ul style="list-style-type: none">• III semester Practical and Theory Exams

HSC 302: TEXTILE FIBERS

November,2020	Introduction to Textile and clothing Terminology
December,2020	Properties of physical ,thermal and chemical Properties
January,2020	Production and properties ,use and care of Natural fibres
February,2020	Production and properties ,use and care of animal fibres
March,2020	Yarn Formation-Definition, steps in spinning

H. Sc 303:Housing for Better Family Living

November, 2020	Functions of a house Housing needs in different stages of family life cycle. Selection of site
December, 2020	Safety at Home: Pest Control, Prevention of accidents Orientation
January, 2021	Principles of planning Advantages of owning and renting a house Planning for efficient work centers- Prefabrication of buildings
February, 2021	Laurie baker Housing Components of a building Organisations of Housing Household equipment
March,2021	Construction, mechanism use and care household appliances Appropriate Technologies

Semester IV

H.Sc 401: Family Nutrition

April,2021	<ul style="list-style-type: none">• Pregnancy, Physiological changes, General dietary problems, complications of Pregnancy, Food and nutritional requirement• Lactation – role of hormones, Factors affecting on composition of breast milk, Food and nutritional requirement
May,2021	<ul style="list-style-type: none">• Infancy – Food and Nutritional requirement, Supplementary Foods• Preschool Children – Food and Nutritional requirement
June,2021	<ul style="list-style-type: none">• School Children – Food and Nutritional requirement, packed lunch• Adolescent - Food and Nutritional requirement• Adult - Children – Food and Nutritional requirement
July,2021	<ul style="list-style-type: none">• Old age - Nutrition related problems , modification of diet during old age, Food and Nutritional requirement
August,2021	IV semester Practical and Theory Exams

H.Sc 402: FABRIC CONSTRUCTION

April,2021	Fabric Construction-Weaving-types, thread count
May,2021	Non-woven fabrics-Knitting, Felting braiding@ Netting laces crochet
June,2021	Finishes-Introduction ,definition ,classification
July,2021	Traditional Textiles of India-History of art of weaving in India
August,2021	Chemical finishes-sizing and dressing, special purpose finishes

H.Sc 403: Interior Decoration

April,2021	Interior Design Elements of design
May,2021	Principles of Art Colour
June,2021	Accessories Flower Arrangement
July,2021	Furniture arrangement Table setting
August,2021	Furnishings in interior decoration

Semester V

H. Sc 501: Human Development

November, 2020	Growth and development Prenatal period- stages of pre natal development with its Hazards
December, 2020	Parturition Neonate Babyhood
January, 2021	Early childhood Late childhood
February,2021	Puberty Adolescence-
March,2021	Adjustment problems in the family

H. Sc 502 : MANAGEMENT OF FAMILY RESOURCES

November, 2020	Resources-meaning, classification and characteristics, guidelines for use
December,2020	Management Process-Qualities of home maker, Ethics in home management
January,2021	Decision Making-definition , kinds steps in decision making
February,2021	Time Management-nature and significance ,Techniques of Tm, work curve, peak load, time cost
March,2021	Energy Management-meaning ,principles, Mundels classifications @fatigue

H. Sc 503 :HOME SCIENCE EXTENSION

MONTH	HOME SCIENCE EXTENSION
November,2020	Nature and scope of Extension Education-definition ,concept of extension education
December,2020	Teaching and learning-definition ,principles of Motivation in extension
January,2021	Communication –introduction types key elements components
February,2021	Teaching aids –types purpose ,advantages and limitations
March,2021	Role of home science in community development

H.SC 504: Sociology

November, 2020	Sociologysocial institutions- family, marriage, religion and educational institution
December, 2020	Social groups Different types of family structure, changing village system in India
January, 2021	Indian city- Prevailing practices- current social problems
February,2021	Areas needing social change Concept of welfare state- Directive principles of the Indian constitution
March,2021	Population Education

H.SC 505: FABRIC EMBELLISHMENT

November ,2020	Dyeing –classification of dyes ,synthetic dyes
December,2020	Study of traditional Indian costumes and accessories
January.2021	Methods of dyeing-preparation of material for dyeing and printing.
February,2021	Printing-Introduction @definition various methods of printing
March,2021	March Care of clothing-laundry equipment ,methods of laundering@ stain removal ,dry cleaning

