

A.S.D.Government Degree College for WomenAn 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

2022-23
Minutes of Meeting
Proceeding of the Principal
Academic Calender
Teaching Plans

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	The Staff of the college met in the Principal's Namber on 06-06-2022 at 3.00 PM with Principal in chair to discuss on the academic matters and take resolutions.
	Paincipale chamber on 06-06-2022 at 3.00 PM
	with Principal in chair to discuss on the
	academic matters and take resolutions.
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	Agenda:
	1. Reopening of Collège on 06-06-2022 and Louriencement of classwork.
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	- roughenene of carrace.
	2. Status of Lyllabris completion of I Semester
	and commencement of Practicals and Sen
	2. Status of Lyllabrus Completion of IT Semester and Commence went of Practicals and Sen End Exams
	3. Person on the 7 & 17 Semester Results released recently.
	4. Conduct of Parents meeting to create augress
	on Students Intership and CRP.
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	5. Preparations for 2022-2023 Adrissions.
į.	6. Preparation of Academic Calendar of Institutional Plan
	for the academic year 2022-2023.
	Discussion: with the respensing of the College
	on 06-06-2022 after summer vacation Principal
	felt the read to discuss with the stap on the
	Communcement of B 4 TV Semester Clarente and napping
	Examination of Syllabras, Review of T4100 Senior and lake resolutions.
	Sen results and any other important aspects and
	to lake resolution.
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Resolutions: the studen

College and to give it for fainting for distribution to local or colleges and its also suched for the preparation of Hardbook 6 It is resolved to preparation of Hardbook and Institutional plan for the academic year 1012-2023 by the commuttees constituted by Principal. 1. Importing PRINCIPAL there PRINCIPAL there 1. Importing English. 2 must principal to the preparation of the principal of
Staff Present: Dept. 1. Junjalta English. 2. Manufalta Dept. 3. Manufalta Dept. 4. Manufalta Dept. 5. History & political science 4. P. Shaulta Dept. 1. Junjalta Dept. 2. Junjalta Dept. 2. Junjalta Dept. 3. Junjalta Dept. 4. Junjalta Dept. 2. Junjalta Dept. 3. Junjalta Dept. 4. Junjalta Dept. 5. Junjalta Dept. 5. Junjalta Dept. 6. Junjalta Dept. 6. Junjalta Dept. 7. Junjalta Dept. 8. Junjalta Dept. 9. Junjalta Dept. 1. Junjalta Dept. 1. Junjalta Dept. 1. Junjalta Dept. 1. Junjalta Dept. 2. Junjalta Dept. 2. Junjalta Dept. 3. Junjalta Dept. 4. Junjalta Dept. 5. Junjalta Dept. 6. Junjalta Dept. 7. Junjalta Dept. 9. Junjalta Dept. 9. Junjalta Dept. 1. Junjalta Dept. 1. Junjalta Dept. 1. Junjalta Dept. 2. Junjalta Dept. 3. Junjalta Dept. 4. Junjalta Dept. 4. Junjalta Dept. 5. Junjalta Dept. 6. Junjalta Dept. 7. Junjalta Dept. 9. Junjalta Dept.
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PROCEEDINGS OF THE PRINCIPAL, A.S.D.GOVT DEGREE COLLEGE FOR WOMEN [AUTONOMOUS], KAKINADA

Present: Dr.V.Anantha Lakshmi, M.Sc., M.Phil., Ph.D.

<u>Rc.No:Spl/B2/2022</u> <u>Dated: 06-06-2022</u>

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 2022-2023

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ORDER:

The following members are nominated for the preparation of Academic Calendar and Institutional Plan for the academic year 2022-2023

. Dr.V.Ananthalakshmi	Principal	

2. Ms.M.Suvarchala Vice Principal

3. Ms.M.Vasantha Lakshmi IQAC Coordinator

4. Dr.K.Lavanya Academic Coordinator

5. Dr.P.Sanjotha Asst. Academic Coordinator

6. Dr.K. Yamuna Controller of Examinations (COE)

AUTONOMOUS

Copy to the Concerned Members Copy to the Principal's table

A.S.D.GOVT.DEGREE COLLEGE (W. AUTONOMOUS KAKINADA

V. Asouta latchini H. Suvarchala

A.S.D.GOVERNMENT DEGREE COLLEGE FOR WOMEN(AUTONOMOUS)KAKINADA (Affiliated to AdikaviNannaya University – Rajamahendravaram) TENTATIVE ACADEMIC CALENDER 2022-23

Sl.No.	Particulars	I Year	II Year	III Year
		I Semester	III Semester	V Semester
1	Induction Programme to newly admitted students	20.10.2022	-	-
2	Commencement of Odd Semester Class Work	31.10.2022	31.10.2022	10.12.2022
3	1 st Internal Examinations	28.12.2022 onwards	28.12.2022 onwards	09.02.2023 onwards
4	2 nd Internal Examinations	19.01.2023 onwards	19.01.2023 onwards	01.03.2023 onwards
5	Last day of Instruction	14.02.2023	14.02.2023	15.03.2023
6	Last date for submission of attendance particulars	14.02.2023	14.02.2023	15.03.2023
7	Odd Semester End Practical Examinations	15.02.2023 onwards	15.02.2023 onwards	16.03.2023
8	Odd Semester Theory End Examinations	24.02.2023 onwards	24.02.2023 onwards	28.03.2023
		II Semester	IV Semester	VI Semester
9	Commencement of Even Semester Class Work	06.03.2023	06.03.2023	05.04.2023 (OJT)
10	I st Internal Examinations	10.04.2023 onwards	10.04.2023 onwards	-
11	2 nd Internal Examinations	07.05.2023 onwards	07.05.2023 onwards	-
12	Last day of Instruction	06.06.2023	06.06.2023	05.07.2023
13	Last Date for submission of attendance particulars	06.06.2023	06.06.2023	05.07.2023
14	Even Semester End Practical Examinations	07.06.2023	07.06.2023	-
15	Even Semester Theory End Examinations	19.06.2023	19.06.2023	-
16	Sem-end Community Service Project/Internship	25.06.2023	25.06.2023	-
17	Re-opening day for Academic Year 2023-24	04.08.2023	04.08.2023	-





English - Annual Academic Plan Semester –I 2022-2023

Month	Paper I- A course in communication and soft skills	
October 2022	Introduction to Syllabus and Model Question Paper	
November 2022	I-Unit Listening Skills 1. Importance of Listening 2. Types of Listening 3. Barriers to Listening 4. Effective Listening	
December 2022	II-Unit Speaking Skills 1. Sounds of English: Vowels and Consonants 2. Accent 3. Intonation III-Unit Grammar a. Concord b. Modals c. Tenses d. Articles	
January 2023	e. Prepositions f. Question Tags g. Sentence Formation h. Error Correction IV-Unit Writing 1. Punctuation 2. Spelling 3. Paragraph Writing	
February 2023	V-Unit: Soft Skills 1. SWOC 2. Attitude 3. Emotional Intelligence 4. Telephone Etiquette 5. Interpersonal Skills	

English- Annual Academic Plan Semester –II 2022-2023

2022-2025			
Month Paper-II			
	Reading and Writing Skills		
March 2023	I. UNIT Prose: 1. How to Avoid Foolish Opinions Bertrand Russell Skills: 2. Vocabulary: Conversion of Words 3. One Word Substitutes 4. Collocations 5. One Word Substitutes 6. Collocations		
April 2023	3. One Word Substitutes 4. Collocations II. UNIT Prose: 1. The Doll House by Katherine Mansfield Poetry: 2. Ode to the West Wind by P B Shelley Non-Detailed Text: 3. Florence Nightingale by Abrar Moshin Skills 4. Skimming and Scanning		
May 2023	III. UNIT Prose: 1. The Night Train at Deoli Ruskin Bond Poetry 2. Upagupta Rabindranath Tagore		
June 2023	III. UNIT Skills: 3. Reading Comprehension Note Making/Taking IV. UNIT Poetry: 1. Coromandel Fishers Sarojini Naidu Skills: 2. Expansion of Ideas 3. Notices, Agendas and Minutes		
July 2023	V. UNIT Non-Detailed Text: 1. An Astrologer's Day- R K Narayan Skills: 2. Curriculum Vitae and Resume : 3. Letters : 4. E-Correspondence		

English- Annual Academic Plan

Semester –III

Month	Paper -III Conversational Skills
October 2022	Introduction to Syllabus and Model Question Paper
November 2022	Unit -I Speech: 1. Tryist with Destiny Jawaharlal Nehru Skills: 2. Greetings 3.Introductions
December 2022	Unit – III Speech: 1. Yes, We Can Barack Obama Interview: 2. A Leader Should Know How to Manage Failure Dr.A.P.J.Abdul Kalam/ India Knowledge at Wharton Skills: 3. Requests
January 2023	Unit – III Interview: 1. Nelson Mandela's Interview with Larry King Skills: 2. Asking and Giving Information 3. Agreeing and Disagreeing Unit – IV Interview: 1. JRD Tata's Interview with T.N. Ninan Skills: 2. Dialogue Building 3. Giving Instructions/Directions
ebruary 2023	Unit – V Speech: 1. You've Got to Find What You Love Steve Jobs Skills: 2. Debates 3. Descriptions 4. Role Play

P. Shanth Lee in change of the Dept of English

A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

ASD GOVERNMENT COLLEGE FOR WOMEN (A) KAKINADA DEPARTMENT OF TELUGU ACADEMIC PLAN 2022-23 I SEMESTER GENERAL TELUGU

MONTH	GENERAL TELUGU- PRACHEENA TELUGUKAVITVAM
OCTOBER	RAJANEETHI
OCTOBER & NOVEMBER	RAJANEETHI & PARVATHI KAPATAVATU SAMVADAM VYAKARANAM
DECEMBER	DHOUMYA DHARMOPÀDESAM VYAKARANAM
JANUARY	PALANATI BEBBULI VYAKARANAM
FEBRUARY	SEETHAARAVANA SAMVADAM VYAKARANAM

ASD GOVERNMENT COLLEGE FOR WOMEN (A) DEPARTMENT OF TELUGU ACADEMIC PLAN 2022-23

II SEMESTER GENERAL TELUGU

MONTH	GENERAL TELUGU - AADHUNIKA KAVITVAM
MARCH	AADHUNIKA KAVITVAM PARICHAYAM- KONDAVEEDU- MATRUSANGEETHAM
APRIL	TATAKO NOOLUPOGU, TELUGUKATHA PARICHAYAM - BHAYAM, SWEDAMKHAREEDU KATHALU
MAY	TELUGU NAVALA PARICHAYAM RATHACHAKRALU NAVALA, SAMEEKSHA VYASAM
JUNE	TELUGU NATAKA PARICHAYAM YAKSHAGANAM NATAKA, SAMEEKSHAVYASAM
JULY	TELUGU SAHITYA VIMARSA- PARICHAYAM, VIMARSA SWAROOPASWABHAVALU, UTTAMA VIMARSAKUDU- LAKSHANALU

ASD GOVERNMENT COLLEGE FOR WOMEN (A) DEPARTMENT OF TELUGU ACADEMIC PLAN 2022-23

SEMESTER III GENERAL TELUGU & SPECIAL TELUGU

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

ASD GOVERNMENT COLLEGE FOR WOMEN (A) DEPARTMENT OF TELUGU

ACADEMIC PLAN 2022-23 IV SEMESTER SPECIAL TELUGU

MONTH	PAPER- IV AADHUNIKA TELUGU SAHITYA CHARITRA	PAPER- V AADHUNIKA TELUGU SAHITYA VIMARSA
MARCH	AADHUNIKA KAVITVAM- AAVIRBHAVA VIKASALU	KALALU- KAVYAM/KAVITVAM
APŘIL	BHAVA KAVITVAM	KAVYA HETHUVULU, PRAYOJANALU. BHEDALU
MAY	ABHYUDAYA, VIPLAVA KAVITVALU	RASA TATHTHVAM
JUNE	VACHANA KAVITVAM	DWANI
JULY	SAMAKALEENA AADHUNIKA KAVITHAA DHORANULU	SAMPRADAYA SAHITYAM – VIMARSA PADHDHATHULU

ASD GOVERNMENT COLLEGE FOR WOMEN (A), KAKINADA DEPARTMENT OF TELUGU ACADEMIC PLAN 2022-23 V SEMESTER SPECIAL TELUGU

MONTH	SPECIAL TELUGU PAPER- VI- A	SPECIAL TELUGU PAPER- VII-A
MONTH	SPECIAL TELUGURAPER- VI-A	SPECIAL TELEGOTATER VIII
	TELUGU BHASHA SWAROOPAM	TELUGU RACHANA REETHULU
DECEMBER	TELUGU VYAKARANA PARICHAYAM	TELUGU RACHANA REETHULU
	TLEGGE VIALUIGITATION	PARICHAYAM
JANUARY	SANDHI- SAMASAM	TELUGU RACHANA REETHULU -
		PRASARA SAMAJIKA MADHYAMALU
FEBRUARY	KRIYAA VIJNANAM	ARTHA PARINAMA, DWANI PARINAMA
Librorite		REETHULU
MARCH	VAAKYA VIJNANAM	MANDALIKA VIJNANAM
		CONTRACTOR OF THE WOLL
APRIL	VAAKYA PRAYOGA REETHULU	SRUJANA RAMGAMLO TELUGU

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A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

DEPARTMENT OF HINDI

ACADEMIC PLAN 2022-23

I SEMESTER ACADEMIC PLAN

MONTH	PAPER-I	UG – Life Skill Course (2022-23) Human Values and Professional ethics
OCTOBER	BRIDGE COURSE	Introduction, Definition, Importance, Process & Classifications of Value Education
OCTOBER & NOVEMBER	1.भारतीय सहित्य की एकता 2. आत्म निर्भरता 3. लिंग 4. कार्यालयीन शब्दावली	Classification Of Value Education: Understanding Personal Values, Social Values, Moral Values & Spiritual Values
DECEMBER	1.अंदर की पवित्रता 2. ठकुर का कुँ आ 3. वचन	Harmony In the Family – Understanding Values in Human Relationships.
JANUARY	1.वापसी 2. सदाचार की ताबीज 3.विलोम शब्द 4. छुट्टी पत्र	Professional Ethics in Education: Understanding about Professional Integrity, Respect & Equality, Privacy, Building Trusting Relationships.
FEBRUARY	1.पत्र लेखन -पिताजी के पत्र 2.काल -वर्तमान काल, भूथ काल, भविश्ष्त् 3.पुस्तक विक्रेता के नाम पत्र 4.कारक चिह्न	Need for Value Education in the Present Day Professional Oriented Education.

Dep In- charge

A Swatti

DEPARTMENT OF HINDI

ACADEMIC PLAN 2022-23

II SEMESTER ACADEMIC PLAN

MONTH	PAPER-II:	LIFE SKILL COURCE - INDIAN CULTURE AND SCIENCE
MARCH	 1.भारत मे सन्स्कृति संगम – राम्धारि सिम्ह दिन्कर. 2.समय पर मिल्नेवाला - हरिशन्कर पर्साई. 3. कारक चिह्न 	Unity in Diversity in India - Coexistence of Various Religions since ancient times Hinduism, Buddhism, Jainism, Islam, and Christianity.
APRIL	 हार की जीत – सुदर्शन पुरष्कार - जयशन्कर प्रसाद हिन्दी-अंग्रेजी कार्यालयीन शब्दावली 	The Bhakti and Sufi Movements, Achievements in Literature, Cultural diversity, Importance of Seasonal Festivals.
MAY .	 1. HIV AIDS 2. सेवा - ममता कालिया 3. हिन्दी अंग्रेजी पदनाम 	Social Reforms and Modern Society- Raja Rama Mohan Roy, Dayananda Saraswathi, Swamy Vivekananda etc.
JUNE	 पत्र लेखन - आवेदन पत्र शिकायती पत्र काल 	Science and Technology – Online Education, Developments in Industry, Agriculture, Medicine etc.

