

ASD GOVERNMENT DEGREE COLLEGE FOR WOMEN (A)

KAKINADA

List of Additional Inputs, BoS Changes and Revision Topics (2022-23)

S.No	Semester	Title of the Paper	BoS Changes	Remarks	% change in BoS
1	I	Prachena Telugu Kavivvam	Parvathi kapatavatu samvadam	Change Topic but not text and poet	15%
2	IV – BA Spl. Telugu	Adhunika Kavitha Parichayam	Desa Charitalu	Additional Inputs	10%

Signature of the In-charge

A.S.D.GOV.T.DEGREE COLLEGE
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KAKINADA

V. N. D.

Principal
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AUTONOMOUS
KAKINADA

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

Department of English

List of Additional Inputs, BOS changes & Revision Topics
2022-2023

S.No	Semester	Paper Title	BOS Changes	Remarks	% change in BOS
1	I	English Praxis Course-I A Course in Communication and Soft Skill	Communication and process of communication	Additional Input To know verbal and non-verbal communication	10%
2	II	English Praxis Course-II-A Course in Reading & Writing Skills	The Road not Taken by Robert Frost	Additional Input The message of the poem is how to face challenges in life	10%
3	III	English Praxis Course- III-A Course in Conversational Skills	Speech by Martin Luther King .Jr. - I Have a Dream	Additional Input To Speak fluently in English	10%

Signatures:

1. Ms, P. Sanjotha

Chair Person

2. Ms.Y.Swarna Sri

Member

3. Prof.S.Prasanti sree

University Nominee

4. Mr. P.V. Krishna Rao

Subject Expert

5. Dr.M.Soma Raju

Subject Expert

6. S. Santhi Rajasri

Alumni

In-charge of
the Dept of English


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ASD Government Degree College for women (A), Kakinada

SYLLABUS

Department of Hindi - BOS-CHANGES 2022-2023

Name of the Department	Semester & Title of the Paper	Titles of Topics deleted	Topics added during BOS meeting 2022	Percentage of changes made in syllabus	Justification per each topic added
Hindi	I General Hindi		Unit-I हिन्दी साहित्य का इतिहास का परिचय	20%	Basic knowledge of history of Hindi literature.
Hindi	II General Hindi		Unit-II आत्म परिचय	20%	resume writing skills among students.
Hindi	III General Hindi		Unit-III संपर्क भाषा, विश्व भाषा के रूप में हिन्दी	20%	knowledge of functional Hindi among students.


Signature of Dep. Incharge


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Department of Sanskrit - SYLLABUS CHANGES IN BOS 2022-2023

Name of the Department	Semester & Title of the Paper	Titles of Topics deleted	Topics added during BOS meeting 2022	Percentage of changes made in syllabus	Justification per each topic added
<u>Sanskrit</u>	<u>I Sanskrit</u>	-	nill	-	-
<u>Sanskrit</u>	<u>II Sanskrit</u>	-	nill	-	-
<u>Sanskrit</u>	<u>III Sanskrit</u>	-	Unit-IV History of Sanskrit literature	20%	3 Eminent Scholors: Jagannatha pandita rayalu, Mallinatha Suri, Vishwanatha

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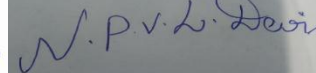
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Department of Commerce

List of Additional Inputs, BOS changes & Revision Topics (2022-2023)

S.No	Semester	Paper Title	BOS Changes	Remarks	% change in BOS
1	I	Fundamentals of Accounting	Green Accounting	Additional knowledge	5%
2	I	Business Organization and Management	Decision-making and Control	With regards to Functions of Management	7%
3	II	Business Environment	New Industrial Policy	Under Factors influencing Business Environment	4%
4	III	Advanced Accounting	Partnership Act 1932,	Additional knowledge	6%
5	IV	Corporate Accounting	Introduction to Accounting Standards	Additional knowledge	5%
6	IV	Marketing	Introduction to Digital Marketing	Additional knowledge	5%
7	V	Costing	Budgeting	Under methods of Costing	6%
8	V	Goods and Service Act	Latest changes in GST Act	Additional Input	5%
9	VI	Auditing	Practical Knowledge with CA firms	Additional knowledge	5%