H.SC 506: Community Nutrition

November, 2020	<ul style="list-style-type: none">• Introduction to community Nutrition• Food Adulteration, types, prevention of Food Adulteration Act• Home Scale method of food preservation – Preparation of Jam, Jelli and squash, precautions to be taken
December, 2020	<ul style="list-style-type: none">• Introduction to Nutritional Status Assessment, Nutritional Anthropometry, Nutritional Assessment classification, Clinical Assessment, Biochemical Assessment
January, 2021	<ul style="list-style-type: none">• Dietary Assessment, Vital statistics• National Nutritional policy, Nutrition prophylaxis programme• Supplementary Programmes – ICDS, MDMP• Role of International and National programmes in alleviating malnutrition
February,2021	<ul style="list-style-type: none">• Nutritional problems prevalent in India Food Security
	<ul style="list-style-type: none">• Nutrition Education
March,2021	<ul style="list-style-type: none">• V semester Practical and Theory Exams

Semester VI

H. Sc 601: Early Childhood Care and Education

April,2021	History and significance of ECCE Types of preschools Characteristics of preschool
May,2021	ECE Philosophers Western: John Locke,Rousseau,Foebel,Montessori ECE Philosophers Indian:Mahatma Gandhi,Tagore,Tarabai Modek,J.Krishna Murthy
June,2021	Play behavior in children values of plays- Preschool program- long term, short term planning.
July,2021	Importance of parent teacher meeting Needs of children Rights of Children
August,2021	Organization and programs for child welfare-International& National

H.Sc 602: Therapeutic Nutrition

April,2021	Introduction to Therapeutic Nutrition Dietitian – role and responsibilities, Indian Dietetic Association, Diet counselling importance, Methods of Feeding – Enteral and Parenteral Types of diets in Hospitals
May,2021	Fever – Introduction, Types, general dietary modifications Under Nutrition – Aetiology, Dietary requirement and guidelines
June,2021	Obesity – Aetiology, types of Assessment, dietary guidelines, Nutritional requirement, suggested recipes Diabetes Mellitus – Aetiology, types, symptoms, diagnosis and management Kidney Diseases – Diet during glomerulonephritis, Diet in Nephrotic syndrome Cardiovascular diseases – atherosclerosis, role of fat Hypertension – Dietary Management
July,2021	Cancer – Nutritional problems in cancer therapy, dietary management Dietary management in Diarrhoea, constipation, peptic ulcer, Infective hepatitis, Liver cirrhosis, jaundice
August,2021	VI semester Practical and Theory Exams

H.Sc 603 : HOME SCIENCE EXTENSION AND COMMUNITY DEVELOPMENT

MONTH	HOME SCIENCE EXTENSION AND COMMUNITY DEVELOPMENT
April,2021	Extension programme planning-criteria, principles, PRA
May,2021	Extension teaching methods-Individual contacts, group contacts, mass contacts
June,2021	Planning lessons for specific groups-values necessities ,components
July,2021	Contribution of voluntary organizations in extension-CARE-REDCROSS,NREGA . ICAR

H. Sc 604: Family Dynamics

April,2021	Marriage rituals followed in various marital ceremonies like Hindu, Muslim and Christian - practice of dowry
May,2021	Areas of marital adjustment Family definition - functions, types of families - nuclear and joint
June,2021	characteristics of a family - Importance of family life education Stages in family life cycle-
July,2021	parenting styles Structure and forms of a family
August,2021	Status of women in the modern world education, employment and marriage, economic responsibilities and privileges

H. Sc 605: FAMILY ATTIRE AND CONSUMER EDUCATION

April,2021	Selection of Fabrics-clothing for infants. Toddlers, school going child
May,2021	Readymade Garments-selection and examination ,fitting
June,2021	Consumer buying-budget advertising ,labelling, and standards
July,2021	Wardrobe planning-aims principles ,renovation of old garments
August,2021	1. House hold textiles-classification towels, bed linen, use and care

H. Sc 606: HOUSE HOLD ECONOMICS

February,2021	Economics-Human wants, consumption-consumer surplus
March,2021	Consumer Education, purchasing methods
April,2021	Standard of living values goals, standards
May,2021	Money Management Budget, ways of supplementing family income
June,2021	Savings, importance ,family investments



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ACADEMIC PLAN 2020-21

Department of Political Science I B.A Semester- -I

PAPER-I Introduction to the Political Science

MONTH		TOPIC COVERED
Feb-2021	Unit-I	Introduction- Definition – Nature- Scope of Political Science
March-2021	Unit-2	State- Elements of the state – welfare state
April- 2021	Unit-3	Concepts of Political Science Law- Liberty – Equality- power – Authority
May-2021	Unit-4	Theories of Rights
June-2021	Unit-5	Political Ideologies

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ACADEMIC PLAN 2020-21

Department of Political Science I B.A Semester- -II

PAPER-II Basic Organs of the Government

MONTH		TOPIC COVERED
June-2021	Unit-I	Constitution
July- 2021	Unit-2	Organs of the Government
Aug-2021	Unit-3	Forms of Governments
Sept -2021	Unit-4	Democracy
Oct-2021	Unit-5	Political Parties- Pressure groups and Public Opinion