Dep In-charge

(A. Swith)

DEPARTMENT OF HINDI

ACADEMIC PLAN 2022-23

III SEMESTER ACADEMIC PLAN

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OCTOBER	1.व्याकरण कारक चिहन काल	# 15 ×
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OCTOBER &	1.साखी-दोहे-कबीरदास	-
NOVEMBER	2.बालवर्णन, विनय-सूरदास	e e e e e
	3.परिपत्र	
	4.विश्व भाषा के रूप में हिंदी	
DECEMBER	1.आगे बढो ऊँचे-चदो मैथिली	Value value
	शरण गुप्त	
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	चले-माखन लाल चतुर्वेदी।	
	3. कार्यालयीन झापन	
	4., मेरा प्रिय कवि	
JANUARY .	1.हिंदी साहित्य का इतिहास -काल	1 7
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= <u> </u>	2. भक्ति.काल की शाखायएँ आँर	
	विशेषतए।	
	3.अधिसूचना	
(X)	4.अनुवाद	
FEBRUARY	1.भक्ति काल में ञानाश्रयी शाखा-	
	कबीर	
	2.भक्ति काल में ञानाश्रयी शाखा	N.
	जायसो	
	3.अनुवाद अंगेजी से हिंदी 4.भारत की वर्तमान परिस्तितियौ	1 1000
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A.S.D.GOVT.DEGREE COLLEGE (W)
AUTONOMOUS

DEPARTMENT OF SANNSKRIT

ACADEMIC PLAN 2022-23

I SEMESTER ACADEMIC PLAN

MONTH	PAPER-I	UG – Life Skill Course
	1741 214 1	(2022-23) Human Values
		and Professional ethics
		and Professional ethics
OCTOBER	BRIDGE COURSE	Introduction, Definition,
		Importance, Process &
		Classifications of Value
		Education
OCTOBER &	1. आर्यपादुकभिषेकः I	Classification Of Value
NOVEMBER	2. श्लोकपूरणं तथा भावं।	Education: Understanding
	3 यक्षप्रश्लेषु :	Personal Values, Social
	4. विधाटयत्।	Values, Moral Values &
		Spiritual Values
DECEMBER	1 inomaly — M	1.74
DECEMBER	1. यक्षप्रश्लेषु वर्णीतान्	Harmony In the Family –
	लौकिकधर्मान्	Understanding Values in
	2. विग्रह्वाक्यानि	Human Relationships.
	3. परस्मैपदिनःभू(लट्)	
JANUARY	1. विवेकानन्दसूक्तयः	Des Construction
	2. श्रुगालःकथंलगुडेन मारितः	Professional Ethics in
	- The control of the	Education: Understanding about Professional Integrity,
	 अहिंसां परमो धर्मः। ग्रुहमागते आरविप 	Respect & Equality, Privacy,
	श्रुरुमागत जारवाप आथित्यंकार्यमुचितम्।	Building Trusting
	जावित्वग्रवमुचितम्।	Relationships.
FEBRUARY	1. संन्धत्ता।	Need for Value Education in
	2. वीरवरः कथं स्वमिभक्तिं	the Present Day Professional
	प्रदर्शवान्।	Oriented Education.
	3. शब्दा रुपाणि।	
;	अकारन्तः पुंलिन्डा शब्दाः	
	4. शब्दा रुपाणि।	
	इकारान्तः स्त्रीलिन्डा	
	शब्दाः।	
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DEPARTMENT OF SANSKRIT

ACADEMIC PLAN 2022-23

II SEMESTER ACADEMIC PLAN

MONTH	PAPER-II:	LIFE SKILL COURCE - INDIAN CULTURE AND SCIENCE
MARCH	 इन्दुमती स्वयम्वरम्। पु.लिन्ड शब्दाः। बुद्दचरितम्। स्त्रि लिन्ड शब्दाः । 	Unity in Diversity in India - Coexistence of Various Religions since ancient times Hinduism, Buddhism, Jainism, Islam, and Christianity.
APRIL	 गंडावतरणम्। श्लोक भगम् । व्याकरण परिचयम् । 	The Bhakti and Sufi Movements, Achievements in Literature. Cultural diversity, Importance of Seasonal Festivals.
MAY	 मोहपनोदा बुद्दचरितम्। अवन्तिसुन्दिर कथ। 	Social Reforms and Modern Society- Raja Rama Mohan Roy, Dayananda Saraswathi, Swamy Vivekananda etc.
JUNE	 दरिद्रछारुदत्त् चरितम्। शब्ध परिचयम्। धात :रूपाणि। 	Science and Technology – Online Education, Developments in Industry, Agriculture, Medicine etc.

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DEPARTMENT OF SANSKRIT

ACADEMIC PLAN 2022-23

OCTOBER	III SEMESTER ACADEMIC PL	LAN
	1.रुपकविभागम् ।	
	2. मद्यम व्ययोगम्	
OCTOBER & NOVEMBER	 आधुनिक रूपक विभागम् संकल्पभलम् । 	V
. 8	2. उपनिषद् विभागम्	
DECEMBER	"दा "कार कथ	
	 सिश्यानुशशनम्। अलंड्कार विभागम् 	
ANUARY	1.व्याकरण विभागम् I	-
	2. शस्त्रकार विभागम्	
EBRUARY	1 Verent the man	
	1.श्रद्दात्रय विभागयोगम्- उपनिषद् विभागम्	
	2.त्रिषुलिंडेषु सर्व नामश्ब्दाणि	

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A.S.D.GOVT.DEGREE COLLEGE FOR WOMEN (A) KAKINADA



DEPARTMENT OF MATHEMATICS

ACADEMIC PLAN 2022-2023

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF MATHEMATICS B.Sc.(M.P.C&M.P.Cs,M.S.Cs) ACADEMIC PLAN 2022-2023 SEMESTER - I PAPER - I- Differential Equations

MONTH	TH NAME OF THE TOPIC	
OCTOBER 2022	Differential Equations of first order and first degree	
NOVEMBER	Differential Equations of first order but not first degree	
2022	Equations solvable for p,y,x.Clairaut,s Equation	
DECEMBER 2022	Higher order linear differential equation-I	
	Solution of homogeneous &non homogeneous Equations	
JANUARY 2023	Higher order linear differential equation-II	
	Solution of non homogeneous equations with constant coefficients	
FEBRUARY 2023	Higher order linear differential equation-III	
	Method of variation of parameters	

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF MATHEMATICS B.Sc.(MPC&MPCS)ACADEMIC PLAN 2021-2022 SEMESTER – III PAPER- III- ABSTRACT ALGEBRA

MONTH	NAME OF THE TOPIC Introduction to Binary Operation and Group definition	
NOVEMBER 2022		
DECEMBER	Sub groups -Complex definition ,theorems	
2022 Product, union, Intersection of two su	Product, union, Intersection of two subgroups, co-sets Lagrange's theorem	
JANUARY 2023	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 2023	Definition of homomorphism —properties of homomorpism-isomorphism Kernel of a homomorphism-fundamental theorem on homomorphism and permutations	
MARCH 2023	Rings definition Boolean rings division ring and fields characteristic of a field sub ring	

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF MATHEMATICS B.Sc(M.P.C&M.P.Cs) ACADEMIC PLAN 2022-2023 SEMESTER - V

PAPER -VIA -NUMERICAL METHODS

MONTH	NAME OF THE TOPIC	
DECEMBER 2022	Symbolic relations Differences of functions	
JANUARY 2023	Interpolation formulas, Differentiation for Interpolation formulas	
FEBRUARY 2023	Maximum and minimum values of a tabulated function, General quadrature formula on errors	
MARCH	General quadrature formula on errors	
2023	Euler Mclaurin formula, Runge Kutta methods	

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF MATHEMATICS B.Sc.(M.P.C&M.P.Cs)ACADEMIC PLAN 2022-2023 SEMESTER - VIB

PAPER-VI- MATHEMATICAL SPECIAL FUNCTION

MONTH	NAME OF THE TOPIC	
DECEMBER 2021	Chebyshev polynomials, Beta Gamma function	
JANUARY 2023	Power series , singular points regular and irregular singular points	
	Hermite polynomials, orthogonal properties	
FEBRUARY 2023	Find first few Hermite Polynomials	
	Legendre polynomials recurrence formulas	
MARCH 2023	Bessel's equation, first kind second kind	

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF MATHEMATICS B.Sc(M.P.C&M.P.Cs,M.S.Cs) ACADEMIC PLAN 2022-2023 SEMESTER - II

THREE DIMENTIONAL ANALYTICAL SOLID GEOMETRY

MONTH	NAME OF THE TOPIC		
APRIAL, MAY 2023	Equation of plane through the given points, bisectors of angles between two planes, orthogonal projection on plane		
JUNE 2023	Eqution of a line angle between a line and a plane The shortest distance between two lines, length of the perpendicular from a given points to a given line		
JULY 2023	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		
AUGUST 2023	Definition of sphere and cone ,enveloping cone Reciprocal of a cone		

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF MATHEMATICS B.Sc (M.P.C&M.P.Cs) ACADEMIC PLAN 2022-2023 SEMESTER - IV REAL ANALYSIS

MONTH	NAME OF THE TOPIC	
APRIL ,MAY 2023	Introduction of real numbers Monotone sequence Cauchy,s general principal of convergence theorem	
JUNE 2023	Cauchy,s general principal of convergence for series tests	
	P-test, Cauchy,s root test,D-Alemberts test	
JULY 2023	Boundedness of a function, Limits of a functions	
	Infinite limits problems	
AUGUST	Differentiation and mean value theorems	
2023	Riemann integration	

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF MATHEMATICS B.Sc(M.P.C&M.P.Cs) ACADEMIC PLAN 2022-2023 SEMESTER - IV LINEAR ALGEBRA

MONTH	NAME OF THE TOPIC
APRIL, MAY 2023	Vector space definitions Linear span,linear independent, dependent of vectors
JUNE 2023	Basis of vectors ,basis of extension theorems Linear transformations ,Properties
JULY 2023	Rank and Nullity of linear transformations Characteristic values and vectors Cayley Hamilton theorem
AUGUST 2023	Inner product space orthonarmal set, Gramschmidt orthogonalisation process

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

DEPARTMENT OF PHYSICS

ANNUAL ACADEMIC PLAN 2022-23

IB.Sc.,-Physics-I/ISemester

Mechanics, Waves and Oscillations

MONTH	TOPI C
November 2022	 UNIT-I: Mechanics of Particles Review of Newton's Laws of Motion, Motion of variable mass system, Motion of a rocket, Multistage rocket, Concept of impact parameter, scattering cross-section, Rutherford scattering-Derivation. 1. Mechanics of Rigid bodies Rigid body, rotational kinematic relations, Equation of motion for a rotating body, Angular momentum and Moment of inertia tensor, Euler equations, Precession of a spinning top, Gyroscope, Precession of the equinoxes
December 2022	Unit-II: 2. Motion in a Central Force Field Central forces, definition and examples, characteristics of central forces, conservative natureof central forces, Equation of motion under a central force, Kepler's laws of planetary motion-Proofs, Motion of satellites, Basic idea of Global Positioning System (GPS), weightlessness, Physiological effects of astronauts

January 2023	3. Relativistic Mechanics Introduction to relativity, Frames of reference, Galilean transformations, absolute frames, Michelson-Morley experiment, negative result, Postulates of Special theory of relativity, Lorentz transformation, time dilation, length contraction, variation of mass with velocity, Einstein's mass- energy relation
February 2023	Unit-IV: Undamped, Damped and Forced oscillations: Relaxation time and Quality factor Coupled oscillations: Coupled oscillators-Introduction, Two coupled oscillators, Normal coordinates and Normalmodes
March 2023	 Unit-V: 4. Vibrating Strings: Transverse wave propagation along a stretched string, General solution of wave equation and its significance, Modes of vibration of stretched string clamped at ends, Overtones and Harmonics 5. Ultrasonics: Ultrasonics, General Properties of ultrasonic waves, Production of ultrasonics by piezoelectric and magnetostrictionmethods, etection of ultrasonics, Applications of ultrasonic waves, SONAR

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

DEPARTMENT OF PHYSICS

ANNUALACADEMICPLAN2022-23

Course II: Wave Optics

MONTH	TOPIC
April 2023	UNIT-I Interference of light: (12hrs)Introduction, Conditions for interference of light, Interference of light by division of wave front and amplitude,Phase change on reflection- Stokes' treatment, Lloyd's single mirror,Interference in thin films: Plane parallel and Determination of wavelength of monochromatic light, Michelson interferometer and determination of wavelength. Determination of wavelength of monochromatic light, Michelson interferometer and determination of wavelength
May 2023	UNIT-II Diffraction of light: (12hrs) Introduction, Types of diffraction: Fresnel and Fraunhoffer diffractions, Distinction between Fresnel and Fraunhoffer diffraction, Fraunhoffer diffraction at a single slit, Plane diffraction grating, Determination of wavelength of light using diffraction grating, Resolving power of grating, Fresnel's half period zones, Explanation of rectilinear propagation of light, Zone plate, comparison of zone plate with convex lens.

	UNIT-III Polarisation of light:(12hrs)
June 2023	Polarized light: Methods of production of plane polarized light, Double refraction, Brewster's law, Malus law, Nicol prism, Nicol prism as polarizer and analyzer, Quarter wave plate, Half wave plate, Plane, Circularly and Elliptically polarized light-Production and detection, Optical activity, Laurent's half shade polarimeter: determination of specific rotation,
	UNIT-IV Aberrations and Fibre Optics: (12hrs)
	Monochromatic aberrations, Spherical aberration, Methods of minimizing
July 2023	spherical aberration, Coma, Astigmatism and Curvature of field, Distortion;
	Chromatic aberration-the achromatic doublet; Achromatism for two lenses (i)
	in contact and (ii) separated by a distance.
	Fibre optics: Introduction to Fibers, different types of fibers, rays and modes in an optical fiber, Principles of fiber communication (qualitative treatment only), Advantages of fiber optic communication.
	UNIT-V Lasers and Holography:(12hrs)
August 2023	Lasers: Introduction, Spontaneous emission, stimulated emission, Population Inversion, Laser principle, Einstein coefficients, Types of lasers-He-Ne laser, Ruby laser, Applications of lasers; Holography: Basic principle of holography, Applications of holography.

A.S.D GOVERNMENT DEGREE COLLEGE FOR WOMEN (A)KAKINADA DEPARTMENT OF PHYSICS

ANNUALACADEMICPLAN2022-2023 III Semester-Paper-III

II Year B.Sc.-Physics: III Semester

Course-III: HEAT AND THERMODYNAMICS

MONTH	TOPIC
NOVEMBE R 2022	UNIT-I: Kinetic Theory of gases: Kinetic Theory of gases-Introduction, Maxwell's law of distribution of molecular velocities (qualitative treatment only) and its experimental verification, Mean free path, Degrees of freedom, Principle of equipartition of energy (Qualitative ideas only), Transport phenomenon in ideal gases: viscosity, Thermal conductivity and diffusion of gases. UNIT-II: Thermodynamics: Introduction- Isothermal and Adiabatic processes, Reversible and irreversible processes, Carnot's engine and its efficiency, Carnot's theorem, Thermodynamic scale of temperature
DECEMB ER 2022	and its identity with perfect gas scale, Second law of thermodynamics: Kelvin's and Clausius statements, Principle of refrigeration, Entropy, Physical significance, Change in entropy in reversible and irreversible processes; Entropy and disorder-Entropy of Universe; Temperature-Entropy (T-S) diagram and its uses; change of entropy when ice changes into steam.

JANUAR Y2023	UNIT-III: Thermodynamic Potentials and Maxwell's equations: Applications to (i) Clausius-Clayperon's equation (ii) Value of CP-CV (iii) Value of CP/CV (iv) Joule-Kelvin coefficient for ideal gases. UNIT-IV: Low temperature Physics: Liquefaction of air by Linde's method, Production of low temperatures by adiabatic demagnetization (qualitative), Practical applications of substances at low temperatures.
FEBRUA RY2023	UNIT-V: Quantum theory of radiation: radiation-Derivation, Deduction of Wein's law and Rayleigh-Jean's law from Planck's law, Solar constant and its determination using Angstrompyroheliometer, Estimation of surface temperature of Sun.

A.S.D GOVERNMENT DEGREE COLLEGE FOR WOMEN (A)KAKINADA DEPARTMENTOF PHYSICS

ANNUAL ACADEMIC PLAN2022-2023 IIB.Sc.PHYSICS IV Semester

PAPER-IV: Course-IV: ELECTRICITY, MAGNETISM AND ELECTRONICS

MONTH	TOPIC
March 2023	
	UNIT-I
	1. Electrostatics: (6hrs)
	Gauss's law-Statement and its proof, Electric field intensity due to
	(i) uniformly charged solid sphere and (ii) an infinite conducting
	sheet of charge, Deduction of Coulomb's law from Gauss law,
	Electrical potential-Equipotential surfaces, Potential due to a (i)
	dipole (ii)uniformly charged sphere
	2.Dielectrics:
	Dielectrics-Polar and Non-polar dielectrics- Effect of electric field
	on dielectrics, Dielectric strength, Capacitance of a parallel plate
	condenser with dielectric slab between the plates, Electric
	displacement D, electric polarization P,Relation between D, E and P,
	Dielectric constant and electric susceptibility.

UNIT-II 1.Magnetostatics: Biot-Savart's law and its applications: (i) circular loop and (ii) April 2023 solenoid, Divergence and curl of magnetic field, Ampere's Circuital Law and its application to Solenoid, Hall effect, determination of Hall coefficient and applications. **2.**Electromagnetic Induction: Faraday's laws of electromagnetic induction, Lenz's law, Self induction and Mutual induction, Self inductance of a long solenoid, Mutual inductance of two coils, Energy stored in magnetic field, Eddy currents and Electromagnetic damping May 2023 UNIT-III 1. Alternating currents: **3.** Alternating current - Relation between current and voltage in LR and CR circuits, Phasor and Vector diagrams, LCR series and parallel resonant circui **4.**Electromagnetic waves-Maxwell's equations: (6 hrs) Idea of displacement current, Maxwell's equations-Derivation, Maxwell's wave equation (with derivation), Transverse nature of electromagnetic waves, Poynting theorem (Statement

andproof)

June 2023

UNIT-IV

1. Basic Electronic devices: (12 hrs)

PN junction diode, Zenerdiode and Light Emitting Diode (LED) and their I-V characteristics, Zener diode as a regulator- Transistors and its operation, CB, CE and CC configurations, Input and output characteristicsofa transistor in CE mode, Relation between alpha, beta and gamma; Hybrid parameters, Determination of hybrid parameters from transistor characteristics; Transistor as an amplifier.

AUGUST2023

UNIT-V:

1. Digital Electronics: (12 hrs)

Number systems, Conversion of binary to decimal system and vice versa, Binary addition & Binary subtraction (1's and 2's complement methods), Laws of Boolean algebra, DeMorgan's laws-Statements and Proofs, Basic logic gates, NAND and NOR as universal gates, Exclusive-OR gate, Half adder and Full adder circuits.

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ANNUALACADEMICPLAN2022-2023

IIB.Sc.PHYSICS IV Semester

PAPER-IV: Course-V: Modern Physics

MONTH	TOPIC
March 2023	UNIT-I: 1. Atomic and Molecular Physics: (12 hrs) Vector atom model and Stern-Gerlach experiment, Quantum numbers associated with it, Angular momentum of the atom, Coupling schemes, Spectral terms and spectral notations, Selection rules, Intensity rules, Fine structure of Sodium D-lines, Zeeman effect, Experimental arrangement to study Zeeman effect; Raman effect, Characteristics of Raman effect,

Experimental arrangement to study Raman effect, Quantum theory of Ramaneffect, Applications of Raman effect.