R.R.D. Singh  A.V. Rao

K.N.D. Anilkumar  R. Venkateswara  N.P.V.L. Devi

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

Department of Economics

List of Additional Inputs and BOS changes 2022-2023

S. N	Sem	Paper Title	Course Code	Additional Inputs	Remarks	% change in the BOS
1	I	Micro Economic Analysis	ECO201102	Production Possibilities Curve: Allocation of Resources - Optimization, Equilibrium and Marginal analysis -Rationality Principle the concept of Welfare	To explain choice and alternative uses in detail	10%
2	II	Macroeconomic Analysis	ECO202102	Theories of Consumption: Relative, Life Cycle and Permanent Income Hypotheses	In addition to the keynes psychological theory of consumption	8%
3	III	Development Economics	ECO203102	Solow's Model and Robinson's Golden Age growth theories	Put this in Additional Inputs as the syllabus has become Heavy	8%
4	IV	Economic Development in India and Andhra Pradesh	ECO204103	Special Economic Zones in Andhra Pradesh East Godavari District , Public Finances in Andhra Pradesh	To add the local needs and perspectives to the students	15%



Head of the Department
Department of Economics

A.S.D.GOV.T.DEGREE COLLEGE FOR (W) (A), KAKINADA

DEPARTMENT OF HISTORY

List of Additional Inputs and BOS Changes

S.N O	Semeste r	Paper title	Additional input	Remarks	% chan ges in BOS
1	I	Ancient Indian History & culture	History definition nature and scope . Importance of History relations to the other social sciences	It is relevant to this topic	10%
2	II	Medieval Indian History & culture	Position of women in Muslim and Hindu society	It is relevant to this topic	10%
3	III	Modern Indian History	Social Religious movement	It is relevant to this topic	10%
4	IV-P4	History & culture of Andhra	Formation of separate Telangana	It is relevant to this topic	10%
5	IV-P5	History of modern world	Concept of Colonialism and mercantilism	It is relevant to this topic	10%
6	V-P6	Tourism and Hospitality services	Travel and Tourism and Entertainment and recreation	It is relevant to this topic	10%
7	V-P7	Tourism Guidance and Operating skills	Basic sector of Employment	It is relevant to this topic	10%

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Sec in charge,
Dept. of History

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DEPARTMENT OF POLITICAL SCIENCE

List of Additional Inputs and BOS Changes 2022 - 23

S.NO	Semester	Paper title	Additional input	Remarks	% changes in BOS
1	I	Introduction to Political science	Divine Origin ,Force theory and Evolution theory	It is relevant to this topic	10 %
2	II	Basic Organs of the Government	Fundamental Rights and duties	It is very important	10%
3	III	Indian Government and Politics	Election Commission	It is relevant to this topic	10%
4	IV-P4	Indian Political Process	Women Reservation in Indian politics	It is relevant to this topic	10%
5	IV-P5	Western Political thought	NIL	NIL	NIL
6	V-P6	E - Governance	Electronic voting machines	It is relevant to this topic	10%
7	V-P7	Local Administration	12 th schedule	It is very important	10%

*or V.V.
Dec in-charge
Dept. of Political Science.*

V.V.

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

Department of Computer Science

List of Additional Inputs, BOS changes & Revision Topics

S.No	Semester	Paper Title	BOS Changes	Remarks	% change in BOS
1	I B.Sc(MPCS)	Paper 1: Problem Solving in C	<ul style="list-style-type: none">Differences between Structures and Union	The concept is used for PG Entrance Exams and Interviews	5%
2	II B.Sc(MPCS)	Paper 2: Data Structures using C	<ul style="list-style-type: none">Quicksort	Necessary sorting and searching techniques are added in syllabus	5%
3	IV B.Sc(MPCS)	Paper 4: Object Oriented Programming through Java	<ul style="list-style-type: none">Using jdbc-odbc Bridge Driver to Connect to Oracle Database, Retrieving Data from MySQL Database, Retrieving Data from MS Access Database	Already unit IV and V contains vast Syllabus Proposed by subject expert	10%
4	IV B.Sc(MPCS)	Paper 5: Operating Systems	<ul style="list-style-type: none">Disk Scheduling AlgorithmsFCFS,SCAN,CSCAN algorithms	Concepts are needed for PG Entrance Exams and Interviews	10%

N.N.S. Eswari
Signature of the HOD

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DEPT. OF COMPUTER SCIENCE
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V. Anand
Signature of the Principal
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A.S.D GOVT.DEGREE COLLEGE FOR WOMEN (A), KAKINADA