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ACADEMIC PLAN 2020-21

Department of Political Science

II B.A Semester- -III

PAPER-III Indian Constitution

MONTH		TOPIC COVERED
Oct-2020	Unit-I	The making of the Constitution
Nov- 2020	Unit-2	Philosophical Premises of the Indian Constitution
Dec-2020	Unit-3	Fundamental rights and Directive Principles of State Policy
Jan -2021	Unit-4	Indian Federalism
Feb-2021	Unit-5	Working of the Indian Constitution

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ACADEMIC PLAN 2020-21

Department of Political Science II B.A Semester- -IV

PAPER-IV Indian Political Process

MONTH		TOPIC COVERED
April- 2021	Unit-I	Approaches study the Political Process in India
May-2021	Unit-2	Social structure and Democratic Process
June-2021	Unit-3	Religion and Politics
July-2021	Unit-4	Party and Electoral Process in India
Aug-2021		Revision

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ACADEMIC PLAN 2020-21

Department of Political Science III B.A Semester- -V

PAPER-V Indian Political Thought

MONTH		TOPIC COVERED
Oct-2020	Unit-I	Traditions of Ancient Indian Political thought
Nov-2020	Unit-2	Renaissance Thought
Dec- 2020	Unit-3	Early Nationalism- Dadabai Nouroji- Renadey
Jan-2021	Unit-4	Religious Nationalism – V.D Savarkar- Mohammad Iqbal
Feb-2021	Unit-V	Democratic equalitarianism- Gandhi- Jawaharlal Nehru- Ambedkar

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ACADEMIC PLAN 2020-21

Department of Political Science III B.A Semester- -V

PAPER-VI Western Political Thought

MONTH		TOPIC COVERED
Oct-2020	Unit-I	Classical Western Political Thought
Nov-2020	Unit-2	Early Medieval to the beginning of Modern Thought
Dec- 2020	Unit-3	Liberal Thought
Jan-2021	Unit-4	Liberal Democratic Thought
Feb-2021	Unit- V	Philosophical Idealism and its Critique

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ACADEMIC PLAN 2020-21

Department of Political Science III B.A Semester- -VI

Elective PAPER-VII Local Self Government in A.P

MONTH		TOPIC COVERED
April- 2021	Unit-I	Evaluation of Local Self Government in India
May-2021	Unit-2	Importance of Constitutional amendments
June-2021	Unit-3	Structure and Functions of Panchayati Raj in Andhra Pradesh
July-2021	Unit-4	Structure and Functions of Urban, Local bodies in A. P
Aug-2021	Unit- V	Role of Leadership and emerging challenges.

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ACADEMIC PLAN 2020-21

Department of Political Science III B.A Semester- -VI

Cluster- C1 PAPER-VIII Inter National Relations

MONTH		TOPIC COVERED
April- 2021	Unit-I	Basic Concepts of Inter National Relations
May-2021	Unit-2	Approaches of the study of Inter National Relations
June-2021	Unit-3	Phases of Inter National Relations (1914-1945)
July-2021	Unit-4	Phases of Inter National Relations (1945 onwards)
Aug-2021	Unit- V	International Organizations

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Department of Political Science III B.A Semester- -VI

Cluster- C2 PAPER-VIII C2 Indian Foreign Policy

MONTH		TOPIC COVERED
April- 2021	Unit-I	Evaluation of Indian Foreign Policy
May-2021	Unit-2	Non-Alignment and UNO
June-2021	Unit-3	India's relations with USA and China
July-2021	Unit-4	India and her neighbours
Aug-2021	Unit- V	Trends in India's Foreign Policy

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ACADEMIC PLAN 2020-21

Department of Political Science III B.A Semester- -VI

Cluster- C3 PAPER-VIII C3 Contemporary Global Issues

MONTH		TOPIC COVERED
April- 2021	Unit-1	Conceptions of Globalization
May-2021	Unit-2	Anchors of Global Political Economy
June-2021	Unit-3	Nation state and Globalization
July-2021	Unit-4	Contemporary Global Issues
Aug-2021	Unit- V	World Trade Organization- BRICS



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ACADEMIC PLAN 2020-21

Department of Tourism

I B.A for HET Group Semester- -I

PAPER-I Basics of Tourism

MONTH		TOPIC COVERED
Feb-2021	Unit-I	Tourism Definition Nature & scope -Types of Tourism-Domestic & International Tourism
March-2021	Unit-2	Travelers in Ancient India7 Medieval Age- Growth and development of Tourism India
April- 2021	Unit-3	Tourism Organizations- Tourism Industry -Role of State 7 Central Governments in Promotions
May-2021	Unit-4	Demand & Supply in Tourism- Tourist statistics – Types of Tourist Statistics
June-2021	Unit-5	Tourism Development Corporations- Tourism promotion Councils