April 2023

UNIT-II:

1. Matter waves&Uncertainty Principle: (12 hrs)

Matter waves, de Broglie's hypothesis, Wave length of matter waves, Properties of matter waves, Davisson and Germer's experiment, Phase and group velocities, Heisenberg's uncertainty principle for position and momentum& energy and time, Illustration of uncertainty principle using diffraction of beam of electrons (Diffraction by a single slit)and photons(Gamma ray microscope),Bohr's principle of complementarit

May 2023

2. Quantum (Wave) Mechanics:(12 hrs)

Basic postulates of quantum mechanics, Schrodinger time independent and time dependent wave equations-Derivations, Physical interpretation of wave function, Eigen functions, Eigen values, Application of Schrodinger wave equation to (i) one dimensional potential box of infinite height(InfinitePotential Well) and (ii) one dimensional harmonic oscillator

June 2023

UNIT-IV:

3. Nuclear Physics: (12 hrs)

Nuclear Structure: General Properties of Nuclei, Mass defect, Binding energy; Nuclear forces: Characteristics of nuclear forces-Yukawa's meson theory; Nuclear Models: Liquid drop model, The Shell model, Magic numbers; Nuclear Radiation detectors: G.M. Counter, Cloud chamber, Solid State detector; Elementary Particles:

	Elementary Particles and their classification
July 2023	4. Nano materials:(7hrs) Nanomaterials – Introduction, Electron confinement, Size effect, Surface to volume ratio, Classification of nano materials– (0D, 1D, 2D); Quantum dots, Nano wires, Fullerene, CNT, Graphene(Mention of structures and properties),Distinct properties of nano materials (Mention-mechanical,optical, electrical, and
August 2023	 magnetic properties); Mention of applications of nano materials: (Fuel cells, Phosphors for HD TV, Next Generation Computer chips, elimination of pollutants, sensors) 5. Superconductivity: Introduction to Superconductivity, Experimental results-critical temperature, critical magnetic field, Meissner effect, Isotope effect, Type I and Type II superconductors, BCS theory (elementary ideas only), Applications of superconductors

A.S.D GOVERNMENT DEGREE COLLEGE FOR WOMEN (A)KAKINADA DEPARTMENT OF PHYSICS

ANNUALACADEMICPLAN 2022-2023

IIIB.Sc.PHYSICS VSemester Paper–VI Paper VI (B): LOW TEMPARATURE PHYSICS

MONTH	TOPIC
December 2022	UNIT-I PRODUCTION OF LOW TEMPERATURE (10 hrs) Production of low temperatures-Introduction, Freezing mixtures, Joule-Thomson effect, Regenerative cooling, Different methods of liquefaction of gases, liquefaction of air, Production of liquid hydrogen and nitrogen, Adiabatic demagnetization, Properties of materials at low temperatures, Superconductivity
January 2023	UNIT-II MEASUREMENT OF LOW TEMPERATURE (10 hrs) Gas thermometer and its correction and calibration, Secondary thermometers, resistance thermometers, thermocouples, Vapour pressure thermometers, Magnetic thermometers, Advantages and drawbacks of each type of thermometer.

February 2023	UNIT-III PRINCIPLES OF REFRIGERATION (10 hrs) Introduction to Refrigeration- Natural and artificial refrigeration, Stages of refrigeration, Types of refrigeration - Vapor compression and vapor absorption refrigeration systems, Refrigeration cycle and explanation with a block diagram, Introductory ideas on airconditioning. Refrigerants-Introduction, Ideal refrigerant, Properties of refrigerant, Classification of refrigerants, commonly used refrigerants, Eco-friendly refrigerants
March 2023	UNIT-IV COMPONENTS OF REFIGERATOR (10 hrs) Refrigerator and its working, Block diagram, Coefficient of Performance (COP), Tons of refrigeration (TR) and Energy Efficiency Ratio (EER), Refrigerator components: Types of compressors, evaporators and condensers and their functional aspects, defrosting in a refrigerator, Refrigerant leakage and detection.
April 2023	UNIT-V APPLICATIONS OF LOW TEMPERATURE & REFRIGERATION (10 hrs.) Applications of Low temperatures: Preservation of biological material, Food freezing, liquid nitrogen and liquid hydrogen in medical field, Superconducting magnets in MRI- Tissue ablation (cryosurgery) - Cryogenic rocket propulsion system. Applications of refrigeration: Domestic refrigerators, Water coolers, Cold storages, Ice plants, Food preservation methods, Chemical and Process industries, Cold treatment of metals, Construction field, Desalination of water, Data centers.

A.S.D GOVERNMENT DEGREE COLLEGE FOR WOMEN (A)KAKINADA DEPARTMENT OF PHYSICS

ANNUALACADEMICPLAN2022-2023

III B.Sc., V-SEMESTER, PHYSICS PAPER- VII (B): SOLAR ENERGY (For Maths Combinations)

	(For Maths Combinations)
MONTH	TOPIC
DECEMBER 2022	Unit - I: BASIC CONCEPTS OF SOLAR ENERGY (10hrs) Spectral distribution of solar radiation, Solar constant, zenith angle and Air-Mass, standard time, local apparent time, equation of time, direct, diffuse and total radiations. Pyrheliometer - working principle, direct radiation measurement, Pyrometer-working Principle, diffuse radiation measurement, Distinction between the two meters.
JANUARY 2023	Unit - II: SOLAR THERMAL
	COLLECTORS (10hrs) Solar Thermal Collectors-Introduction, Types of Thermal collectors, Flat plate collector — liquid heating type, Energy balance equation and efficiency, Evacuated tube collector, collector overall heat loss coefficient, Definitions of collector efficiency factor, collector heat-removal factor and collector flow factor, Testing of flat-plate collector, solar water heating system, natural and forced circulation types, Concentrating collectors, Solar cookers, Solar dryers, Solar desalinators.
FEBRUARY 2023	Unit - III: FUNDAMENTALS OF SOLAR CELLS (10hrs) Semiconductor interface, Types, homo junction, hetero junction and Schottky barrier, advantages and drawbacks, Photovoltaic cell, equivalent circuit, output parameters, conversion efficiency, quantum efficiency, Measurement of I-V characteristics, series and shunt resistance, their effect on efficiency, Effect of light intensity, inclination and temperature on efficiency
MARCH 2023	Unit -IV: TYPES OF SOLARCELLS AND MODULES (10 hrs) Types of solar cells, Crystalline silicon solar cells, I-V characteristics, poly-Si cells, Amorphous silicon cells, Thin film solar cells-CdTe/CdS and CuInGaSe2/CdS cell configurations, structures, advantages and limitations, Multi junction cells — Double and triple junction cells. Module fabrication steps, Modules in series and parallel, Bypass and blocking diodes

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SEM -VI Long term Internship (APRIL 20023-JUJY-2023)

Students were sent to long term internship to selected industries. In the month of August, evaluation of the internship program was completed

Begartment of Physics

A. S. Govi. Degree College for Wemen

V. Arauta Jahl

A.S.D.GOVT.DEGREE COLLEGE

DEPARTMENT OF CHEMISTRY

ACADEMIC PLAN 2022 - 2023

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

Month	Inorganic Chemistry	
November,	CHEMIOTON CHEMISTRY	Physical Chemistry
2022	CHEMISTRY OF P-BLOCK ELEMENTS	SOLID STATE
December	CHEMISTRY OF D -BLOCK	
2022	ELEMENTS ELECK	GASEOUS STATE AND
January		LIQUID STATE
2023	CHEMISTRY OF F - BLOCK ELEMENTS	SOLUTIONS AND IONIC
February	THEORIES OF BONDING IN	EQUILIBRIUM
2023	METALS	DILUTE SOLUTIONS
March	REVISION FOR SEMESTER EXAMS	
2023	TOR SEMESTER EXAMS	REVISION FOR SEMESTER
		EXAMS

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

Month	Organic Chemistry	Gomeral Chamila
APRIL, 2023	The same of the sa	General Chemistry
MAY, 2023	ALKANES	HSAB
JUNE,2023	CYCLOALKANES	SURFACE CHEMISTRY
	ALKENES	CHEMICAL FOUNDING
JULY, 2023	ALKYNES	
AUGUST	BENZENE AND ITS REACTIVITY	STEREOCHEMISTRY
2023		REVISION FOR SEMESTER EXAMS

II B.Sc., PAPER-III SEMESTER - III (ORGANIC & SPECTROSCOPY)

MONTH	ORGANIC CHEMISTRY	SPECTROSCOPY
NOVEMBER 2023	Chemistry of Halogenated Compounds	Molecular Spectroscopy Rotation Spectroscopy
DECEMBER 2023	Alcohols	Vibrational Spectroscopy
JANUARY 2023	Phenols	Electronic Spectroscopy
FEBRUARY 2023	Carbonyl Compounds	NMR Spectroscopy
MARCH 2023	Carboxyl Acids and their Derivates	Application of Spectroscopy to Simple Organic Molecules

II B.Sc., PAPER-IV - SEMESTER - IV (INORGANIC & ORGANIC AND PHYSICAL CHEMISTRY)

MONTH	INORGANIC CHEMISTRY	ORGANIC CHEMISTRY PHYSICAL CHEMISTRY
APRIL,2023	ORGANOMETALLIC COMPOUNDS	NITROHYDRO COMPOUNDS
MAY,2023	CARBOHYDRATES	AMINES
JUNE,2023	AMINIACIDS AND PROTEINS	PHOTOCHEMISTRY
JULY,2023	NITROHYDRO COMPOUNDS	THERMODYNAMICS
AUGUST,2023	AMINES	THERMODYNAMICS

II B.Sc., PAPER - V SEMESTER -IV (INORGANIC, ORGANIC & PHYSICAL CHEMISTRY)

MONTH	INORGANIC CHEMISTRY	PHYSICAL CHEMISTRY
APRIL,2023	COORDINATION CHEMISTRY	PHASE RULE
MAY,2023	COORDINATION CHEMISTRY	ELECTROCHEMISTRY
JUNE,2023	INORGANIC REACTION MECHANISM	ELECTROCHEMISTRY
JULY,2023	STABILITY OF METAL COMPLEXES	CHEMICAL KINETICS
AUGUST,2023	BIOINORGANIC CHEMISTRY	CHEMICAL KINETICS

III B.Sc., PAPER - 6 D, SEMESTER -V (ENVIRONMENTAL CHEMISTRY)

MONTH	TOPIC	
DECEMBER 2022	INTRODUCTION	
JANUARY 2023	AIR POLLUTION	
FEBRUARY 2023	WATER POLLUTION	
MARCH 2023	CHEMICAL TOXICOLOGY	
APRIL,2023	ECOSYSTEM AND BIODIVERSITY	

III B.Sc., SEMESTER -V,PAPER 7D (GREEN CHEMISTRY AND NANOTECHNOLOGY)

MONTH	TOPIC
DECEMBER 2022	GREEN CHEMISTRY PART-I
JANUARY 2023	GREEN CHEMISTRY PART-II
FEBRUARY 2023	MICROWAVE AND ULTRASOUND ASSISTED GREEN SYNTHESIS
MARCH 2023	GREEN CATALYSIS AND GREEN SYNTHESIS
APRIL,2023	NANOTECHNOLOGY IN GREEN CHEMISTRY

PRINCIPAL

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A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE B.Com(C.A) ACADEMIC PLAN 2022-2023 SEMESTER - I

PAPER -I-INFORMATION TECHNOLOGY

MONTH	NAME OF THE TOPIC	
NOVEMBER 2022	Introduction Of Computers	
DECEMBER 2022	MS word	
JANUARY 2023	MS Excel	
FEBRAVARY 2023	MS Power point	
MARCH 2023	MS Access	

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE B.Com(C.A) ACADEMIC PLAN 2022-2023 SEMESTER - III

PAPER-III- PROGRAMMING WITH C & C++

MONTH	NAME OF THE TOPIC
NOVEMBER 2022	Introduction and Control Structure
DECEMBER 2022	Loops And Arrays
	Strings And Functions
JANUARY 2023	Principles of Object Oriented Programming
FEBRAVARY 2023	Classes And Objects

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE B.Com(C.A) ACADEMIC PLAN 2022-2023 SEMESTER - V PAPER - VI-A - BIG DATA ANALYTICS USING R

MONTH NAME OF THE TOPIC **DECEMBER** Introduction to Big data 2022 **JANUARY** Big data Analytics 2023 **FEBRUARY** Introduction to R and getting started with R 2023 MARCH Exploring data in R 2023 APRIL Data Visualization using R 2023

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE B.Com(C.A) ACADEMIC PLAN 2022-2023 SEMESTER – V - PAPER- VII-A- DATA SCIENCE USING PYTHON

MONTH	NAME OF THE TOPIC
DECEMBER 2022	Introduction to data science
JANUARY 2023	Introduction to Python
FEBRUARY 2023	Control structures and strings
MARCH 2023	Functions and modules
APRIL 2023	Classes & Object

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE B.Com(C.A) ACADEMIC PLAN 2022-2023 SEMESTER – II - E-COMMERCE AND WEB DESIGNING

MONTH	NAME OF THE TOPIC
MARCH	Introduction
2023	Technology used in E-commerce
APRIL 2023	E-Payment System
MAY 2023	On-line Business Transactions
JUNE 2023	Website designing
JULY 2023	Website designing
AUGUST 2023	Security and Encryption

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE B.Com(C.A) ACADEMIC PLAN 2022-2023 SEMESTER - IV - DATABASE MANAGEMENT SYSTEMS

MONTH	NAME OF THE TOPIC
MARCH 2023	Overview of Database Management System
APRIL 2023	File-Based System
MAY 2023	Entity-Relationship Model
JUNE 2023	Structured Query Language
JULY 2023	PL/SQL Operators, Procedures
AUGUST 2023	PL/SOL . SPRINGE COMPUTER SCIENCE

A.S.D.GOVT.DEGREE COLLEGE (W)

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A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE B.Sc(M.P.Cs) ACADEMIC PLAN 2022-2023 SEMESTER - I

PAPER -I - PROBLEM SOLVING IN C

MONTH	NAME OF THE TOPIC
NOVEMBER	General Fundamentals
2022	Introduction to Algorithms and Programming Language
DECEMBER	Introduction to C
2022	Decision control and Looping Statements
JANUARY 2023	Arrays
FEBRUARY 2023	Functions
	Structure, Union, and Enumerated Data Types
MARCH 2023	Pointers
	Files

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE B.Sc.(M.P.Cs) ACADEMIC PLAN 2022-2023 SEMESTER - III

PAPER-III- DATABASE MANAGEMENT SYSTEM

MONTH	NAME OF THE TOPIC
NOVEMBER 2022	Overview of Database Management System
DECEMBER 2022	Entity- Relationship Model
JANUARY 2023	Relational Model
FEBRUARY 2023	Structure Query Language
MARCH 2023	PL/SQL

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE B.Sc.(MPCS)ACADEMIC PLAN 2022-2023 SEMESTER – II PAPER- II- DATA STRUCTURES USING C

MONTH	NAME OF THE TOPIC
MARCH 2023	Introduction to Data Structures
APRIL 2023	Principles of Programming and Analysis of Algorithms
2023	Introduction to Arrays
MAY 2023	Linked Lists
JUNE 2023	Stacks
JULY	Queues
2023	Binary Trees
AUGUST	Searching & Sorting
2023	Graphs

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE B.Sc(M.P.Cs) ACADEMIC PLAN 2022-2023 SEMESTER - IV

PAPER - IV - OBJECT ORIENTED PROGRAMMING THROUGH JAVA

MONTH	NAME OF THE TOPIC
MARCH	Introduction to Java and Data Types in Java
2023 APRIL	Operators and Control Statements in Java
2023	Arrays In Java
MAY	Strings In Java
2023 JUNE 2023	Introduction to Oops and Classes And Objects
JULY 2023	Methods in Java and Inheritance
	Polymorphism, Type Casting, and Interfaces
AUGUST 2023	Packages, Exception Handling in Java
	Streams and Threads
MARCH 2023	Applets
	Java Database Connectivity

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE B.Sc(M.P.Cs) ACADEMIC PLAN 2022-2023 **SEMESTER - IV**

V - OPERATING SYSTEMS

MONTH	NAME OF THE TOPIC
MARCH	History and Evaluation of Operating system
2023	Time Sharing Systems
APRIL 2023	Processor and User Modes
MAY 2023	Process Management
	Concurrent and dependent Processes
JUNE 2023	Memory Management
JULY 2023	File and I/O Management, OS Security
AUGUST 2023	Android Application Development

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PRINCIPAL

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

DEPARTMENT OF BOTANY

ANNUAL ACADEMIC PLAN 2022-2023

I B.Sc., -Botany-I/ I Semester End (W.E.F. 2020-21)

FUNDAMENTAL OF MICROBES AND NON- VASCULAR PLANTS

MONTH	TOPIC
(E)	ORIGIN OF LIFE AND VIRUSES
November 2022	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.
	SPECIAL GROUPS OFBACTERIA AND
	EUBACTERIA
November 2022	Brief account of Archaebacteria, Actinomycetes
	Brief account of Anonaccura
	and Cyanobacteria. Cell structure and nutrition of Eubacteria
	- Asexial (Binary IISSIOII and
	and bacterial recombination
	(Conjugation, transformation,
	I in Agriculture and
	industry(fermentation and medicine).
	A general account on Sylvanian caused by Bacteria; Citrus canker.
	caused by Bacterin,
	FUNGI&LICHENS storistics of fungi and Ainsworth
December 2022	1 - Large Pilot Of Lutter with a state of the
December 2022	classification (uptoclasses).
-	classification

	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.
January 2023	ALGAE General characteristics of Algae (pigments, flagella and reserve food material); Fritsch classification (uptoclasses). Thallus organization and life cycles in Algae. Occurrence, structure, reproduction and life cycle of (a) Spirogyra (Chlorophyceae) and
	(b) Polysiphonia (Rhodophyceae). Economic importance of Algae.
January 2023	BRYOPHYTES General characteristics of Bryophytes; classification upto classes. Occurrence, morphology, anatomy, reproduction (developmental details are not needed)
February 2023	life cycle of (a) Marchantia (Hepaticopsida) and (b) Funaria (Bryopsida). General account on evolution of sporophytes in Bryophyta.

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

DEPARTMENT OF BOTANY ANNUAL ACADEMIC PLAN 2022-2023

I B.Sc., -Botany-II/ II Semester End (W.E.F. 2020-21)

MONTH	BASICS OF VASCULAR PLANTS AND PHYTOGEOGRAPHY TOPIC
March 2023	PTERIDOPHYTES General characteristics of Pteridophyta; classification of Smith (1955) uptodivisions. 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.
April 2023	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 on Cycadeoidea
May 2023	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.