Department of Computer Applications

List of Additional Inputs, BOS changes & Revision Topics

S.No	Semester	Paper Title	BOS Changes	Remarks	% change in BOS
1.	III B.Com(CA)	Paper 3:Programming with C and C++	<ul style="list-style-type: none">• Call by Value• Call by Reference	The base for this topic i.e pointers not in the syllabus	5%
2.	IV B.Com(CA)	Paper 4:Database Management Systems	<ul style="list-style-type: none">• Procedures, Functions, Packages	Suggested by subject expert	5%

N. N. S. Eswari
Signature of the HOD

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V. Ananta Reddy
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A.S.D. Govt. Degree College for Women (A), Kakinada

Department of HomeScience- BOS Meeting, Dt. 18-08-2022

Venue: Online through Zoom app on Dt: 18-08-2022, Thursday, 2:00PM

Meeting of Board of Studies in Home Science has been convened on 18-08-2022 through online by Zoom app at 2:00PM. The board consisting of chairperson Smt. M. Suvarchala, University Nominee Dr. G. Padmini Devi, Subject Expert Dr.Y.Lakshmi Prabha, Industry Expert Dr. M. Radha, Alumni Smt.S. Lalitha Nirmala, all the faculty members and student representative of Home Science Department .

Agenda for the Board of Studies meeting 2022-23

1. Revamping of Syllabus from Semester I to V.
2. Model Question Papers and Blue Print.
3. Panel of Question Paper setters and Examiners.
4. Pass minimum in Internal Assessment.
5. Change of evaluation pattern from 25 internal and 75external to 40 internal and 60 external for 2022-23 admitted batch
6. Certificate course on Beauty and wellness
7. Placement of students for internship in various Organizations
8. Conduct of Community Service/Extension Activities/ Projects as a part of Institutional social responsibility.
9. Any other proposal / item with the permission of the Chair.

Resolutions:

1. It is resolved to adopt the following frame work of course papers

- i. It is resolved to accept the proposed modifications in the syllabus (10-15%) of Semester I to IV. As per the instructions of APSCHE, **H.Sc 405: Resource management and Family Economics** is replaced in place of H.Sc 405: Interior Design and Decoration, which is shifted to V semester as it is skill enhanced course.
- ii. It is resolved to introduce APSCHE proposed V semester courses without any deviation.
- iii. It is resolved to approve the model question papers and blue print for all courses of Semester I to V.
- iv. It is resolved to approve the panel of question paper setters and examiners.
- v. It is resolved to change the evaluation pattern from 25 marks internal and 75marks external to 40 marks internal and 60 marks external from 2022-23 admitted batch as given below.

Mid I	Mid II	Mid I reduced to	Mid II reduced to	Total	Assignment	Seminar	Clean & Green	Total	Total reduced to
30M	30M	20M	15M	35M	5M	5M	5M	50M	40M

- vi. It is resolved to approve the proposal for starting Beauty and Wellness certificate course from the Academic year 2022-23 in collaboration with skill sector council of India.
- vii. It is resolved to follow the syllabus and curriculum for the certificate course as proposed by skill sector council of India.
- viii. It is resolved to place the IV semester students for 2 months internship at Padala Charitable Trust, Kakinada/Local Hospitals/Sri City, Nellore.
- ix. It is resolved to place for 6 months internship at ICDS and local hospitals.
- x. It is resolved to place the students for internship in VI semester
- xi. It is resolved to approve the workload of Dept. of Home Science for the Academic year 2022-23.

xii. It is resolved to approve the Action plan of Dept. of Home Science for the Academic year 2022-23.

xiii. It is resolved to conduct Community Service Project for a period of 180 hours after II Semester.

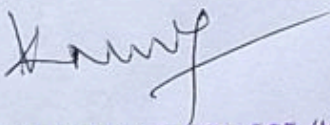
Members Present			Signatures
1.	Smt. M. Suvarchala	Chairman	M. Suvarchala.
2.	Dr. G. Padmini Devi	University Nominee	G. Padmini Department Of Home Science Taty. college for wo...
3.	Dr. Y. Lakshmi Prabha	Subject Expert	Lakshmi Prabha. Y
4.	Dr.M. Radha	Industry Exert	M. Radha.
5.	Dr. K. Lavanya	Member	K. Lavanya.
6.	Dr.G.Anitha	Member	G. Anitha.
7.	Ms.L.Malliswari	Member	L. Malliswari
8.	Ms.S. Lalitha Nirmala	Alumni	S. Lalitha Nirmala
9.	Kum.V. Mounji Roy	Student Representative	V. Mounji Roy.