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ACADEMIC PLAN 2020-21

Department of Tourism

I B.A for HET Group Semester- -II

PAPER-II Tourism Resources of India

MONTH		TOPIC COVERED
June-2021	Unit-I	Knowledge of History and its importance in Tourism
July- 2021	Unit-2	Historical, Cultural & Religious Tourism – Resources of India
Aug-2021	Unit-3	Natural Tourism - Resources of India
Sept -2021	Unit-4	Catalyst of Tourism development of India
Oct-2021	Unit-5	Important Tourism Circuits

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ACADEMIC PLAN 2020-21

Department of Tourism

II B.A for HET Group Semester- -III

PAPER-III Tourism Products

MONTH		TOPIC COVERED
Oct-2020	Unit-I	Elements of Tourism Products- Concept-types of A.P Culture
Nov- 2020	Unit-2	Geography of Tourism Geographical Components and Tourism Development
Dec-2020	Unit-3	Natural Tourist Resources
Jan -2021	Unit-4	Tourism & Pilgrimage in India
Feb-2021	Unit-5	Performing arts & Handicrafts of India

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ACADEMIC PLAN 2020-21
Department of Tourism
II B.A for HET Group Semester- -IV
PAPER-IV Cultural Tourism in Andhra Pradesh

MONTH		TOPIC COVERED
Apr-2021	Unit-I	Definition of History – salient features of A.P Culture
May- 2021	Unit-2	Art& Architecture of A. P
June-2021	Unit-3	Performing Arts & Handicrafts
July-2021	Unit-4	Language & Literature
Aug-2021	Unit-5	Tribal Culture of A.P- UNESCO initiatives

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ACADEMIC PLAN 2020-21
Department of Tourism
B.A for HET Group Semester- -V
PAPER-V Guiding & interpretation skills for Tourism

III

MONTH		TOPIC COVERED
Oct-2020	Unit-I	Introduction of Guiding- Types of Tour Guide- Responsibilities of Guides
Nov-2020	Unit-2	Leadership 7 Social Skills
Dec- 2020	Unit-3	Guest Relationship Management
Jan-2021	Unit-4	Conducting Tours- Modes of Transportation
Feb-2021	Unit-5	Professional development- interpretative planning training

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ACADEMIC PLAN 2020-21
Department of Tourism
III B.A for HET Group Semester- -V
PAPER-VI Travel Agency & Tour Operation business

MONTH		TOPIC COVERED
Oct-2020	Unit-I	History of Travel Agency – Responsibilities & Functions of Travel Agency
Nov-2020	Unit-2	Difference between Travel Agent – Tour Operator
Dec- 2020	Unit-3	Organization structure of Travel Agency
Jan-2021	Unit-4	Organization of Tour Operation
Feb-2021	Unit-5	Ticket Booking- Visa- Pass port

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ACADEMIC PLAN 2020-21
Department of Tourism
III B.A for HET Group Semester- -VI
PAPER-VII Elective Tourism Marketing & Hospitality Management

MONTH		TOPIC COVERED
Apr-2021	Unit-I	Tourism Marketing Characteristics
May -2021	Unit-2	Marketing information system7 research process promotion
June- 2021	Unit-3	Hospitality industry
July- 2021	Unit-4	Guest stay process in a Hotel
Aug- 2021	Unit-5	Ticket booking for IRCTC

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ACADEMIC PLAN 2020-21
Department of Tourism
III B.A for HET Group Semester- -VI
PAPER-VIII Cluster- C1 Indian Cuisine

MONTH		TOPIC COVERED
Apr-2021	Unit-I	Introduction of Indian Cuisine- Foreign influence on Indian Cuisine
May -2021	Unit-2	Basic types of Indian cookings
June- 2021	Unit-3	Basic gravies in different region
July- 2021	Unit-4	Popular regional Cuisine
Aug- 2021	Unit-5	Commercial environment of culinary

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ACADEMIC PLAN 2020-21
Department of Tourism
III B.A for HET Group Semester- -VI
PAPER-VIII Cluster- C2 Contemporary food service

MONTH		TOPIC COVERED
Apr-2021	Unit-I	Knowledge of Equipment
May -2021	Unit-2	Restaurant Linen
June- 2021	Unit-3	Guest Handling Service Cycle
July- 2021	Unit-4	Rules for waiting at a table- Guest bill settlements
Aug- 2021	Unit-5	Room Services Standard Operational Procedures

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ACADEMIC PLAN 2020-21
Department of Tourism
III B.A for HET Group Semester- -VI
PAPER-VIII Cluster- C3 Leadership skills for Chefs