Mjay 2023

JUNE 2023	
	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 followingfamilies:
	(a) Annonaceae (b)Curcurbitaceae
July 2023	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).
August 2023	
	PHYTOGEOGRAPHY
	Principles of Phytogeography, Distribution (wides, endemic, discontinuous species)
	Endemism – types and causes.
	Phytogeographic regions of World.
	Phytogeographic regions of India. Vegetation types in AndhraPradesh.

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

DEPARTMENT OF BOTANY ANNUAL ACADEMIC PLAN 2022-2023

III Semester - Paper - III

Anatomy and Embryology of Angiosperms, Plant Ecology and Biodiversity

MONTH	TOPIC
NOVEMBER 2022	 ANATOMY OF ANGIOSPERMS Organization of apical meristems: Tunica-carpus theory and Histogen theory. Tissue systems-Epidermal, ground and vascular. Anomalous secondary growth in <i>Boerhaavia</i> and <i>Dracaena</i>. Study of timbers of economic importance - Teak, Red sanders and Rosewood Additional topics (Nodal Anatomy, Floral Anatomy
DECEMBER 2022	 Structure of anther, anther wall, types of tapetum. Microsporogenesis and development of male gametophyte. Structure of ovule, megasporogenesis; monosporic (Polygonum), bisporic (Allium)andtetrasporic (Peperomia) types of embryo sacs. Outlines of pollination, pollen – pistil interaction and fertilization. Endosperm - Types and biological importance - Free nuclear, cellular,helobialandruminate.Development of Dicot (Capsella bursa-pastoris) embryo

JANUARY	Y
2023	

BASICS OF ECOLOGY

Ecology: definition, branches and significance of ecology.

Ecosystem: Concept and components, energy flow, food chain, food web, ecological pyramids.

Plants and environment: Climatic (light and temperature), edaphic and biotic factors.

Ecological succession: Hydrosere and Xerosere

POPULATION, COMMUNITY AND PRODUCTION ECOLOGY Population ecology: Natality, mortality, growth curves, ecotypes, ecads

Community ecology: Frequency, density, cover, life forms, biological spectrum

FEBRUARY 2023

Concepts of productivity: GPP, NPP and Community Respiration Secondary production, P/R ratio and Ecosystems

BASICS OF BIODIVERSITY

Biodiversity: Basic concepts, Convention on Biodiversity - Earth Summit.

Value of Biodiversity; types and levels of biodiversity and Threats to biodiversity

Biodiversity Hot spots in India. Biodiversity in North Eastern Himalayas and Western Ghats.

Principles of conservation: IUCN threat-categories, RED data book Role of NBPGR and NBA in the conservation of Biodiversity.

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

DEPARTMENT OF BOTANY **ANNUAL ACADEMIC PLAN 2022-2023**

II B.Sc. BOTANY IV Semester

PAPER -IV: PLANT PHYSIOLOGY AND METABOLISM

MONTH	TOPIC
NOVEMBER 2023	Plant-Water relations
	Importance of water to plant life, physical properties of water, diffusion, imbibition, osmosis. water potential, osmotic potential, pressure potential. Absorption and lateral transport of water; Ascent of sap
	Transpiration: stomata structure and mechanism of stomatal movements (K ⁺ ionflux).
	Mechanism of phloem transport; source-sink relationships
	Mineral nutrition, Enzymes and Respiration
	1. Essential macro and micro mineral nutrients and
	their role in plants; symptoms of mineral deficiency
December 2023	Absorption of mineral ions; passive and active processes. Characteristics, nomenclature and classification of Enzymes. Mechanism of enzyme action, enzyme kinetics Respiration: Aerobic and Anaerobic; Glycolysis, Krebs cycle; electron transportsystem
	Mechanism of Oxidative phosphorylation, Pentose phosphate pathway Photosynthesis and Photorespiration
	Photosynthesis: Photosynthetic pigments, absorption and
	action spectra; Red dropand Emersonenhancement effect
	Concept of two photosystems; mechanism of
	photosynthetic electron transportand evolution of oxygen;
	photophosphorylation
	Carbon assimilation pathways (C3,C4 and CAM);Photorespiration

C2 pathway

. Nitrogen and lipid metabolism

Nitrogen metabolism: Biological nitrogen fixation asymbiotic and symbioticnitrogenfixing organisms.

anuary 2023

Nitrogenase enzyme system.

Lipid metabolism: Classification of Plant lipids, saturated and unsaturated fattyacids. Anabolism of triglycerides, β-oxidation of fatty acids, Glyoxylate cycle

Plant growth - development and stress physiology

Growth and Development: Definition, phases and kinetics of growth.

February 2023

Physiological effects of Plant Growth Regulators (PGRs) auxins gibberellins, cytokinins, ABA, ethylene and brassinosteroids Physiology of flowering: Photoperiodism, role of phytochrome in flowering.

Seed germination and senescence; physiological changes.

Physiological changes in plants during Water stress

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DEPARTMENT OF BOTANY ANNUAL

ACADEMIC PLAN 2022-2023

II B.Sc. BOTANY IV Semester Paper – V

CELL BIOLOGY, GENETICS AND PLANT BREEDING

MONTH	TOPIC
NOVEMBER 2023	The Cell Cell theory; prokaryotic vs eukaryotic cell; animal vs plant cell; a brief account on ultra-structure of a plant cell. Ultra-structure of cell wall. Ultra-structure of plasma membrane and various theories on its organization. Polymorphic cell organelles (Plastids); ultra structure of chloroplast. Plastid DNA
December 2023	Chromosomes 1. Prokaryotic vs eukaryotic chromosome. Morphology of a eukayotic chromosome. 2. Euchromatin and Heterochromatin; Karyotype and ideogram. 3. Brief account of chromosomal aberrations - structural and numerical changes 4. Organization of DNA in a chromosome (solenoid and nucleosome models).

PRINCIBAL A.S.D.GOVT. DEGREE COMPTE COM AUTONOMOUS KAKINADA

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Mendelian and Non-Mendelian genetics

- Mendel's laws of inheritance. Incomplete dominance and co-dominance; Multipleallelism.
- Complementary, supplementary and duplicate gene interactions (plant based examples are to be dealt).
- A brief account of linkage and crossing over; Chromosomal mapping 2
 pointand 3 point test cross.
- Concept of maternal inheritance (Corren's experiment on Mirabilis jalapa);
 Mitochondrial DNA.

Structure and functions of DNA

- Watson and Crick model of DNA. Brief account on DNA Replication (Semi-conservative method).
- Brief account on Transcription, types and functions of RNA. Gene concept andgenetic code and Translation.
- Regulation of gene expression in prokaryotes Lac Operon.

Plant Breeding

January 2023

February 2023

- Plant Breeding and its scope; Genetic basis for plant breeding. Plant Introductionand acclimatization.
- Definition, procedure; applications and uses; advantages and limitations of :(a)Mass selection, (b) Pure line selection and (c) Clonal selection.
- Hybridization schemes, and technique; Heterosis(hybrid vigour).
- A brief account on Molecular breeding DNA markers in plant breeding. RAPD, RFLP.

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A.S.D GOVT DEGREE COLLEGE FOR WOMEN (A) (Re-Accredited by NAAC with'B')

Kakinada 533002 EASTGODAVARI, ANDHRA PRADESH III B.Sc. DEGREE EXAMINATION 2022-2023

(At the End of V Semester)

Botany Syllabus Paper - VI Course 6A: PLANT PROPAGATION

	LANT PROP
MONTH	PLANT PROPAGATION
	TOPIC
January 2023	 Basic concepts of propagation Propagation: Definition, need and potentialities for plant multiplication; asexual andsexual methods of propagation - advantages and disadvantages. Propagation facilities: Mist chamber, humidifiers, greenhouses, glasshouses, cold frames, hot beds, poly-houses, phytotrons nursery - tools and implements.
	corms, tubers and rhizomes; runners, stolons, suckers and offsets.
February 2023	Apomictics in plant propagation 1. Apomixis: Definition, facultative and obligate; types – recurrent, non-recurrent, adventitious and vegetative; advantages and disadvantages. 2. Polyembryony: Definition, classification, horticultural significance; chimera and budsport. 3. Propagation by auti-
March 2023	 Cuttings: Definition, different methods of cuttings; root and leaf cuttings. Stem cuttings: Definition of stem tip and section cuttings; plant propagation by herbaceous, soft wood, semi hard wood, hard wood and coniferous stem cuttings. Physiological and bio chemical basis of rooting; factors influencing rooting of cuttings; Use of plant growth regulators in rooting of cuttings.

April 2023

Propagation by layering

- 1. Layering: Definition, principle and factors influencing layering. 2. Plant propagation by layering: Ground layering – tip layering, simple layering, trenchlayering, mound (stool) layering and compound (serpentine layering).
- 3. Air layering technique application in woody trees.

Propagation by grafting and budding

- 1. Grafting: Definition, principle, types, graft incompatibility, collection of scion woodstick, scion-stock relationship, and their influences, bud wood certification; micrografting.
- 2. Propagation by veneer, whip, cleft, side and bark grafting techniques.

Budding: Definition; techniques of 'T', inverted 'T', patch and chip budding

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

(Re-Accredited by NAAC with B') Kakinada 533002 EASTGODAVARI, ANDHRA PRADESH III B.Sc. DEGREE EXAMINATION 2022-2023

(At the End of V Semester)

Botany Syllabus Paper - VI

MONTH	Course-7A: Seed Technology
January 2023	 Seed and grain: Definitions, importance of seed; structure of Dicot and Monocot seed. Role and goals of seed technology; characteristics of quality seed material. Dormancy: Definition, causes for seed dormancy; methods to break seed dormancy.
	Seed processing and storage 1. Principles of seed processing: seed pre-cleaning, precuring, drying, seed extraction; cleaning, grading, pre-storage treatments; bagging and labelling, safety precautionsduring processing. 2. Seed storage; orthodox and recalcitrant seeds, natural longevity of seeds factors affecting longevity in storage; storage conditions, methods and containers
February 2023	 Seed testing Definition of seed vigour, viability and longevity; seed sampling and equipment; physical purity analysis. Seed moisture – importance – methods of moisture determination. Seed germination tests using paper, sand or soil – standard germination test; TZ testto determine seed viability; seed health testing.
March 2023	Seed borne diseases 1. A brief account of different seed borne diseases and their transmission. 2. Different seed health testing methods for detecting microorganisms. Management of seed borne diseases; seed treatment methods spraying and dusting
April 2023	Seed certification 1. Objectives - Indian seed Act; seed rules and seed order; new seed policy (1988). 2. Seed Inspector: Duties and responsibilities; classes of seeds, phases of certificationstandards (i.e., Land requirement, isolation distance) etc. Issue of certificates, tags and sealing; pre and post control check: Genetic purityverification, certification, records and reporting







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

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

I B.Sc HORTICULTURE THEORY SYLLABUS for the Academic Year 2022-2023

SEMESTER - I, COURSE - I

FUNDAMENTALS OF HORTICULTURE AND SOIL SCIENCE

MONTH	TOPIC
	Introduction to Horticulture
	1. Horticulture: Definition, importance of horticulture
Na	in terms of economy, production.employment
November 2022	generation, environmental protection and human
	resource development.
	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.
	Classification Horticulture Crops
	 Classification of horticultural crops based on soil and clima requirements.
November 2022	2. Vegetable crop gardens – Nutrition and kitchen garden –
9	tracer garden - vegetable forcing -market garden - roof
	garden.
	 Gardens in floriculture – flower gardens – soil and mixed gardens; land scape Horticulture.
46	

DECEMBER -202	Characteristics of Orchards 1. Orchard: Definition, different systems of planting orchards – square, rectangular Quincunx, hexagonal and contour. 2. Calculation of planting densities in different systems of planting. 3. Different types and methods of pruning. 4. Training: Definition, principles and objectives; merits and demerits of open and closecentered, and modified leader systems.
	Physico-chemical characteristics of Soil 1. Soil: Definition minerals and wasthering to 6
JANUARY- 2023	 Soil: Definition, minerals and weathering to form soils; factors of soil formation. Soil taxonomy; soil color, texture and structure; other physic properties and stability.
	3. Soil colloids and charges; ion adsorption and exchange; soil temperature and soil air.
	4. Soil pH and acidity; soil alkalinity and salinity.
	Unit V: Soil as a living matter
	1. Soil organic matter-composition and decomposability.
CBRUARY -2023	2. Humus-fractionation of organic matter.
	 Soil biology: Soil microorganisms and fauna—beneficial and harmful roles.
	4. Integrated nutrient management and soil tests.





II B.Sc HORTICULTURE ANNUAL ACADEMIC PLAN 2022-2023 SEMESTER - III, COURSE – III BASICS OF VEGETABLE SCIENCE (OLERICULTURE)

MONTH	TOPIC
NOVEMBER 2022	 Unit - 1: Introduction to Vegetable Crops 1. Importance of vegetable cultivation in India and Andhra Pradesh.
	 Classification and Nutritive value of vegetables. Area and production of vegetables in India and Andhra
	Pradesh.
	4. Export and import potential of vegetables in India.
	Constraints in vegetable production and remedies to overcome them.
DECEMBER 2022	Unit - 2 : Solanaceous and Leafy Vegetables.
	Cultivation of (a) Brinjal (b) Tomato (c) Capsicum (d) Spinach (c) Coriander and (d) Mentha
JANUARY 2023	Unit - 3: Root and Tuber Crops
	Cultivation of (a) Carrot (b) Beet root (c) Tapioca and (d)
A STATE	Colocasia
FEBRUARY 2023	Unit - 4: Cole Crops
	Cultivation of (a) Cabbage and (b) Cauliflower
	Unit - 5: Leguminous Vegetables
	Cultivation of (a) Cluster bean (b) Cow pea and (d) Dolichos

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II B.Sc HORTICULTURE ANNUAL ACADEMIC PLAN 2022-2023

SEMESTER - IV, COURSE – IV BASICS OF FRUIT SCIENCE (POMOLOGY)

MONTH	TOPIC
MARCH 2023	 Unit – 1: Introduction to Fruit crops 12 Hrs. Importance of fruit growing in India and Andhra Pradesh. Nutritive value of fruits. Area and production of India and Andhra Pradesh.
APRIL 2023	4. Export and import potential of fruits in India. Constraints in fruit production and remedies to overcome them. Unit – 2: Tropical Fruit Crops (a) Mango
MAY 2023	Unit – 2: (b) Guava and (c) Papaya Unit – 3: Sub-tropical and Temperate Fruit Crops (a) Grapes (b) Pomegranate (c) Citrus and (d) Apple
JUNE 2023	Unit - 4: Arid and Minor Fruit crops (a) Amla (b) Dates and (c) Wood apple Unit - 5: Management Practices for Fruit Crops 1. Sustainable Production Practices for Local Fruit Production.
ULY 2023	2. Integrated Orchard Management/Principles of IPM.
UGUST - 2023	3. Harvesting and Labor Concerns
	4. Grading, packing, storage and marketing of fruits.

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

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KAKINADA 533002 EASTGODAVARI, ANDHRA PRADESH

III Year B.Sc Degree Examinations at the end of V Semester 2022-2023

HORTICULTURE SEMESTER - V, COURSE – 6A Theory Syllabus

ORNAMENTAL HORTICULTURE

(Skill Enhancement Course (Elective)

MONTH	(Skill Enhancement Course (Elective) TOPIC
JUNE - 2023	 Introduction to Ornamental Horticulture History, Definition, scope of gardening, aesthetic values; types of gardens in India. Landscaping, basic principles and basic components. Principles of gardening, garden components and adornments. Lawn types, establishment and maintenance; methods of designing rocker and water garden.
JULY - 2023	 Types of Ornamental gardens Special types of gardens, trees, their design, their walk-paths, bridges, constructed features. Garden structures – greenhouse, glass house, net house. Values in landscaping; propagation-planting of shrubs and herbaceous perennials.
MAY 2023 JUNE 2023	Plants in Ornamental gardens 1. Importance, design values, propagation, planting of following annuals, biennials and perennials: (a) Climbers (b) Creepers (c) Palms (b) (d) Ferns (e) Grasses (f) Cacti (g) Succulents
JULY 2023 AUGUST -2023	Ornamental gardening – public utility 1 Cultural operations in ornamental gardens. 2 Bio-aesthetic planning, definition, need; round country planning; urban planning and planting - avenues, educational institutions, villages. 3. Beautifying railway stations, dam sites, hydroelectric stations, colonies, river banks, Planting material for play grounds.
SEPTEMBER – 202	Ornamental gardening in residences 1. Bottle garden, terrariums. 2. Vertical gardens, roof gardens. 3. Culture of bonsai, art of making bonsa

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KAKINADA 533002 EASTGODAVARI, ANDHRA PRADESH III Year B.Sc Degree Examinations at the end of V Semester 2022-2023

HORTICULTURE SEMESTER - V, COURSE - 7A Theory Syllabus

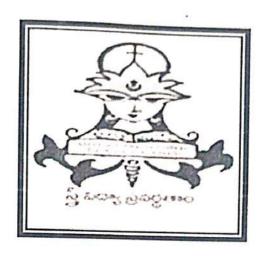
COURSE 7A: COMMERCIAL FLORICULTURE

(Skill Enhancement Course (Elective)

MONTH	TOPIC
JUNE - 2023	Basic concepts of floriculture 1. Aesthetic, cultural and industrial importance of flowers; domestic and export marketing of flowers. 2. Floriculture - Importance, area and production in Andhra Pradesh and India. 3. Scope and importance of commercial floriculture in A.P., and India.
JULY - 2023	Production technology-1 1. Production techniques of following flowering plants for domestic and export market: (a) Rose (b) Chrysanthemum (c) Marigold (d) Tuberose (e) Crossandra (f) Jasmine
MAY 2023	Production technology-2 1. Production techniques of following flowering plants for domestic and export market: (a) Anthurium (b) Gerbera (c) Gladiolus (d) Dahlia (e) Heliconia (f)
JUNE 2023	Orchid
JULY 2023	Plant breeding of flowering ornamentals (10h) 1. Objectives and techniques in ornamental plant breeding. 2. Introduction, selection, hybridization, mutation and biotechnological technique for improvement of following ornamental and flower crops.
AUGUST -2023	(a) Carnation (b) Petunia (c) Geranium (d) Cosmos (e) Hibiscus (f) Snapdragon
SEPTEMBER – 2023	 Unit-5: Post-harvest practices in floriculture (10h) Growing of flowering plants under protected environments such as glass house, plastic house, net house, etc. Importance of flower arrangement; Ikebana - techniques, types, suitable flowers and cut foliage. Post-harvest technology of cut and loose flowers in respect of commercial flower crops. Dehydration techniques for drying of flowers, scope importance and status.