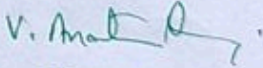
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Department Of Horticulture

List of Additional Inputs,BOS changes & Revision Topics (2022-2023)

S.No	Semester	Paper Title	BOS Changes	Remarks	% change In BOS
1	I	Paper I: Fundamentals Of Horticulture And Soil Science	Identification and Management of Nutritional disorders in important Fruit, Vegetable and Flower crops	Additional knowledge	4%
2	II	Paper II:Plant Propagation andNursery Management	Pest and Disease management in Nursery, Nursery Certification Procedure	Additional knowledge	5%
3	III	Paper III: Basics of Vegetable Science (Olericulture)	Nutritional aspects of Vegetable crops Major pests & Diseases of Vegetable crops and their management	Additional knowledge	4%
4	IV	Paper IV: Basics of Fruit Science (Pomology)	Methods of Irrigation of fruit crops Intercropping of fruit crops	Additional knowledge	5%
5	IV	Paper V:Pests and Diseases of Horticulture Plants and their Management	Disease symptoms of Nematodes & their management in Horticultural crops	Additional knowledge	5%
6	V	Paper 6A: Ornamental Horticulture	Since this course is newly introduced skill Enhancement course .No change has been made	Nil	0%
7	V	Paper 7A: Commercial Floriculture	Since this course is newly introduced skill Enhancement course .No change has been made	Nil	0%


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A.S.D GOVT DEGREE COLLEGE FOR WOMEN (A)
(Re-Accredited by NAAC with 'B')
KAKINADA 533002 EASTGODAVARI, ANDHRA PRADESH

DEPARTMENT OF BOTANY 2022-2023
List of Additional inputs ,Bos changes, Revision topics

S.No	Semester	Topics added	Remarks	% change in Bos
1	I	<ul style="list-style-type: none"> • Lytic and lysogenic cycle of T-even Bacteriophages • Fungi responsible for major famines in the world • Algae as Single cell Proteins (SCP) • Ecological and economic importance of Bryophytes / 	Additional Knowledge	20%
2	II	<ul style="list-style-type: none"> • Fossil Pteridophytes • Ecological and economic importance of Gymnosperms • Botanical gardens and their importance • Insectivorous plants 	Additional Knowledge	10%
3	III	<ul style="list-style-type: none"> • Deforestation and Afforestation • Biodiversity Hotspots of the world • Endemic and Endangered plants in A.P. 	Additional Knowledge	10%
4	IV-Paper-IV	<ul style="list-style-type: none"> • Antitranspirants and their significance in crop physiology and horticulture • Mycorrhizal association and mineral nutrition in plants • Role of Hydrogenase in Nitrogen Fixation 	Additional Knowledge	10%
5	IV- Paper- V	<ul style="list-style-type: none"> • Different forms of DNA • Modes of pollination in Plants 	Additional Knowledge	10%

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

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DEPARTMENT OF CHEMISTRY

2022-23

List of ADDITIONAL INPUTS, BOS changes & Revision Topics (2022-23)

SEMESTER - I: Inorganic & Physical Chemistry

S. No.	Unit No. & Name	Name of the topic added	No. of hours allotted	% of addition
1	Unit I: Chemistry of p – block elements	1. Structures of Higher Boranes B_4H_{10} and B_5H_9 . 2. Silanes 3. Comparison of properties between halogens and pseudo halogens	2	15%
2	Unit II: Chemistry of d – block and f – block elements Theories of bonding in metals	1. Color of transition metal compounds.	1	10%
3	Unit – III: Solid state	1. Crystalline structures of some ionic compounds viz., NaCl, KCl, CsCl etc.	1	10%
4	Unit – IV: Gaseous state and liquid state	1. Inversion temperature 2. Liquefaction of gases - principle	1	10%
5	Unit - V: Solutions, Ionic equilibrium and dilute solutions	1. Fractional distillation 2. Applications of common ion effect and solubility product in qualitative analysis	2	12%
TOTAL		9	7	11%