MONTH		TOPIC COVERED
Apr-2021	Unit-1	Leadership & Motivation
May -2021	Unit-2	Human Resource in Food service Industry
June- 2021	Unit-3	Skills for management
July- 2021	Unit-4	Developing Trust & support with Managers
Aug- 2021	Unit-5	Management of Security System



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DEPARTMENT OF ZOOLOGY & AQUACULTURE TECHNOLOGY

I B.Sc ZOOLOGY PAPER-I **ACADEMIC PLAN 2020-21**

I SEMESTER

MONTH	TOPIC COVERED
FEBRUARY'21	UNIT I : Introduction & protozoa
MARCH'21	UNIT II : Porifera , Coelenterata & Ctenophora
APRIL'21	UNIT III: Platyhelminthes & Nematelminthes
MAY'21	UNIT IV :Annelida& Arthropoda
JUNE'21	UNIT V: Mollusca , Echinodermata & hemichordata

I B.Sc ZOOLOGY PAPER-II ACADEMIC PLAN 2020-21

II SEMESTER

MONTH	TOPIC COVERED
JUNE'21	UNIT I : Protochordata & urochordata
JULY'21	UNIT II : Cyclostomata & pisces
AUGUST '21	UNIT III : Amphibians & reptiles
SEPTEMBER '21	UNIT IV : Aves
OCTOBER '21	UNIT II : Mammals

II B.Sc ZOOLOGY PAPER-IIIACADEMIC PLAN 2020-21

III SEMESTER

MONTH	TOPIC COVERED
OCTOBER '20	UNIT I : Cell biology I
NOVEMBER'20	UNIT II : Cell biology II
DECEMBER '20	UNIT III : Genetics I
JANUARY '21	UNIT IV : Genetics II
FEBRUARY '21	UNIT V : Evolution

IIB.Sc ZOOLOGY PAPER-IV ACADEMIC PLAN 2020-21

IV SEMESTER

MONTH	TOPIC COVERED
APRIL'21	Developmental biology & embryology
MAY'21	Physiology -I
JUNE'21	Physiology – II
JULY'21	Ecology -I
AUGUST'21	Ecology –II & Zoogeography

III B.Sc ZOOLOGY PAPER- V & VI ACADEMIC PLAN 2020-21

V SEMESTER

MONTH	TOPIC COVERED
OCTOBER'20	Paper V : Tools of recombinant technology Paper VI : Introduction to poultry farming
NOVEMBER'20	Paper V :Techniques of r DNA technology Paper VI: Poultry feed management
DECEMBER '20	Paper V: Animal cell technology Paper VI : Selection , care & handling of hatching eggs
JANUARY '21	Paper V: Reproductive technologies & transgenic animals Paper VI: Breeds of dairy cattle & buffaloes
FEBRUARY'21	Paper V: Applied biotechnology Paper VI: Care & management of animals

III B.Sc ZOOLOGY PAPER-VII (A) & VIII -B 1,2 & 3 ACADEMIC PLAN 2020-21

VI SEMESTER

MONTH	TOPIC COVERED
APRIL'21	Paper : VII (A) UNIT I - immune system , cells & organs of immune system Paper : VIII – B -1 : Basics of aquaculture Paper : VIII- B -2 : breeding & hatchery management Paper : VIII- B -3: handling & principles of fish preservation
MAY'21	Paper : VII (A) UNIT II : Antigens Paper : VIII – B -1 : types of aquaculture Paper : VIII- B -2 : water quality management Paper : VIII- B -3: methods of fish preservation
JUNE'21	Paper : VII (A) UNIT III : Antibodies Paper : VIII – B -1 : design & construction of aquafarms Paper : VIII- B -2 : feed management Paper : VIII- B -3: fish products & by-products
JULY'21	Paper : VII (A) UNIT IV : Working of immune system Paper : VIII – B -1 : management of carp culture ponds Paper : VIII- B -2 :disease management Paper : VIII- B -3: sanitation & quality control
AUGUST'21	Paper : VII (A) UNIT V :Health & disease , vaccines Paper : VIII – B -1 : culture shrimp Paper : VIII- B -2 : economics ,marketing , fisheries extension & fish genetics Paper : VIII- B -3: quality assurance , management &certification



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DEPARTMENT OF MATHEMATICS
B.Sc.(M.P.C&M.P.Cs) ACADEMIC PLAN 2020-2021
SEMESTER - I
PAPER – I- Differential Equations