A.S.D.GOVT. DEGREE COLLEGE (W) AUTONOMOUS KAKINADA

DEPARTMENT OF ZOOLOGY AND AQUACULTURE TECHNOLOGY



ACADEMIC PLAN

2022-2023

ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS), KAKINADA. — DEPARTMENT OF ZOOLOGY & AQUACULTURE TECHNOLOGY

I B.Sc. ZOOLOGY ACADEMIC PLAN 2022-23

SEMESTER -I PAPER-I ANIMAL DIVERSITY - BIOLOGY OF NON-CHORDATES

MONTH	TOPIC COVERED
November'22	UNIT I:
	Assumed to the second s
	1.1 Principles of Taxonomy – Binomial nomenclature – Rules of nomenclature
	1.2 Whittaker's five kingdom concept and classification of Animal Kingdom.
	Phylum Protozoa:
	1.3General Characters and classification of protozoa up to species level with suitable examples
	N 20 10/40 10 10 10 10 10 10 10 10 10 10 10 10 10
	1.4Locomotion, nutrition and reproduction in Protozoan's 1.5Elphidium (typestudy).
December'22	UNIT II:
	Phylum Porifera:
	2.1General characters and classification up to species level with suitable
	examples
	2.2Skelton in Sponges
	2.3Canal system in sponges
	Phylum Coelenterate:
	2.4General characters and classification up to species level with suitable examples
	2.5Mutagenesis in Obelia,
	2.6Polymorphism in coelenterates,
	2.7Corals and coral reefs formation
	Phylum Ctenophore:
	2.8General Characters and Evolutionary significance (affinities)
1	UNIT III:
January'23	Phylum Platy helminthes:
	3.1 General characters and classification up to species level with suitable
	examples
	2.2.1 if the state of the formation
	3.2 Life cycle and pathogen city of Pasciolanepatica 3.3 Parasitic Adaptations in helminthes Phylum
	Nemathelminthes:
	3.4 General characters and classification up to species level with suitable
	examples
	3.5 Life cycle and pathogen city of Ascaris lumbricoides
E 1	UNIT IV:
February'23	Phylum Annelida:
	4.1General characters and classification up to species level with suitable.
	examples
	4.2 Hirudinaria granulosa- External characters, digestive system, excretor
	system and reproductive system. Evolution of Coelom and Coelomoducts.
	4.3 Vermiculture - Scope, significance, earthworm species, processing, -
	Vermicompost, economic importance of vermin compost
	verimediapost, economic important

	 4.4 General characters and classification up to species level with suitable examples 4.5 Prawn External characters, appendages, respiratory system and circulatory system 4.6 Vision and respiration in Arthropoda, 4.7 Metamorphosis in Insects 4.8 Peripatus- Structure and affinities
	4.9Social Life in Bees and Termites
March'23	UNIT V:
	Phylum Mollusca:
	5.1 General characters and classification up to species level with suitable
	examples,
	5.2 Pearl formation in Pelecypoda,
	5.3 Sense organs in Mollusca, Torsion in gastropods.
	Phylum Echinodermata:
	5.4 General characters and classification up to species level with suitable
	examples,
	5.5 Water vascular system in starfish.
	5.6 Larval forms of Echinodermata.
	Phylum Hemichordate:
	5.7 General characters and classification up to species level with suitable
	examples,
	5.8Balanoglossus - Structure and affinities

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I B.Sc. ZOOLOGY ACADEMIC PLAN 2022-23

SEMESTER- II PAPER-II ANIMAL DIVERSITY - BIOLOGY OF CHORDATES

MONTH	TODIC CONFIDENCE
April'23	UNIT I: TOPIC COVERED
	1.1 General characters and classification of Chordata upto species level
	1.2 Protochordata- Salient features of Cephalochordate,
	1.3Structure of Branchiostoma
	1.4 Affinities of Cephalochordate.
	1.5 Salient features of Urochordata
	1.6Structure and life history of Herdmania
	1.7 Retrogressive metamorphosis – Process and Significance.
may'22	UNIT II:
	2.1Cyclostomata, General characters, Comparison of Petromyzon and
	Myxine Myxine
	2.2 Pisces: General characters and classification of Fishes upto species leve
	2.3 Scoliodon: External features, Digestive system, Respiratory system,
	Structure and function of Heart, Structure and functions of the Brain.
	2.4Migration in Fishes
	2.5 Types of Scales
	2.6 Dipnoi.
June'22	UNIT III:
	3.1General characters of Amphibian
	3.2 Classification of Amphibian upto species level with examples.
	3.3 Ranahexadactyla: External features, Digestive system, Respiratory
	system, Structure and function of Heart, structure and functions of the Brain
	3.4 Reptilia: General characters of Reptilia, Classification of Reptilia upto
	species level with examples
	3.5 Calotes: External features, Digestive system, Respiratory system
	Structure and function of Heart, structure and function of Brain
	3.6 Identification of Poisonous and non-poisonous snakes and
	3.7 Skull in reptiles.
July'22	UNIT IV:
	4.1 Aves: General characters and classification of Aves upto species level
	4.2 Columba livia: External features, Digestive system, Respiratory system
	Structure and function of Heart, structure and function of Brain
	4.3 Migration in Birds
	4.4 Flight adaptation in birds.
August'2Z	UNIT V:
O	5.1 General characters of Mammalian
	5.2Classification of Mammalian upto species level with examples
	5.3Comparison of Prototherians, Metatherians and Eutherians
	5.4 Dentition in mammals.

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II B.Sc. ZOOLOGY ACADEMIC PLAN 2022-23

SEMESTER -III PAPER-III

(CELL BIOLOGY, GENEICS, MOLECULAR BIOLOGY AND EVOLUTION)

MONTH	TOPIC COVERED
November'22	UNIT I: Cell Biology:
	1.1 Definition, history, prokaryotic and eukaryotic cells, virus, viroids.
	mycoplasma
	1.2 Electron microscopic structure of animal cell.
	1.3 Plasma membrane – Models and transport functions of plasma membrane.
	1.4 Structure and functions of Golgi complex, Endoplasmic Reticulum and
	Lysosomes
	1.5 Structure and functions of Ribosomes, Mitochondria, Nucleus,
	Chromosomes
December'22	UNIT II : Genetics-I:
	2.1 Mendel's work on transmission of traits
	2.2 Gene Interaction – Incomplete Dominance, Codominance, Lethal Genes
	2.3 Polygene's (General Characteristics & examples); Multiple Alleles
	(General Characteristics and Blood group inheritance
	2.4 Sex determination (Chromosomal, Genic Balance, Hormonal,
	Environmental and Haplo- diploidy types of sex determination)
Innuari.122	2.5Sex linked inheritance (X-linked, Y-linked & XY-linked inheritance)
January'23	UNIT III : Genetics - II:
	3.1 Mutations & Mutagenesis.
	3.2Chromosomal Disorders (Autosomal and Allosomal)
	3.3Human Genetics – Karyo typing, Pedigree Analysis(basics)
	3.4Basics on Genomics and Proteomics
February'23	UNIT IV : Molecular Biology:
	4.1 Central Dogma of Molecular Biology
	4.2 Basic concepts of
	1. DNA replication – Overview (Semi-conservative mechanism.
	Semi- discontinuous mode, Origin & Propagation of replication fork)
	2. Transcription in prokaryotes – Initiation, Elongation and
	Termination, Post-transcriptional modifications(basics)
	3. Translation - Initiation, Elongation and Termination Gene
	Expression in prokaryotes (Lac Operon);
	4.3 Gene Expression in eukaryotes
March'23	UNIT V:
	5.1Origin of life
	5.2 Theories of Evolution: Lamarckism, Darwinism, Germ Plasm
	Theory, Mutation Theory
	5.3 Neo Darwinism: Modern Synthetic, Theory of Evolution, Hardy-
	Weinberg Equilibrium
	5.4 Forces of Evolution: Isolating mechanisms, Genetic Drift, Natural
	Selection, Speciation
	Selection, operation

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II B.Sc. ZOOLOGY ACADEMIC PLAN 2022-23

IV SEMESTER Paper-IV

(ANIMAL PHYSIOLOGY, CELLULAR METABOLISM AND EMBRYOLOGY)

MONTH	TOPIC COVERED	
April'23	UNIT-I:	
	Animal Physiology -1:	
	Process of digestion and assimilation, Respiration - Pulmonary ventila	ation,
	transport of oxygen and CO2. (Note: Need not study cellular respiration l	here).
	Circulation - Structure and functioning of heart, Cardiac cycle, Excret	tion -
	Structure and functions of kidney urine formation, counter current Mecha	ınism
May'23	UNIT- II	,
	Animal Physiology -II: Nerve impulse transmission - Resting members	brane
	potential, origin and propagation of action potentials along myelinated	d and
	non-myelinated nerve fibers. Muscle contraction - Ultra structure of mt	rscle,
	molecular and chemical basis of muscle contraction. Endocrine glan	nds -
	Structure, functions of hormones of pituitary, thyroid, parathyroid, ad	renal
	glands and pancreas, Hormonal control of reproduction in a mammal	
June'23	UNIT-III	
	Cellular Metabolism - I(Biomolecules) Carbohydrates - Classification	on of
	carbohydrates. Structure of glucose Proteins - Classification of prot	teins.
	General properties of amino acids Lipids - Classification of lipids. Enzy	mes:
	Classification and Mechanism of Action	
July'23	UNIT-IV	
	Cellular Metabolism -II: Carbohydrate Metabolism - Glycolysis, k	Crebs
	cycle, Electron Transport Chain, Glycogen metabolism, Gluconeoger	jesis,
	Lipid Metabolism - Synthesis of fatty acids, β-oxidation of palmitic	acid
	Protein metabolism - Transamination, Deamination and Urea Cycle	
August'23	UNIT-V	
	Embryology: Gametogenesis Fertilization, Types of eggs Type	s of
	cleavages, Development of Frog upto formation of primary germ layers	

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II B.Sc. ZOOLOGY ACADEMIC PLAN 2022-23

IV SEMESTER Paper-V (IMMUNOLOGY AND ANIMAL BIO-TECHNOLOGY)

MONTH	TOPIC COVERED
April'23	. TOFIC COVERED
	UNIT-I
	Immunology - I (Overview of Immune system): Introduction to basic
	concepts in Immunology Innate and all the introduction to basic
	concepts in Immunology, Innate and adaptive immunity, Vaccines and
	Immunization programme, Cells of immune system, Organs of immune system
May'23	. •
	UNIT-II
	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -
	Immunology - II (Antigens, Antibodies, MHC and Hypersensitivity)
	Antigens: Basic properties of antigens. B and T cell epitomes happens and
	adjuvant, ractors influencing immunogenicity Antibodies: Structure of
	antibody, Classes and functions of antibodies Structure and functions of major
	his to compatibility complexes, Exogenous and Endogenous pathways of
	antigen presentation and processing Hypersensitivity – Classification and
	Types .
June'23	
	UNIT-III
	Techniques: Animal Cell, Tissue and Organ culture media: Natural and
	Synthetic media, Cell cultures: Establishment of cell culture (primary
	culture, secondary culture, types of cell lines; Protocols for Primary Cell
	Culture); Established Cell lines (common examples such as MRC, HeLa,
	CHO, BHK, Vero); Organ culture; Cryopreservation of cultures Stem cells:
	Types of stem cells and applications, Hybridoma Technology: Production &
	applications of Monoclonal antibodies (mAb)
July'23	Tr and an
0 any 20	UNIT-IV
	Applications of Animal Biotechnology: Genetic Engineering: Basic
	concept, Vectors, Restriction Endo nucleases and Recombinant DNA
	technology Gene delivery: Microinjection, electroportion, biolistic method
	(gene gun), liposome and viral-mediated gene delivery Transgenic Animals:
	Strategies of Gene transfer; Transgenic - sheep, fish; applications
	Manipulation of reproduction in animals: Artificial Insemination, Invitro
	fertilization, super ovulation, Embryo transfer, Embryo cloning
August'23	
	UNIT-V:
	PCR: Basics of PCR. DNA Sequencing: Sanger's method of DNA
	sequencing- traditional and automated sequencing (2hrs) Hybridization
	techniques: Southern, Northern and Western blotting DNA fingerprinting:
	Procedure and applications Applications in Industry and Agriculture:
12	Fermentation: Different types of Fermentation and Downstream processing:
	Agriculture: Monoculture in fishes, polyploidy in fishes
	Agriculture, Monoculture in fishes, polyploidy in fishes

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III B.Sc. ZOOLOGY ACADEMIC PLAN 2022-23

SEMESTER -V PAPER-6A (SUSTAINABLE AQUACULTURE MANAGEMENT)

MONTH	TOPIC COVERED .
December'22	TOTIC COVERED
	UNIT I: 1.1 Present status of Aquaculture – Global and National scenario 1.2 Major cultivable species for aquaculture: freshwater, brackish water and marine. 1.3 Traditional, extensive, modified extensive, semi-intensive and intensive cultures of fish and shrimp. 1.4 Design and construction of fish and shrimp farms
January'23	
	UNIT II: 2.1 Functional classification of ponds – head pond, hatchery, nursery ponds 2.2 Functional classification of ponds -rearing, production, stocking and quarantine ponds 2.3 Need of fertilizer and manure application in culture ponds 2.4 Physio-chemical conditions of soil and water optimum for culture (Temperature, depth, turbidity, light, water, PH, BOD, CO2 and nutrients)
February'23	
	UNIT III: 3.1 Induced breeding in fishes 3.2. Culture of Indian major carps: Pre-stocking management (Dewatering, drying, ploughing/desilting; redators, weeds and algal blooms and their control, Liming and fertilization) 3.3. Culture of Indian major carps - Stocking management 3.4. Culture of Indian major carps - post-stocking management
March'23	
	 UNIT IV: 4.1 Commercial importance of shrimp & prawn 4.2 Macrobrachium rosenbergii- biology, seed production. 4.3 Culture of L. vannamei – hatchery technology and culture practices 4.4 Mixed culture of fish and prawns
April'23	UNIT V:
	5.1 Viral diseases of Fin Fish & shell fish
	5.2 Fungal diseases of Fin & Shell fish5.3 Bacterial diseases of Finfish & Shell fish
	5.4 Prophylaxis in aquaculture

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III B.Sc. ZOOLOGY ACADEMIC PLAN 2022-23

SEMESTER -V PAPER-7A (POSTHARVEST TECHNOLOGY OF FISH AND FISHERIES)

MONTH	TOPIC COVERED
December'22	UNIT I:
	Handling and Principles of fish Preservation
	1. 1 Handling of fresh fish, storage and transport of fresh fish, post mortem
	changes (rigor mortis and spoilage), spoilage in marine fish and freshwater
	fish.
	1.2 Principles of preservation – cleaning, lowering of temperature, rising of
	temperature, denudation, use of salt, use of fish preservatives, exposure to low
	radiation of gamma rays.
January'23	UNIT II:
	Methods of fish Preservation .
	2.1 Traditional methods - sun drying, salt curing, pickling and smoking.
	2.2. Advanced methods – chilling or icing, refrigerated sea water, freezing,
	canning, irradiation and Accelerated Freeze drying (AFD).
	Ar D).
February'23	UNIT III:
•	Processing and preservation of fish and fish by-products
	3.1 Fish products – fish minced meat, fish meal, fish oil, fish liquid (ensilage).
	fish protein concentrate, fish chowder, fish cake, fish sauce, fish salads, fish
	powder, pet food from trash fish, fish manure.
	3.2 Fish by-products – fish glue, Using glass, chitosan, pearl essence, shark
	fins, fish Leather and fish maws.
	· ·
March'23	UNIT IV:
	Sanitation and Quality control
	4.1 Sanitation in processing plants - Environmental hygiene and Personal
	hygiene in processing plants.
	4.2 Quality Control of fish and fishery products – pre-processing control
	control during processing and control after processing.
	control during processing and control area processing.
April'23	UNIT V:
April 25	Quality Assurance, Management and Certification
	5.1. Seafood Quality Assurance and Systems: Good Manufacturing Practice
	(GMPs); Good Laboratory Practices (GLPs); Standard Operating Procedure
	(SOPs); Concept of Hazard Analysis and Critical Control Points (HACCP)
	seafood safety.
	5.2 National and International standards – ISO 9000: 2000 Series of Quali
	Assurance System, Codex Aliment Arius.

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III B.Sc. ZOOLOGY ACADEMIC PLAN 2022-23

SEMESTER -V PAPER-6B

(LIVE STOCK MANAGEMENT-I (BIOLOGY OF DAIRY ANIMALS)

TOPIC COVERED ==
UNIT I:
Livestock census; Breeds of Dairy cattle, Buffaloes and Goats, Indigeno
Exotic and Crossbred Cattle breeds
UNIT II:
Anatomy of Udder: Development of 114
Anatomy of Udder; Development of udder; Lacto genesis and Galactopois; Letdown of milk.
and the state of t
UNIT III:
Artificial insemination; Oestrous cycle; Symptoms of heat in cows a
buffaloes. Conception, Pregnancy diagnosis in cattle. Multi ovulation a
embryo transfer technique. Cloning.
UNIT IV:
Economic traits of Dairy cattle. Methods of selection of dairy animals.
, and the state of
UNIT V:
Systems of Dairy cattle breeding. Inbreeding, out breeding, Cross breeding
Grading up. Breeding systems (Cross breeding of cattle and Grading up
buffaloes).
buridioes).

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HI B.Sc. ZOOLOGY ACADEMIC PLAN 2022-23

SEMESTER -V PAPER-7B

(LIVE STOCK MANAGEMENT -II (DAIRY PRODUCTION AND MANAGEMENT)

MONTH	TOMA (TOWN AND MANAGEMENT)
December'22	TOPIC COVERED -
	UNIT I: Systems of Housing of Dairy cattle- Loose Housing and Conventional Dairy Barns. Drawing of layouts for dairy cattle dwellings; Criteria for selecting site for establishing Dairy farm buildings; Water requirement of dairy animals.
January'23	UNIT II: Management of different classes of Dairy animals- Milk producing animals pregnant animals dry animals, heifers and calves. Management practices for Dairy farm; Identification, Dehorning, Castration, Deworming, Vaccination Disinfection, and Milking.
February'23	unit III: a. Pasteurization of milk: Definition, objects of pasteurization, objections to pasteurization, Principles of heat exchange. Methods of pasteurization: LTLT HTST and Uperization. b) Sterilization of milk. Homogenization: Factor influencing homogenization
March'23	UNIT IV: Market milk: Toned milk, double toned milk, Reconstituted milk Standardized milk and full cream milk— Standards and methods of manufacture.
April'23	UNIT V: Cream: Types of cream, composition, methods of cream separation, gravity and centrifugal methods, types of cream separators, factors affecting fat losse in skim milk and fat percentage in cream.

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6.9. GOVT. COLLEGE FOR WOMEL AUTONOMO

ASD GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS), KAKINADA. DEPARTMENT OF ZOOLOGY & AQUACULTURE TECHNOLOGY I B.Sc. AQUACULTURE TECHNOLOGY ACADEMIC PLAN 2022-2023

SEMESTER-I PAPER-I (BASIC PRINCIPLES OFAQUACULTURE)

MONTH	OFAQUACULTURE)
November'21_	UNIT- I: TOPIC COVERED
	INTRODUCTION:
	1.1 Concept Spi
	1.1. Concept of Blue Revolution - History and definition of Aquaculture: 1.2. Difference of Aquaculture at global Level, India and Andhra Produck
*	Scope of Aquaculture at global Level, India and Andhra Pradesh. Extensi
	1 Different Aquanda
	Extensive, Intensive and & Semi-Intensive Systems and their significance. 1.3. Monoculture, Polyculture and Monosex culture systems.
	1.3. Monoculture, Polyculture and Monosex culture systems.
December'22	LINIT II Do
	UNIT II: POND ECOSYSTEM
(4)	2.1 General Concepts of Factor Concepts
	2.2 Lotic and lentic systems, streams and spring. 2.3 Nutrient Cycles in Cycles.
18	The control of the co
	Importance of Plankton and Benthos in culture ponds, nutrient dynamics and algal blooms.
	algal blooms.
	2.4 Concepts of Productivity, estimation and improvement of productivity.
Ianuam 227	
January'23	UNIT III: TYPES OF FISH PONDS
	3.1 Classification of ponds based on water resources
ĉ.	water, well water dill water course nonde
	3.2 Functional classification of ponds - head pond, batchen, pursuant
	5.5 I diletional classification of ponds -rearing production stocking and
	quarantine ponds.
•	3.4 Fish Hatchery design.
February'23	UNIT IV: POND PREPARATION
	4.1 Important factors in the construction of an ideal fish pond – site
	selection, topography.
	4.2 Important factors in the construction of an ideal fish pond- nature of the
	soil, water resources.
	4.3 Lay out and arrangements of ponds in a fish farm.
	4.4 Construction of an ideal fish pond - space allocation, structure and
	components of barrage pond.
March'23	UNIT V: POND MANAGEMENT FACTORS
	5.1 Need of fertilizer and manure application in culture ponds.
	5.2 Role of nutrients; NPK contents of different fertilizers and manures used
	in aquaculture; and precautions in their application.
	5.3 Physico-chemical conditions of soil and water optimum for culture –
	temperature, depth, turbidity, light, water and shore currents, PH, DOD,
	CO2 and nutrients; measures to increase oxygen and reduce ammonia &
	La Jeanan sulphide in culture ponds; correction of PH.
	a fundination of predators and weed control – advantages and
	to the planes of weed, weed plants in culture ponds, aquatic weeds, weed
	fish, toxins used for weed control and control of predators.
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1 B.Sc. AQUACULTURE TECHNOLOGY ACADEMIC PLAN 2022-2023 SEMESTER-II PAPER-II (BIOLOGY OF FIN FISH & SHELL FISH)

MONTH	TOPE TOPE TO THE PLAN 2022-2023
April'23	UNIT I: Const. TOPIC COVERED
	Shell Fish: 1.1 General Characters & Classification of Cultivable Fin & and molluses up to the level of Class. 1.2 Fish, Crustaceans and Mark
	and mothers and other is
	1.2 Fig. 2.2 Fig. 1.2 Fig. 2.2
	1.2 Fish, Crustaceans and Mollycon C
	 1.2 Fish, Crustaceans and Molluscs of commercial importance. 1.3 Sense organs of fishes, crustaceans and molluscs. 1.4 Buoyancy in fishes- swim bladder and molluscs.
	1.4 Buoyancy in fishes and molluses.
M 122	oranger and mechanism of gas never
May'23	UNIT II: Food, Feeding and Growth: 2.1 Natural fish food for its
	2.1 Natural Get and Growth:
	2.1 Natural fish food, feeding habits, feeding intensity, stimuli for feeding to feeding habits.
	utilization of food gut content analysis, structural modifications in relation 2.2 Principles of A.
	The pies of Ago and
	2.2 Principles of Age and growth determination; growth regulation,
	age indicators.
	2.3 Genetic, biotic & ecological factors in determining the longevity of
	fishes, length fragues of fishes, length fragues at the longevity of
	fishes, length frequency method, age composition, age-length keys, absolute and specific growth, back calculation, all
	absolute and specific growth, back calculation of length and growth, annual survival rate, asymptomatic length, 5td.
	annual survival rate, asymptomatic length, fitting of growth curve.
	2.4 Length-weight relationship, condition factor/Ponderal index, relative condition factor.
	condition factor. condition factor/Ponderal index, relative
June'23	UNIT III: Reproductive Biology:
	3.1 Breeding in fishes, breeding places, breeding habits & places. 3.2 Breeding in natural environment and in the state of the state o
	3.2 Breeding in natural environment and its & places.
¥	3.2 Breeding in natural environment and in artificial ponds, courtship and reproductive cycles.
	3.3 Induced breeding in fishes.
	3.4 Prooding in 11shes.
	3-4 Breeding in shrimp, pearl oyster, pila, and cephalopods.
I1122	·
July'23	UNIT IV: Development:
	4.1 Parental care in fishes, ovo-viviparity, oviparity, viviparity, nest
	building and brooding.
	4.2 Embryonic and larval development of fishes.
	4.3 Embryonic and larval development of shrimp, crabs and molluses of
	commercial importance.
	4.4 Environmental factors affecting reproduction and development of
	cultivable aquatic fin & shell fish.
	cultivable aquatic fill & shell fish.
August222	UNIT V: Hormones & Growth
August'23	
	5.1 Endocrine system in fishes.
	5.2 Neurosecretary cells, androgenic gland, ovary.
	5.3 Y-organ, chromatophores, pericardial glands and cuticle.
	5.4 Molting, molting stages, metamorphosis in crustacean shell fish.

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II B.Sc. AQUACULTURE TECHNOLOGY ACADEMIC P SEMESTER- III PAPER-III (FISH NUTRITION AND FEED