MONTH	NAME OF THE TOPIC
February 2021	Differential Equations of first order and first degree
March 2021	Differential Equations of first order but not first degree Equations solvable for p,y,x.Clairaut,s Equation
April 2021	Higher order linear differential equation-I Solution of homogeneous & non homogeneous Equations
May 2021	Higher order linear differential equation-II Solution of non homogeneous equations with constant coefficients
June 2021	Higher order linear differential equation-III Method of variation of parameters

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DEPARTMENT OF MATHEMATICS
B.Sc.(MPC&MPCS) ACADEMIC PLAN 2020-2021
SEMESTER – III
PAPER- III- ABSTRACT ALGEBRA

MONTH	NAME OF THE TOPIC
November 2020	Introduction to Binary Operation and Group definition
December 2020	Sub groups –Complex definition ,theorems Product, union, Intersection of two subgroups , co-sets Lagrange's theorem
January 2021	Definition of Normal subgroups , intersection of two normal subgroups Index 2 is a normal sub group –quotient group criteria for the existence of a quotient group
February 2021	Definition of homomorphism –properties of homomorphism-isomorphism Kernel of a homomorphism-fundamental theorem on homomorphism and permutations
March 2021	Definition of permutation ,even and odd permutation Cayley's theorem

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B.Sc.(M.P.C&M.P.Cs) ACADEMIC PLAN 2020-2021
SEMESTER - V
PAPER –V – RING THEORY AND VECTOR CALCULUS

MONTH	NAME OF THE TOPIC
November 2020	Definition of ring , Field and basic properties
December 2020	Fundamental theorem ,maximal ideals, and prime ideals
January 2021	Vector definition ,Gradient, Divergence ,Curl operators
	Problems solving on this operators
February 2021	Line and surface integrals problems
	Volume integral problems
March 2021	Gauss,stokes and Green's theorems & problems

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DEPARTMENT OF MATHEMATICS
B.Sc.(M.P.Cs)ACADEMIC PLAN 2020-2021
SEMESTER - V
PAPER-VI- LINEAR ALGEBRA

MONTH	NAME OF THE TOPIC
November 2020	Vector space definitions Linear span ,linear independent, dependent of vectors
December 2020	Basis of vectors ,basis of extension theorems
	Dimension of a vector space , Dimension of a subspace
January 2021	Linear transformations ,Properties
	Rank and Nullity of linear transformations
February 2021	Matrices ,Inverse Matrices ,Rank of Matrices
	Characteristic values and vectors Cayley Hamilton theorem
March 2021	Inner product space orthonormal set , Gram-schmidt orthogonalisation process

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DEPARTMENT OF MATHEMATICS
B.Sc ACADEMIC PLAN 2020-2021
SEMESTER - II Paper II
THREE DIMENSIONAL ANALYTICAL SOLID GEOMETRY

MONTH	NAME OF THE TOPIC
July 2021	Equation of plane through the given points, bisectors of angles between two planes, orthogonal projection on plane
August 2021	Equation of a line angle between a line and a plane
	The shortest distance between two lines, length of the perpendicular from a given point to a given line
September & October 2021	Definition and equation of the sphere equation of the sphere through four given points
	Equation of circle sphere through a given circle tangent plane, plane of contact, polar plane, conjugate points & planes
November 2021	Definition of sphere and cone, enveloping cone Reciprocal of a cone

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DEPARTMENT OF MATHEMATICS
B.Sc ACADEMIC PLAN 2020-2021
SEMESTER - IV
Paper IV
REAL ANALYSIS

MONTH	NAME OF THE TOPIC
July 2021	Introduction of real numbers Monotone sequence Cauchy, general principle of convergence theorem
August 2021	Cauchy, general principle of convergence for series tests
	P-test, Cauchy, root test, D-Alembert's test
September & October 2021	Boundedness of a function, Limits of a function
	Infinite limits problems
November 2021	Differentiation and mean value theorems
	Riemann integration

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DEPARTMENT OF MATHEMATICS
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SEMESTER – VI
PAPER- VI B-NUMERICAL ANALYSIS

MONTH	NAME OF THE TOPIC
April 2021	Errors and their analysis, General error formula
May 2021	Bisection , iteration, Newton-Raphson methods
	Generalized Newton Raphson method, Muller's method
June 2021	Forward , Backward , central tables problems
	Symbolic relations problems
July 2021	Gauss's , Stirling,s formulas
August 2021	Error in Lagrange,s interpolation formula

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DEPARTMENT OF MATHEMATICS
B.Sc(M.P.C,M.P.Cs) ACADEMIC PLAN 2020-2021
SEMESTER - VI Paper -VIB1
ADVANCED NUMERICAL ANALYSIS

MONTH	NAME OF THE TOPIC
April 2021	Fitting of a straight line problems
May 2021	Derivatives using Newton's Forward ,Backward
June 2021	General quadrature formula , Trapezoidal rule
	Simpson's 1/3 and 3/8 rules
July 2021	Gauss Jordan , elimination , Seidel method
August 2021	Taylor,s series , Picard's method ,Runge – Kutta methods