MONTH	ISH NUTRITION ACADEMIC PLANS
November'22_	III PAPER-III (FISH NUTRITION AND FEED TWECHNOLOGY) UNIT 1: Nutritional Requirements 1.1 Requirements 1.1 Requirements 1.2 Requirements 1.2 Requirements 1.2 Requirements 1.3 Requirements 1.4 R
~~~	UNIT I: Nutritional Requirements of Cultivable Fish:  1.2 Essent:
	1.1 Requirements for energy, proteins, carbohydrates, lipids, fiber.  1.2 Essential aminoacids and fatty acids.
	micropage for epor
	12 F
	Essential amine stages of culting the
	nutrient interaction and fatty and fish and prove
	1.3 Dietas and protein to an
	1.2 Essential aminoacids and fatty acids, protein to energy ratio.  1.3 Dietary sources of energy, effect of retired.
	1.3 Dietary sources of energy, effect of ration on growth,  1.4 Factors affecting energy parties.
	ractors affecting on growth,
December'22_	S circle partie:
24	UNIT II: Forms Of Feeds & Feeding Methods:  efficiency ratio
	2.1 Feed on Of Feeds & Footh
	efficient efficiency of Methods:
	2.2 view ratio.
	2.1 Feed conversion efficiency, feed conversion ratio and protein efficiency ratio.  2.2 Wet feeds, moist feeds, dry feeds, mashes, pelleted feeds, floating and sinking pellets, advantages of pelletization.
	and sinking pall
	and sinking pellets, advantages of pelletization.  2.3 Manual feeding, demand feedors.
	Spraying 1
	2.3 Manual feeding, demand feeders, automatic feeders, surface 2.4 Frequency of feeding.
	2.4 Frequency of feeding.
January 122	
January'23	UNIT III: Feed M.
	UNIT III: Feed Manufacture & Storage:  3.1 Feed ingredients and their
	3.1 Feed ingredients and their selection, nutrient composition and nutrient availability of feed ingredients.
	nutrient availability of feed ingredients.  3.2 Feed formulation
	3.2 1 ced formulation
	grinding, mixing and drying, pelletization, and packing.  3.3 Water stability of feeds, farm med.
	3.3 Water stability of feeds, farm made aqua feeds, micro-coated feeds, micro-encapsulated feeds and mi
	feeds micro control
	feeds, micro-encapsulated feeds and micro-bound diets.
	in this cut diff indent downs - co
	during storage period and proper storage methods.
	and proper storage methods.
February'23	UNIT IV: Food Addis o St
	UNIT IV: Feed Additives & Non-Nutrient Ingredients:
	4.1 Binders, anti-oxidants, probiotics.
	4.2 Feed attractants and feed stimulants.
	4.3 Enzymes, hormones, growth promoters and pigments.
	4.4 Anti-metabolites, afflatoxins and fiber.
	4.4 And-metabolites, amatoxins and fiber.
Manalian	
March'23	UNIT V: Nutritional Deficiency In Cultivable Fish:
	5.1 Protein deficiency, vitamin and mineral deficiency symptoms.
	5.2 Nutritional pathology and ant-nutrients.
	5.3 Importance of natural and supplementary feeds.
	5.4 Importance of balanced diet.

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# H B.Sc. AQUACULTURE TECHNOLOGY ACADEMIC PLAN 2022-2023 SEMESTER- IV PAPER-IV (FRESH WATER & BRACKISHWATER AQUACULTURE)

MONTH	TER-IV (FRESH WATER & BRACKISHWATER AQUACULTURE)
April'23	UNIT-I: Introduction to Freshwater Aquaculture
	1.1 Status, scope and prospects of fresh water aquaculture in the
	world, India and AP,
	1.2 Different fresh water aquaculture systems.
May'23	UNIT II: Carp Culture:
	2.1 Major cultivable Indian carps – Labeo, Catla and Cirrhinus &
	Minor carps.
	2.2 Exotic fish species introduced to India – Tilapia, Pangassius and
	Clariussp.
	2.3 Composite fish culture system of Indian and exotic carps.
	2.4 Impact of exotic fish, Compatibility of Indian and exotic carps and
	competition among them.
June'23	UNIT III: Culture of Air-Breathing and Cold Water Fish
	3.1 Recent developments in the culture of Clarius, Anabas, Murrels,
	3.2 Advantages and constraints in the culture of air-breathing and cold
	water fishes- seed resources, feeding, management and production.
	3.3 Special systems of Aquaculture- brief study of culture in running
	water, re-circulatory systems, cages and pens, sewage-fed fish culture.
July'2Z	UNIT IV: Culture of Prawn -
	4.1 Fresh water prawns of India - commercial value.
727	4.2 Macrobrachium rosenbergii and M. Malcomsonii – biology, seed
	production.
	4.3 Pond preparation, stocking, management of nursery and grow-out
	ponds, feeding, and harvesting.
August'23	UNIT V: Culture of Brackishwater Species
August 22	5.1 Culture of P.mondon – Hatchery technology and Culture practices
	including feed and disease management.
	including feed and disease management.  5.2 Culture of L. vannamei – hatchery technology and culture.
	including feed and disease management.

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# II B.Sc. AQUACULTURE TECHNOLOGY ACADEMIC PLAN 2022-2023 SEMESTER- IV PAPER-V (FISH HEALTH MANGEMENT

MONTH	APER-V (FISH HEALTH MANGEMENT & FISHERIES ECONOMICS)
April'23	
	in rungal diseases Campia
	1.1 Fungal diseases—Saprolegniosis, brachiomycosis, ichthyphorus diseases—Lagenidium diseases—Fusarium disease, prevention and therapy 1.2 Viral virania.
	discases - Emerging viscot to
	viremia of carps, infectious hematopoietic necrosis in trout, infectious almonids, swim-bladder inflorment
	panereatic necrosis in salmonids, swim-bladder inflammation in cyprinids.
	channel cat fish viral disease, prevention and therapy
	and vibrio infections, columnaris, furunculosis, epizootic ulcerative
	syndrome, infectious abdominal dropsy, bacterial gill disease, enteric red
	mouth, bacterial kidney disease, proliferative kidney disease, prevention and
May'23	therapy disease, prevention and
	UNIT II: Diseases of Shell Fish
	2.1 Major shrimp viral diseases
	Bacculovirus. Bacculoviral midgut necrosis, Infectious hypodermal and
	haematopoietic necrosis virus, Hepatopancreatic parvo like virus, Yellow
	head bacculovirus, white spot bacculovirus.
	2.2 Dacterial diseases of shell fish gorous
	2.3 Protozoan diseases- Ichthyophthiriasis, Costingia activity
	- I or ention and therapy
June'23	UNIT III: Fish Health Management
	3.1 Diagnostic tools – immune detection- DNA/RNA techniques
	preventive methods and prophylaxis. Application and development of
	vaccines.
	3.2 Quarantine – Significance, methods and regulations for transplants.
	3.3 Good Feed management for healthy organisms, Zero water exchange,
	Probiotics in health management, Issues of biosecurity.
July'23	UNIT IV: Fisheries Economics-
	14.1 Methods of economic analysis of business organizations
	4.2 Aquaculture economics- application of economics principles to
	aquaculture operations Various inputs and production function laws of
	variable proportions
	4.3 Cost and earnings of aquaculture systems – carp culture, shrimp farming
	systems,
August'22	UNIT V: Fisheries Economics-II
. Luguet Lu	5.1 Socio-economic conditions of fishermen in Andhra Pradesh
	5.2 Role of Matsyafed and NABARD in uplifting fishermen's conditions,
	fishermen cooperatives Contribution of fisheries to the national economy 5.3
	Economic analysis preparation of project and project appraisal

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# III B.Sc. AQUACULTURE TECHNOLOGY ACADEMIC PLAN 2022-23 SEMESTER -V PAPER-6A (SOIL AND WATER QUALITY

MONTH	-V PAPER-6A (SOIL AND WATER QUALITY MANAGEMENT)
December'22	UNIT I: TOPIC COVERED
	Soil quality
	1 Soil types - Let :
	1. Soil types and their distribution. Physical and chemical properties of soil
	I water balling pare space bull density and water balling
	1 Conductivity, Dil redox notontial soil calinity salarium and and
	Carried and the distriction of the state of
	and soil tertility
	2. Properties of water logged soils methans and hydrogen sulphid
	A Coulombate coule (ACC)
	The first rectalliation.
	3. Pond Seepage and its control. Soil quality criteria/requirements for
	aquaculture.
January'23	UNIT II:
	Water quality
	1. Water quality parameters: Temperature, transparency, salinity, dissolve
	oxygen, carbon dioxide, pH, alkalinity, hardness, conductivity, ammonia
	nitrites, nitrates, orthophosphates and hydrogen sulphide; phytoplankton
	zooplankton and benthos.
	2. Role of aquatic microorganisms in carbon, nitrogen, phosphorus and
	sulphur cycles.
	3. Water quality criteria for freshwater and brackish water aquaculture.
February'23	UNIT III:
restairy 25	Soil and Water amendments
	Liming: Liming materials off at CV
	1. Liming: Liming materials, effects of liming on pond ecosystem, limin
	rates for ponds, calculation of lime requirements and application of limin materials to ponds.
	2. Manures and Fertilizers: Types of manures and fertilizers, primary
	nutrients, micronutrients, fertilizer grades, quantity and method of
	application; Bio fertilizers.
	3. Pond fertilization: Role of organic and inorganic fertilizers in aquaculture
	Problems in ponds with indiscriminate fertilization.
March'23	UNIT IV:
	Pond water management
	1. Dial changes in dissolved oxygen concentration, oxygen depletion in ponds
	Aeration, Water exchange, Bio-floc technology.
	2. Water treatment, Water filtration devices, Waste water treatment practices
	Waste discharge standards, Re circulatory aquaculture system (RAS).
	3. Water quality management in freshwater carp culture; brackish water
	shrimp culture; and hatcheries.
April'23	UNIT V:
	Pond treatments
	1. Pond conditioners and Chemical treatments: Potassium permanganate
	Hydrogen peroxide, Calcium hydroxide, Rotenone, Formalin and Malachit
	green. Methods of applying chemicals.
	2. Reduction of pH; Control of turbidity, salinity, hardness and chlorides
	Chlorine removal; Removal of toxic gases.
	3. Control of algal blooms and aquatic weeds. Bioremediation: Soil and water
	probiotics for aquaculture ponds.

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# III B.Sc. AQUACULTURE TECHNOLOGY ACADEMIC PLAN 2022-23

# SEMESTER -V PAPER-7A (ORNAMENTAL FISH CULTURE)

MONTH	TATER-7A (ORNAMENTAL FISH CULTURE)
December'22	UNIT I: TOPIC COVERED
	Status of Ornament 1 G
	Status of Ornamental fish farming and trade
	2. Present status and prospects of ornamental fish farming and trade in Indian ornamental fish diversity and its status. Major provides in India.
	Indian ornamental fish diversity and its status. Major marine ornamental fish resources of India. Method of collection of live fish
	resources of India. Method of collection of live fish.  3. Types of aquaria. Here the status of the
	3. Types of aquaria – Home and Public aquaria (freshwater and marine).
January'23	UNIT II:
.,,	
	Ornamental fishes
	Origin and Benefits of ornamental fish keeping as a hobby.  2. Freshwater ornamental fishers at the second se
	3. Marine ornamental fishes—varieties and their habitets. Out-
Est. 100	- Continued Wollies Tobsiers Shrimps octobre starfed
February'23	Civil III;
	Aquarium Management
	1. Fabrication, setting up and maintenance of freshwater and marine and marin
	Briting and actation - Adularium plants and their proposition in the
	requartant accessories and decoratives. Selection of fishes and Species
	compatibility for aquarium keeping
	2. Water quality management for freshwater and marine aquariums. Weter
	indution systems - blological, mechanical and chemical Types of filters
	3. Aduarium fish feeds - Live feeds. Dry and wet feeds Diamontal feeds 6
	color children, larval leeds and feeding A Common disconnection
	aquarium fish - diagnosis and treatment. Control of snail and algal growth
	Medicines and chemicals used in aquaria.
March'23	UNIT IV:
	Breeding and Rearing of ornamental fishes
	1. Breeding of Live bearers and Egg layers – sex identification, conditionin
	of parent fish, stimulating spawning, parental care, hatching, and fry rearing
	2. Breeding of marine ornamental fishes (alous and try rearing
	2. Breeding of marine ornamental fishes (clown and damsel fishes) and larva rearing.
	3. Application of genetics and biotechnology for quality strain production.
A n.e.il'22	UNIT V:
April'23	
	Commercial Production of Aquarium fish and Plants
	1. Commercial production units of ornamental fish - requirements and desig
	2. Commercial production of live bearers, goldfishes, gouramies, barb
	angels and tetras.
	3. Mass production of aquarium plants. 4. Fish conditioning, packing
	transport and quarantine methods. Retail marketing and export of ornamenta
	fish.

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#### Department of HISTORY I B.A Semester-I

Month	Paper-l	Ancient Indian History & Culture (From Indus Valley Civil. to 13 Century A.D)
Öct - 2022	Unit-I	Indus Valley Civilization - Salient Features; Vedic Age - Society, Polity, Economy, Culture during early and later Vedic period.
Nov - 2022	Unit-II	Ancient Indian History & Culture (6th Century BC to 2rd Century AD): Doctrines and Impact of Jainism and Buddhism; Mauryan Administration, Society, Economy & Culture - Ashoka's Dhamma; Kanishka's Contribution to Indian Culture
Dec- 2022	Unit-III	History & Culture of South India (2nd Century BC to 8th Century AD): Sangam Literature; Administration, Society, Economy and Culture under Satavahanas; Cultural contribution of Pallavas.
Jan- 2023	Unit-IV	India from 3rd century AD to 8th century AD: Administration, Society, Economy, Religion, Art, Literature and Science & Technology under Guptas – Samudra Gupta; Cultural contribution of Harsha: Arab Conquest of Sind and its Impact.
Feb - 2023	Unit- V	History and Culture of South India (9th century AD to 13th century AD): Local Self Government of Cholas; Administration, Society, Economy and Culture under Kakatiyas – Rudrama Devi

#### Annual Academic Plan 2022-2023

#### Department of HISTORY II B.A Semester-III

Month		Paper-III Modern Indian History & Culture (1764-1947 A. D)
Oct - 2022	Unit-I	Policies of Expansion – Warren Hastings, Cornwallis - Subsidiary Alliance & Doctrine of Lapse – Causes & Results of 1857 Revolt – Lytton, Rippon, Curzon
Nov- 2022	Unit-II	Social, Religious & Self-Respect Movements – Raja Rammohan Roy, Dayananda Saraswathi, Swami Vivekananda, JyotibaPhule, Narayana Guru, Periyar, Dr. B. R. Ambedkar
Dec- 2022	Unit-III	Causes for the growth of Nationalism - Freedom Struggle from 1885 to 1920, Moderate Phase — Militant Phase: Vandemataram Movement - Home Rule Movement
Jan- 2023	Unit-IV	Freedom Struggle from 1920 to 1947: Gandhiji's Role in the National Movement – Revolutionary Movement – Subhas Chandra Bose
Peb- 2023	Unit- V	Muslim League & the Growth of Communalism – Partition of India – Advent of Freedom - Integration of Princely States into Indian Union – Sardar Vallabhai Patel

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## Department of History II B.A Semester-II

Month	Paper-II	Medieval Indian History & Culture (1206A.D To 1764 A.D)
April-2023	Unit-l	Impact of Turkish Invasions – Balban, AllauddhinKhilji, Md. Bin Tughlaq – Administration, Society, Economy, Religion and Cultural developments under Delhi Sultanate (from 1206 to 1526 AD).
May-2023	Unit-II	Impact of Islam on Indian Society and Culture – Bhakti Movement; Administration, Society, Economy, Religion and Cultural developments under Vijayanagara Rulers
June -2023	Unit-III	Emergence of Mughal Empire – Babur – Sur Interregnum - Expansion & Consolidation of Mughal Empire – Akbar, Jahangir, Shah Jahan,
July -2023	Unit-IV	Administration, Economy, Society and Cultural Developments under the
Aug- 2023	Unit- V	India under Colonial Hegemony: Beginning of European Settlements - Anglo-French Struggle – Conquest of Bengal by EIC.

### Annual Academic Plan 2022-2023

## Department of HISTORY II B.A Semester-IV

Month	Paper-IV	History & Culture of Andhra (from 1512 to 1956 AD)
April 2023	Unit-I	Andhra through 16th & 19th Centuries AD: Evolution of Composite culture- the Quatbshahi of Golkonda- Administration, Society & Economy - Literature & architecture: Advent of European and settlements in Andhra - Occupation of Northern Cricars and Ceded Districts - Early revolts again the British.
May-2023	Unit-II	Andhra Under British rule: Administration - Land revenue settlements - Society - Education - Religion - Impact of Industrial revolution on economy- peasantry &famines - contribution of sir Thomas Munroe &C.P. Brown - impact of 1857
June -2023	Unit-III	Social Reforms &New literary Movements: Kandukuri Vereeshalingam, Ragupathi Venkatarathnam Naidu, Guruzada AppaRao, Kommarraju Venkata Laxman Rao; New literacy movements: Rayaprolu Subbarao, Viswanath Satyanarayana, Gurram Jashua, Boyi Bhimanna, Sri Sri.
July - 2023	Unit-IV	Freedom Movement in Andhra (1885-1947): Vandemataram Movement  Home Rule Movement in Andhra - Non- Cooperation Movement -  AlluriSectarama Raju &Rampa Revolt (1922-24) - Civil Disobedience  Movement - Quit India Movement.
Aug-2023	Unit- V	Movement for separate Andhra State (1953) and AP (1956): Causes – Andhra Maha Sabha – Conflict between Coastal Andhra &Rayalaseema – Sri Bagh Pact – work of various Committees – Martyrdom of PottiSriramulu – Formation of separate Andhra State (1953); Movement for formation of Andhra Pradesh (1956): VisalandhraMahasabha – Role of Communists – States Reorganization Committee – Gentlemen's Agreement – Formation of Andhra Pradesh

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#### Department of HISTORY III B.A Semester-V Paper- VI B

Month		Paper- VI B
	Semester	- V (Skill Enhancement Course- Elective) Tourism and Hospitality Services
Dec- 2022	Unit-I	Tourism-Definition-Nature and Scope-History of Tourism-Types of Tourism- Domestic and International Tourism- Causes of rapid growth of tourism- National Institute of Tourism and Hospitality Management
Jan- 2023	Unit-II	Relationship between history and tourism-Major tourist spots in AP- Gandikota, Nagarjuna Konda, Salihundam, Kona Seema
Feb - 2023	Unit-III	Characteristics of Hospitality Industry-Inflexibility, Intangibility, Perishability-Types of Hospitality jobs – Hotel Manager, Hotel Receptionist, Restaurant Manager, Catering Assistant, Executive Chef etc Concepts of Atithi Devo Bhavah-Types of hotels in India
Mar -2023	Unit-IV	Duties, responsibilities &skills of front office staff—duties, responsibilities and skills of housekeeping staff- guest stay process in a hotel-major processes and stages associated with it
April- 2023	Unit- V	101110

# Annual Academic Plan 2022-2023 Department of HISTORY III B.A Semester-V SEM Paper VII B

Month	PAPER VII-B  Tourism Guidance and Operating Skills		
Dec- 2022	Unit-I	Meaning of tour guide - types of tour guide: heritage guide, nature guide, adventure guide, business guide, special interest guide etc - duties and responsibilities of guides -various roles of tour guide	
Jan- 2023	Unit-II	Guiding techniques: leadership skills, social skills, presentation skills, communication skills – Guide's personality skills: passion, empathy, enthusiasm, punctuality, humour etc Personal Hygiene and grooming – code of conduct.	
Feb - 2023	Unit-III	Guest Relationship Management- Handling emergency situations- Medical, Personal, Official, VISA/Passport, Death, Handling Guest with special needs/Different Abilities/Different age groups	
Mar - 2023	Unit-IV	Conducting Tours: Pre-Tour Planning, Route Chart, Modes of Transportation, Security - Measures, and Check list etcConducting various types of tours- Relationship with Fellow Guides Coordination with hospitality institutions.	
April- 2023	Unit- V	Travel Agency and Tour operations – Difference between Travel Agent and Tour operator – Functions of Tour Operator – Types of Tour Operations and of Tour Operators - A brief study of tour operating agencies like APTDC, Southern Travels etc.	

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# Department of HISTORY II B.A Semester-IV Paper - V

Month	Paper-V	History Of Modern World (From 15th Cent. AD to 1945 AD)
April 2023	Unit-I	Transformation from Medieval to Modern Era – Chief Characteristics; Glorious Revolution (1688) Origin of Parliament Bill of Rights – Results
May-2023	Unit-II	American Revolution (1776); French Revolution (1789) – Causes, Course and Results.
June -2023	Unit-III	Unification of Italy; Unification of Germany
July - 2023	Unit-IV	Communist Revolution in Russia; World War I: Causes – Results of the War – Paris Peace Conference; League of Nations
Aug-2023	Unit- V	World War II: Causes, Fascism & Nazism – Results; The United Nations Organization: Structure, Functions and Challenges.

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#### **Department of Economics**

#### I B.A Semester-I

Paper-I N	IICRO ECONOMIC ANALYSIS		
Unit-I	Definitions of Economics-Scarcity and Choice as fundamental problems of		
	economics -Opportunity Cost - Micro and Macro Analysis - Micro economic		
	analysis - Scope and Importance -Principles of Microeconomics <u>Production</u>		
	Possibilities Curve: Allocation of Resources - Optimization, Equilibrium and		
	Marginal analysis -Rationality Principle the concept of Welfare		
Unit-II	Concept of Demand -Factors determining demand - Law of Demand - reasons		
	and exceptions - Elasticity of 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.		
Unit-III	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.		
Unit-IV	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.		
Unit- V	The concepts of Functional and Personal Distribution of Income - Marginal		
	Productivity Theory of Distribution - Modern Theory of Distribution -Concept of		
	Rent - 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		
	Unit-II  Unit-IV		

#### **Department of Economics**

#### II B.A Semester-III

Month	Paper-III	DEVELOPMENT ECONOMICS
Oct -2022	Unit-I	Economic Development as a Branch of Study of Economics – Scope and
		Importance - Distinction between Economic Growth and Economic
		Development -Measures of Economic Development and their limitations -
		Relevance of Herd (Group) Immunity in the context of COVID 19 - three
		core values of economic development : Sustainability, Self-esteem and
		Freedom – Economy and Environment : Concepts of sustainable
		development and inclusive growth.
Nov-2022	Unit-II	Characteristics of Underdeveloped Countries - World Bank and IMF
		Classification of countries - Modern economic growth - Kuznets' Six
		Characteristics - Obstacles to economic development - Vicious Circle of
		Poverty and cumulative causation - Factors of economic growth: Economic
		and Non-economic - Capital Formation - Foreign and Domestic capital,
		Debt and Disinvestment.
Dec-2022	Unit-III	Classical Theory: Adam Smith, Ricardo and Malthus -Marxian Theory -
		Schumpeter Theory -Rostow's Stages of Economic Growth - Harrod-
		Domar two sector model -Solow's Model and Robinson's Golden Age
Jan-2023	Unit-IV	Strategies of Economic Development – Big Push - Balanced Growth -
		Unbalanced Growth - Mahalanobis Model - Agriculture vs Industry -Capital
		Intensive Technology vs Labour Intensive Technology -Role of
		Infrastructure in Economic Development,
Feb-2023	Unit- V	Role of State in Economic Development -Role of Markets - Market Failure
		and Regulation by State -Public sector vs Private sector -Economic Planning
		- concept, objectives and types -NITI Ayog - Economic Federalism -
		Financial Institutions and Economic Development -Role of International
		Institutions-IDBI, ADB, IMF - Foreign Trade - FIIs and FDIs.

#### **Department of Economics**

#### III B.A Semester-V Paper- V

Month		Paper- VIC: Insurance Services
Dec- 2022	Unit-I	Risk Management: Risk and Uncertainty, Risk Classification - Concept,
		Importance and Types of Insurance – Principles of Insurance – Insurance
		Regulations in India - Role of IRDAand Insurance Ombudsman –Scope for
		Insurance Business in India.
Jan- 2023	Unit-II	Life Insurance: Nature and Features - Major Life Insurance Companies in
Jan- 2025	OIIII-II	ů .
		India – Important Life Insurance Products/policies and their Features:
		Conventional, Unit Linked, Annuities, Group Policies – Medical Examiner.
Feb - 2023	Unit-III	General Insurance: Nature, Features and Types - Major General Insurance
		Companies in India - Important General Insurance Products/Policies and their
		Features - Surveyor – Health Insurance: Nature and Features - Health
		Insurance Companies in India - Major Health InsuranceProducts/policies and
		their Features: Individual, Family, Group.
Mar -2023	Unit-IV	Insurance Contract and Terms of Insurance Policy - Registration of Insurance
		Agency with the Company — Procedure to issue a Policy: Application and
		Acceptance – Policy Lapse and Revival – Premium Payment, Assignment,
		Nomination and Surrender of Policy – Policy Claim - Important Websites and
		Apps of Insurance in India
April- 2023	Unit- V	Insurance Customer and Categories – Understanding Customer Mindset and
		Satisfaction -Addressing the Grievances of the Customer – Ethical Behavior in
		Insurance – Moral Hazard–Discussion of two different Case Studies related to
		Life or General or Health Insurance Services.

#### **Department of Economics**

#### III B.A Semester-V SEM Paper VIIC

Dec- 2022 Unit-I Meaning of Banking – Principles of Banking – Functions of F Structure of Indian Banking System – Regulations of Banking in Indian of RBI in Banking – Anti-moneyLaundering - Basics of Financial Problems and Challenges of Banking in India.  Jan- 2023 Unit-II Bank Deposit Account Types – Account Opening and Closing – Customer types –KYC Norms – Negotiable Instruments: Cheque Exchange, Promissory Note, Endorsement - Principles of Lending – Categories of Loans – Mortgaging – Priority Sector Lending – Facilities: Debit Card, Credit Card, Net Banking, Mobile Banking, Micro ATMs, Digital Currency – Core Banking Solutions.  Feb - 2023 Unit-III Banking Correspondent Model - Activities of Banking Correspondent Model of Borrowers, Collection and Loan, Other Banking Services – Common Services Centre (CSC) – of Services by CSC – Requirement for Registering CSC and Telecer Study of Banking Correspondents with any Bank or CSC in Local Activities of Banking CSC and Telecer Study of Banking Correspondents with any Bank or CSC in Local Activities of Banking CSC and Telecer Study of Banking Correspondents with any Bank or CSC in Local Activities of Banking CSC and Telecer Study of Banking Correspondents with any Bank or CSC in Local Activities of Banking CSC and Telecer Study of Banking Correspondents with any Bank or CSC in Local Activities of Banking CSC and Telecer Study of Banking Correspondents with any Bank or CSC in Local Activities of Banking CSC and Telecer Study of Banking Correspondents with any Bank or CSC in Local Activities of Banking CSC and Telecer Study of Banking Correspondents with any Bank or CSC in Local Activities of Banking CSC and Telecer Study of Banking Correspondents with any Bank or CSC in Local Activities of Banking CSC and Telecer Study of Banking Correspondents with any Bank or CSC in Local Activities of Banking CSC and Telecer Study of Banking CSC and T	dia – Role literacy -  Banking e, Bill of Different
of RBI in Banking – Anti-moneyLaundering - Basics of Financial Problems and Challenges of Banking in India.  Jan- 2023 Unit-II Bank Deposit Account Types – Account Opening and Closing – Customer types –KYC Norms – Negotiable Instruments: Chequ Exchange, Promissory Note, Endorsement - Principles of Lending – Categories of Loans – Mortgaging –Priority Sector Lending – If facilities: Debit Card, Credit Card, Net Banking, Mobile Banking, Micro ATMs, Digital Currency – Core Banking Solutions.  Feb - 2023 Unit-III Banking Correspondent Model - Activities of Banking Correspondent Model of Borrowers, Collection and Loan, Other Banking Services – Common Services Centre (CSC) – of Services by CSC – Requirement for Registering CSC and Telecer	Banking e, Bill of Different
Problems and Challenges of Banking in India.  Jan- 2023 Unit-II Bank Deposit Account Types – Account Opening and Closing – Customer types –KYC Norms – Negotiable Instruments: Chequ Exchange, Promissory Note, Endorsement - Principles of Lending – Categories of Loans – Mortgaging –Priority Sector Lending – In facilities: Debit Card, Credit Card, Net Banking, Mobile Banking, Micro ATMs, Digital Currency – Core Banking Solutions.  Feb - 2023 Unit-III Banking Correspondent Model - Activities of Banking Cor	- Banking e, Bill of - Different
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categories of Loans – Mortgaging –Priority Sector Lending – If facilities: Debit Card, Credit Card, Net Banking, Mobile Banking banking, Micro ATMs, Digital Currency – Core Banking Solutions.  Feb - 2023 Unit-III Banking Correspondent Model - Activities of Banking Correspondent Model in Banking Correspondent	
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Feb - 2023 Unit-III Banking Correspondent Model - Activities of Banking Correspondent Model - Activities Mode	ing, Tele-
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Deposit Mobilization. Identification of Borrowers, Collection and Loan, Other Banking Services – Common Services Centre (CSC) - of Services by CSC – Requirement for Registering CSC and Telecer	
Loan, Other Banking Services – Common Services Centre (CSC) - of Services by CSC – Requirement for Registering CSC and Telecer	espondent:
of Services by CSC – Requirement for Registering CSC and Telecer	Recovery
	Provision
Study of Banking Correspondents with any Bank or CSC in Local Andrews of CSC in Local Andrews of Banking Correspondents with any Bank or CSC in Local Andrews of Banking Correspondents with any Bank or CSC in Local Andrews	ntre - Case
	rea.
Mar -2023 Unit-IV Non-Banking Financial Institutions (NBFIs): Types and Major I	Players of
NBFIs in India – Important Financial Services offered by NBFIs	and their
Features – Concept of EMI – Micro Finance: Concept and Operat	ion - Chit
Funds: Concept and Operations—Payment Banks -	
Regulations of NBFIs in India – Problems and Challenges of NBFIs	in India.
April- 2023 Unit- V Types of loans by Finance Service Company (FSC) - Customer	of FSC:
Types and Needs - Marketing of FSC's Loans - Procedures and Req	uirements
in FSC's Loan Sanction - Collection and Recovery of FSC Loans - C	lase Study
of a FSC's services in Local Area.	

#### **Department of Economics**

#### I B.A Semester-II

Month		Paper-II MACRO ECONOMIC ANALYSIS
April-2023	Unit-I	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
May-2023	Unit-II	Classical Theory of Employment - Say's Law of Markets - Criticism -
		Keynesian Theory of Employment - 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
June -	Unit-	Definitions of Money - Concepts of Money, Liquidity and Finance - Money
2023	III	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
July -	Unit-	Inflation: Concepts of Inflation, deflation, reflation and stagflation - Phillip's
2023	IV	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.
Aug-	Unit-	Financial Assets and Financial Instruments - Financial Markets - Functions
2023	V	of Money Market - Functions of Capital Market - Stock Market - Exchanges
		- Indices:Sensex and Nifty - Concept of Insurance -Types and Importance of
		Insurance.

#### **Department of Economics**

#### I B.A Semester-IV

Month	Pape	er-IV ECONOMIC DEVELOPMENT-INDIA AND ANDHRA PRADESH
April	Unit-I	Basic characteristics of Indian Economy as a developing economy -
2023		Economic development since independence - Objectives and achievements
		of planning - Planning Commission/NITI Ayog and their approaches to
		economic development - India's Rank in Global Human Development Index
May-	Unit-II	Trends in National income - Demographic trends - Poverty and Inequalities -
2023		Occupational Structure and Unemployment - Various Schemes of
		employment generation and eradication of poverty - Issues in Rural
		Development and Urban Development -Intra-state and Inter- state Labour
		Migration and unorganized sector Problems of Migrant Labour
June -	Unit-III	Indian Agriculture – Agricultural Strategy and Agricultural Policy – Agrarian
2023		Crisis and land reforms - Agricultural credit - Minimum Support Prices -
		Malnutrition and Food Security - Indian Industry - Recent Industrial Policy -
		Make-in India – Start-up and Stand-up programmes – SEZs and Industrial
		Corridors - Economic Reforms and their impact - Economic initiatives by
		government of India during COVID - Atmanirbhar Bharat package.
July -	Unit-IV	Fiscal policy- Indian Tax System and Recent changes – GST and its impact on
2023		Commerce and Industry – Centre, States financial relations- Recommendations
		of Recent Finance Commission - Public Expenditure and Public Debt -
		Concepts of Budget.
Aug-	Unit- V	The basic characteristics of Andhra Pradesh economy after bifurcation in 2014 –
2023		Impact of bifurcation on the endowment of natural resources and state revenue –
		new challenges to industry and commerce - the new initiatives to develop
		infrastructure – Power and Transport –Health and Education- Information
		Technology and e-governance – Urbanization and smart cities – Skill
		development and employment –Recent Social welfare programmes

#### **Department of Economics**

#### II B.A Semester-IV Paper - V

Month		Paper-V STATISTICALMETHODSFORECONOMICS
April 2023	Unit-I	Introduction to Statistics – Definition, scope, importance and limitations of Statistics – Primary and Secondary data- Census and Sampling techniques and their merits and demerits.
May-2023	Unit-II	Collection of data - Schedule and questionnaire – Frequency distribution  -Tabulation – diagram and graphic presentation of data – Histogram,  Frequency Polygon, Cumulative Frequency Curves-Bar Diagrams and Pie Diagram.
June -2023	Unit-III	Measures of Central Tendency and Dispersion -Typesofaverages- ArithmeticMean,GeometricMean,HarmonicMean-Median-Mode- Dispersion - Range, Quartile Deviation, Mean Deviation, Standard Deviation- Coefficient of Variation.
July - 2023	Unit-IV	Correlation and Regression-Meaning, Definition and uses of Correlation-TypesofCorrelation-KarlPearson'sCorrelationcoefficient-Spearman's Rank Correlation -Regression Equations-utility of regression analysis-Demand forecasting.
Aug-2023	Unit- V	Time Series and Index Numbers: Definition and components of Time Series – Measurement of Time Series – Moving Average and the Least Squares Method – Index Numbers - Concepts of Price and Quantity Relatives – Laspeyer's, Paasche's and Fisher's Ideal Index Numbers– Uses and Limitations of Index Numbers.

### **Department of Economics**

#### I B.A Semester-VI

Month	Long term Semester Internship
April- July	Students will go for long term Semester Internship

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#### Annual Academic Plan 2022-2023

#### Department of TOURISM III B.A Semester-V Paper- VI C

Month	Paper- 6C Tourism Destination Marketing				
Dec- 2022	Unit-I	Destination development: Introduction, types of destinations Characteristics, destination selection process 5 As in Destination management Destination Mapping - Destinations Analysis: -Tourism Vs Attractions			
Jan- 2023	Unit-II	Destination Planning & Development: Importance of Destination Planning, Destination  Planning Process Destination Planning Guidelines – National, State, & Regional Tourism  Planning Economic, Social, Cultural, and Environmental considerations in Tourism  planning Destination Development			
Feb - 2023	Unit-	Destination Marketing- Introduction of Destination Marketing, Marketing environment Destination Marketing Mix: Product, Price, Place, and Promotion Product Strategies, Managing existing Tourism Products, New Product development in Tourism. Pricing Strategies-Tourists Perception on Pricing -Dixey's irritation index.			
Mar -2023	Unit-	Destination Distribution and Image of Destination – Destination Distribution: Strategies, Channels Developing a Destination Promotional strategies Destination Image: Image Formation Process-Image strategies Tourism Destination Cycle – Destination competitiveness.			
April- 2023	Unit-	Destination Publicity: Advertising - Sales Promotion, sales promotion techniques Publicity: Role of AP Tourism & Ministry of Tourism, GOI, for the promotion of destinations Tourism Marketing Communication: Importance, techniques, Barriers, the process of communication - Trends in the Communication.			

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## Department of TOURISM III B.A Semester-V SEM Paper VII-C

Month		PAPER VII-C Itinerary Preparation and Tour Packaging
Dec- 2022	Unit-I	Itinerary Planning & Development: Meaning, Importance, Concept of Itinerary Planning Resources and Steps for Itinerary Planning -Types of Itinerary Do's and Don'ts of Itinerary Preparation components of Itinerary, Relevance & scope.
Jan- 2023	Unit-II	Developing & Innovating Package Tour: Formulation and Designing Process of Tour: Free Independent Tours (FITs) Group-Special Interest Tours (SITs), Tour Packaging: Importance of Tour Packaging - Classifications of Tour Packages, Components of Package tour- Pre designed & Tailor-made packages
Feb - 2023	Unit-	The concept of Costing: Types of Costs, Components of Tour Cost - Preparation of Cost Sheet Tour Pricing - estimation of Tour Price - Pricing Strategies Negotiations & contract with the suppliers Tour Packages of Thomas Cook, SOTC, Cox & Kings and TCl.
Mar -2023	Unit-	Operation of Package Tour: Confirmation of Tour, Issue of Tour Vouchers Reconfirmation with Airlines, Hotel & Ground Service Providers Distributing Customized Itinerary to Tour Leader, Tour Escort, Tour Guide, Transportation, Standard Procedures for Pickup and Drop Crisis Management in tour, Preparation of Feedback or Guest Comment Sheet.
April- 2023	Unit- V	Travel Documentation: Familiarization with TIM (Travel Information Manual) Passport & VISA-Meaning, Types, Procedures, Validity Necessary Information to fill the Passport and VISA Form for Issuance Health Certificates, Currency, Travel Insurance Types of payment methods: credit card, debit card, UPI, e-wallet, net-banking, mobile banking etc.

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#### Annual Academic Plan 2022-2023

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

Month	Paper-I Introduction to political science			
Oct -2022	Unit-I	Definition, Nature, Scope and Importance of political science – Relation with allied disciplines. Approaches to the study of political science: Traditional Approaches – philosophical, Historic modern Approaches Behavioral and system approach.		
Nov -2022	Unit-II	Definition of the state, Elements of the state, Theories of Origin of the state.  Concept of modern state and welfare state.		
Dec-2022	Unit-III	Law, Liberty, Equality-Power, Authority and Legitimacy		
Jan-2023	Unit-IV	Meaning, Nature and Classification of Rights-Theories of Rights.		
Feb -2023	Unit- V	Political Ideologies 1.Liberalism, Individualism, Anarchism.2.Socialism, Marxism and Multiculturalism.		

#### Annual Academic Plan 2022-2023

### Department of Political Science II B.A Semester-III

Month		Paper-III INDIAN GOVERNMENT AND POLITICS
Oct -2022	Unit-I	Social and Ideological base of the Indian Constitution - Constitutional  Development in India during British rule, Constituent Assembly.
Nov-2022	Unit-II	Individual and StateFundamental rights, Directive Principles of State policy and fundamental duties. The Doctrine of Basic Structure of the Constitution.
Dec-2022	Unit-III	Union Executive - President of India – Mode of Election, Powers and Functions. Parliament composition, Powers and functions, Legislative committees, Prime Minister and council of Ministers- Powers and functions, role in coalition politics.
Jan-2023	Unit-IV	State Executive – Governor – Mode of Appointment, Powers and functions.  Legislature – Composition, Powers and functions, Chief Minister and Council of Ministers powers and functions.
Feb-2023	Unit- V	The Indian Judiciary. – Supreme Court-Composition and Appointments, Powers and functions or Jurisdiction of the supreme court, Judicial Review, Judicial Activism. High Court – Composition, Powers and functions

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# Department of Political Science III B.A S

Month		Silver Science III B.A Semester-V Paper- VI
Dec-	Unit-I	Paper- VI B: E - GOVERNANCE
2022		Brief Introduction to Governance - E - Governance Meaning Definition
		Scope, Objectives and Significance – Domains of E- Governance –
Jan- 2023	Unit-11	Good Governance – Global trends in the growth of E- Governance.
		E- Governance in India – National E – Governance plan – National Information Centre- Strategies for E- Governance Implementation: Computing, Cloud
		Governance, Data system ,Human resources. Major E- Governance projects –
Feb -	Unit-III	Gyandoot, E- choupal, E- Bhoomi, E- Seva, CARD, E- Pnchayat.
2023	Oint-III	Role of ICT in Administration. E- Governance – Online filling of complaints, application registration, issuance of certificates, issuance of land records, online
		payments of fees dues etc.
Mar -	Unit-IV	E- Governance under Information technology Act – legal status for digital
2023		transactions – public private partnership and expansion of E – Governance.
April-	Unit- V	E- Governance- Transparency and Accountability at gross root level Issues and
2023		challenges. Digital divide, capacity building, cyber security in cyber crimes.

### Annual Academic Plan 2022-2023

# Department of Political Science III B.A Semester-V SEM Paper-VII B

Month		PAPER VII-B LOCAL ADMINISTRATION  Notice Thoughts of M.K. Gandhi,
Dec- 2022	Unit-I	Local Government – meaning, importance, Nature. Thoughts of M.K Gandhi, Jawaharlal Nehru and Dr. B.R.Ambedkhar. Important committees- Blwant Raj Mehta, Ashok Mehta and L.M Singhvi  Decentralization of powers from the state to local institutions 73 rd and 74 th
Jan- 2023	Unit-II	Constitutional Amendment.  Revenue raising avenues for local governments – Grants Role of local governments – Grants Role
Feb - 2023	Unit-III	Revenue raising avenues for local governments and developmental programmes.  governments in implementation of welfare and developmental programmes.  Challenges for local Administration, financial, administrative and political
Mar -2023	Unit-IV	Challenges for local Administration.  constraints – public relations in administration.  Preparation of Reports – Minutes and Documentation – Types of Reports.
April- 2023	Unit- V	Preparation of Reports



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

Month April-2023	Paper-II BASIC ORGANS OF THE GOVERNMENT				
	Unit-I	CONSTITUTION  Meaning, Definition, Origin and Evolution of Constitution-Classification of the Constitutions-Written and Unwritten; Rigid and Flexible.			
May-2023	Unit-II	ORGANS OF THE GOVERNMENT  1. Theory of Separation of Powers-B.D.Montesquieu.  2. Legislature-Unicameral and Bicameral-Power and Functions, Executive-Powers and Functions. Judiciary-Powers and Functions.			
June - 2023	Unit- III	FORMS OF GOVERNMENTS  1. Unitary and Federal forms of Governments-Merits and Demerits.  2. Parliamentary and Presidential forms of Governments- Merits and Demerits.			
July - 2023	Unit- IV	DEMOCRACY  1. Meaning, Definition, Significance, Theories and Principles of Democracy. 2. Types of Democracy: Direct and Indirect Democracy-Methods, Merits and Demerits-  Essential Conditions for Success of Democracy			
Aug- 2023	Unit- V	POLITICAL PARTIES, PRESSURE GROUPS AND PUBLIC  1. Meaning, Definition and Classification of Political Parties: National and Regional- Functions of Political Parties.  2. Pressure Groups (Interest Groups)- Meaning, Definition, Types, Functions and Significance of Public Opinion.			

#### Annual Academic Plan 2022-2023

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

Month	Paper-IV	/ INDIAN POLITICAL PROCESS
April 2023	Unit-I	FEDERAL PROCESSES:  1. Features of Indian Federal System- Centre-State Relations-Legislative, Administrative and Financial.
		Emerging Trends in Centre-State Relations-Restructuring Centre-State Relations-Recommendations of Sarkaria Commission, M.M.Punchi Commission.
May-	Unit-II	ELECTORAL PROCESSES:
2023		<ol> <li>The Election Commission of India, Powers and Functions.</li> <li>Issues of Electoral Reforms, Voting Behavior-Determinants and Problems of Defections.</li> </ol>
June -	Unit-III	GROSSROOT DEMOCRACY-DECENTRALISATION:
2023		<ol> <li>Panchayat Raj system-Local and Urban Governments-Structure, Powers and Functions.</li> <li>Democratic Decentralization-Rural Development and Poverty alleviation with reference to 73rd and 74th Constitutional Amendment Acts, Challenges and Prospects.</li> </ol>
July -	Unit-IV	SOCIAL DYNAMICS AND EMERGING CHALLENGES TO INDIAN POLITICAL SYSTEM:
2023		<ol> <li>Role of Caste, Religion, Language and Regionalism in India.</li> <li>Politics of Reservation, Criminalization of Politics and Internal threats to Security.</li> </ol>
Aug-	Unit- V	REGULATORY AND GOVERNANCE INSTITUTIONS:
2023		<ol> <li>NITI Ayog, Finance Commission, Comptroller and Auditor General of India.</li> <li>Central Vigilance Commission, Central Information Commission, Lokpal and Lokayukta</li> </ol>

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#### Department of Political Science II B.A Semester-IV Paper - V

Month	Paper	V WESTERN POLITICAL THOUGHT
April 2023	3 Unit-I	ANCIENT GREEK POLITICAL THOUGHT:  1. Plato-Rule of Philosopher Kings-Theory of Justice-Ideal State and Education  2. Aristotle-Theory of State-Classification of Governments-Citizenship, Slavery and Theory of Revolutions.
May-2023	Unit-II	MEDIEVAL AND MODERN POLITICAL THOUGHT:  1. St. Augustine-Theory of Two Cities.  2. Niccolo Machiavelli-State and Statecraft
June -2023	Unit-III	CONTRACTUAL POLITICAL THOUGHT:  1. Thomas Hobbes- Social Contract and Absolute Sovereignty.  2. John Locke- Human Nature, State of Nature, Social Contract, Natural Rights and Limited Government.  3. Jean Jacques Rousseau- Human Nature, State of Nature, Social Contract, General Will and Popular Sovereignty.
luly - 2023	Unit-IV	UTILITARIAN POLITICAL THOUGHT:  1. Jermy Bentham-Theory of Utility, Law and Reforms.  2. J.S.Mill-Theory of Liberty and Representative Government.
ug-2023	Unit- V	MARXIST POLITICAL THOUGHT:  1. Karl Marx-Dialectical Materialism, Theory of Surplus Value and Class Struggle.  2. Antonio Gramsci-Hegemony and Civil Society.

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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** 

2022-23
Minutes of Meeting
Proceeding of the Principal
Academic Calender
Teaching Plans

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