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B.Sc(M.P.C,M.P.Cs)ACADEMIC PLAN 2020-2021
SEMESTER - VI Paper VI B2
SPECIAL FUNCTINS

MONTH	NAME OF THE TOPIC
April 2021	Hermite polynomial
May 2021	Laguerre polynomials
June 2021	Legender's Equation
	Recurrence formula for Legender's Equation
July 2021	Bessel's equation
August 2021	Beta & Gamma functions



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CLASS: I B.SC(MPC,MPCS) ,SEMESTER-1

TITLE OF THE PAPER : MECHANICS ,WAVES AND OSCILLATIONS

S.NO	MONTH	NAME OF THE UNIT (TOPIC)
1	january	Unit-1 : Mechanics of particles and Mechanics of the Rigid bodies
2	february	Unit-2: Motion in a central force field
3	march	Unit-3: Relative Mechanics
4	april	Unit-4: Un damped, Damped and forced Oscillations Coupled Oscillations
5	may	Unit-5: Vibrating strings Ultrasonics

CLASS: I B.SC(MPC,MPCS) ,SEMESTER-2

TITLE OF THE PAPER : WAVE OPTICS

S.NO	MONTH	NAME OF THE UNIT(TOPIC)
1	june	Unit-1 : Interference of Light
2	july	Unit-2: Diffraction of Light
3	auguest	Unit-3: Polarisation of Llight
4	september	Unit-4: Abberations and Fiber Optics
5	october	Unit-5: Lasers and Holography

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DEPARTMENT OF PHYSICS
ACADEMIC PLAN (2020-21)

CLASS: II B.SC(MPC,MPCS) ,SEMESTER-3

TITLE OF THE PAPER : HEAT AND THERMODYNAMICS

S.NO	MONTH	NAME OF THE UNIT (TOPIC)
1	november	Unit-1 : Kinetic theory of Gases
2	december	Unit-2: Thermodynamics
3	january	Unit-3: Thermodynamic potentials and Maxwell's Equations
4	february	Unit-4: Low temperature Physics
5	march	Unit-5: Quantum Theory of Radiation

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CLASS: II B.SC(MPC,MPCS) ,SEMESTER-4,PAPER-4

TITLE OF THE PAPER : ELECTRICITY,MAGNETISM & ELECTRONICS

S.NO	MONTH	NAME OF THE UNIT (TOPIC)
1	APRIL	Unit-1 : Electric field intensity and Potentials Dielectrics
2	MAY	Unit-2: Electric fields and Magnetic fields Electromagnetic Induction
3	JUNE	Unit-3: Alternating currents and Electromagnetic waves Maxwell's Equations
4	JULY	Unit-4: Basic Electronics
5	AUGUST	Unit-5: Digital Electronics

CLASS: II B.SC(MPC,MPCS) ,SEMESTER-4,PAPER-5

TITLE OF THE PAPER : MODERN PHYSICS

S.NO	MONTH	NAME OF THE UNIT(TOPIC)
1	NOVEMBER	Unit-1 : Atomic and Molecular Physics
2	DECEMBER	Unit-2: Matter waves & Uncertainty Principle
3	JANUARY	Unit-3: Quantum(Wave) Mechanics
4	FEBRUARY	Unit-4: General properties of Nuclei Radioactivity Decay
5	MARCH	Unit-5: Crystal Structure Super Conductivity

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CLASS: III B.SC(MPC,MPCS) ,SEMESTER-5,PAPER-5

TITLE OF THE PAPER : ELECTRICITY,MAGNETISM & ELECTRONICS

S.NO	MONTH	NAME OF THE UNIT (TOPIC)
1	APRIL	Unit-1 : Electric field intensity and Potentials Dielectrics
2	MAY	Unit-2: Electric fields and Magnetic fields Electromagnetic Induction
3	JUNE	Unit-3: Alternating currents and Electromagnetic waves Maxwell's Equations
4	JULY	Unit-4: Basic Electronics
5	AUGUST	Unit-5: Digital Electronics

CLASS: III B.Sc (MPC,MPCs) SEMESTER 6 Paper-VIII CLUSTERS

Month	Cluster-1 Solar thermal & Photo voltaic aspects	Cluster-2 Paper-VIII Wind,Hydro&Ocean Energies	Cluster-3 Energy storage devices Elective
APRIL	Unit-1 Basics of Solar radiationRadiative properties and Characteristic materials	Unit-1 Introduction to wind energy	Unit-1 Energy storage
MAY	Unit-2 Flat-Plate collectors(FPC)	Unit-2 Wind energy conversion systems	Unit-2 Electro, chemicalEnergy storage Systems
JUNE	Unit-3 Solar photo Voltaic cell	Unit-3 Wind energy applications	Unit-3 Magnetic and Electric Energy storage system
JULY	Unit-4 Solar PV Systems	Unit-4 Small Hydropower Systems	Unit-4 Fuel cell
AUGUST	Unit-5 Solar thermal applications	Unit-5 Ocean,thermal,Tidal and Wave energy Systems Tidal Energy	Unit-5 Types of Fuel cells

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DEPARTMENT OF CHEMISTRY
ACADEMIC PLAN 2020-21

I B.Sc., PAPER – I SEMESTER - I
(INORGANIC & PHYSICAL CHEMISTRY)

Month	Inorganic Chemistry	Organic Chemistry
February 2021	Unit-I Chemistry of P-Block Elements	Unit-III Solid State
March 2021	Unit-II Chemistry of d-Block Elements	Unit-IV Gaseous State
April 2021	Unit-II Chemistry of f-Block Elements	Unit-V Liquid State
May 2021	Unit-II Theories of Bonding in metals	Unit-V Solutions, Ionic Equilibrium & Dilute Solutions

I B.Sc., PAPER – II SEMESTER - II
(ORGANIC & GENERAL CHEMISTRY)

Month	Organic Chemistry	General Chemistry
July 2021	Unit-I Alkanes and Cycloalkanes	Unit-IV Surface Chemistry
August 2021	Unit-II Alkenes & Alkynes	Unit-IV Chemical Bonding
September 2021	Unit-II Benzene and its Reactivity	Unit-V Stereo Chemistry of Carbon Compounds
October 2021	Unit-III Benzene and its Reactivity	Unit-V Stereo Chemistry of Carbon Compounds

**II B.Sc., PAPER-III SEMESTER - III
(INORGANIC & ORGANIC CHEMISTRY)**

Month	Inorganic Chemistry	Organic Chemistry
November 2020	Unit-I Chemistry of D-Block Elements	Unit-III Halogen Compounds
December 2020	Theories of Bonding in metals	Unit-III Hydroxy Compounds
January 2021	Unit-II Metals Carbonyls & Related Compounds	Unit-IV Carbonyl Compounds
February 2021	Unit-II Chemistry of f-block elements	Unit-V Carboxylic Acids & their Derivatives

**II B.Sc., PAPER-IV - SEMESTER - IV
(SPECTROSCOPY & PHYSICAL CHEMISTRY)**

Month	Spectroscopy	Physical Chemistry
April 2021	Spectrophotometry	Dilute Solutions
May 2021	Molecular Symmetry	Electrochemistry-I
June 2021	Infrared Spectroscopy	Electrochemistry-II
July 2021	Proton Magnetic Resonance Spectroscopy	Phase Rule

III B.Sc., PAPER – V SEMESTER –V
(INORGANIC, ORGANIC & PHYSICAL CHEMISTRY)

Month	Inorganic Chemistry	Organic & Physical Chemistry
November 2020	Coordination Chemistry	Nitro Hydro Compounds
December 2020	Coordination Chemistry	Nitrogen Compounds
January 2021	Hard & Soft Acids	Thermodynamics
February 2021	Stability of Metal Complexes	Thermodynamics

III B.Sc., PAPER – VI SEMESTER –V
(INORGANIC, ORGANIC & PHYSICAL CHEMISTRY)

Month	Inorganic & Physical Chemistry	Organic Chemistry
November 2020	Reactivity of Metal Complexes	Heterocyclic Compounds
December 2020	Bioinorganic Chemistry	Carbohydrates
January 2021	Chemical Kinetics	Carbohydrates
February 2021	Photo Chemistry	Aminoacids & Proteins

**III B.Sc., SEMESTER –VI
(ELECTIVE & CLUSTER)**

Month	Elective VIIB Environmental Chemistry	Cluster Elective VIII-A1	Cluster Elective VIII-A2	Cluster Elective VIII-A3
April 2021	Introduction Air Pollution	Introduction of Polymers	Introduction to Spectroscopic methods of analysis	Analysis of the Analgesis, Anti Pyretics & Anti Histamine Drugs
May 2021	Water Pollution	Techniques of Polymerisation	Molecular Spectroscopy	Analysis of Anti Epileptic & Anti Convulsant Drugs
June 2021	Chemical Toxicology	Kinetics of free Radical Polymerisation	UV-Visible , Near IR Spectroscopy	Analysis of Milk & Milk Products
July 2021	Ecosystem & Biodiversity	Polymer Additives and their Applications	Separation Techniques Elemental Analysis	Clinical Analysis of Blood



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