SEMESTER - II: Organic and General Chemistry

S. No.	Unit No. & Name	Name of the topic added	No. of hours allotted	% of addition
1	Unit:1: Carbon – Carbon sigma bonds (Alkanes and Cycloalkanes)	1. Relative stability of carbonium ions and free radicals 2. Newman projection formula	1	15%
2	Unit II: Carbon-Carbon pi bonds (Alkenes and Alkynes)	1.Stability of Alkenes	1	10%
3	Unit – III: Benzene and its Reactivity	1.Halogenation and Sulphonation of Benzene 2. Orbital picture of Benzene	2	10%
4	Unit – IV: Surface Chemistry and Chemical Bonding	1. M.O Diagrams of O_2^+ , O_2^- and NO^+	1	10%
5	Unit - V: Stereochemistry of Carbon Compounds	1. Geometrical Isomerism	1	12%
	TOTAL	7	6	10%

SEMESTER - III: Organic Chemistry and Spectroscopy

S. No.	Unit No. & Name	Name of the topic added	No. of hours allotted	% of addition
1	Unit: I: Chemistry of Halogenated Hydrocarbons Alcohols and Phenols	1. Classification and Nomenclature of Alkyl, Aryl and Aryl Alkyl Halides 2. Identification of Alcohols	2	15%
2	Unit II: Carbonyl Compounds	Active methylene Compounds Definition and Examples	1	10%
3	Unit - III: Carboxylic Acids and their Derivatives	-----		10%
4	Unit - IV: Spectroscopy	Hypochromic Shift, Hyperchromic Shift	1	10%
5	Unit - V: Applications of Spectroscopy	-----	0	12%
	TOTAL	4	4	4%

SEMESTER - IV (PAPER - IV) : Inorganic, Organic and Physical Chemistry

S. No.	Unit No. & Name	Name of the topic added	No. of hours allotted	% of addition
1	Unit: I: Organo Metallic Compounds	EAN	1	15%
2	Unit II: Carbohydrates	Differences between Glucose and Fructose	1	10%
3	Unit - III: Aminoacids and Proteins Heterocyclic Compounds	Comparison of Aromatic character of Furan, Thiophene and Pyrrole and Pyridine	1	10%
4	Unit - IV: Nitrogen Containing Compounds	-----	0	10%
5	Unit - V: Photochemistry and Thermodynamics	Photosynthesis, Resonance Fluorescence and delayed Fluorescence	1	12%
	TOTAL	9	4	4%

SEMESTER – IV (PAPER – V) INORGANIC AND PHYSICAL CHEMISTRY

S. No.	Unit No. & Name	Name of the topic added	No. of hours allotted	% of addition
1	Unit I: Coordination Chemistry	Sidzwick Interpretation of Coordination Compounds and EAN	1	10%
2	Unit II: Inorganic Reaction Mechanism Stability of Metal Complexes Bio-Inorganic Chemistry	----- Chlorophyll and its functions. Structures of Haemoglobin and Chlorophyll.	1	10%
3	Unit – III: Phase Rule	Phase Diagram of Mg-Zn System, Reduced phase rule and Condensed Systems	1	10%
4	Unit – IV: Electrochemistry	Arrhenius theory of weak electrolytes	1	10%
5	Unit - V: Chemical Kinetics	Graphical representations of Integrated rate equations of Zero and First Order Reactions	1	10%
	TOTAL	9	5	8%

SEMESTER – V/VI (D) ENVIRONMENTAL CHEMISTRY

S. No.	Unit No. & Name	Name of the topic added	No. of hours allotted	% of addition
1	Unit: I: Terminology in Environmental Chemistry	Water cycle and Climate change	1	15%
2	Unit II: Air Pollution	Ozone Depletion Substances, Responsibility of individual in protecting Ozone layer	1	10%
3	Unit – III: Water Pollution	Drinking Water Parameters-Indian Standards	1	10%
4	Unit – IV: Chemical Toxicology	Methods and Tools used in Chemical Toxicology	1	10%
5	Unit - V: Ecosystem and Biodiversity	Carbon inputs to Ecosystem	1	12%
	TOTAL	9	5	8%

SEMESTER – V/ VI GREEN CHEMISTRY AND NANOTECHNOLOGY

S. No.	Unit No. & Name	Name of the topic added	No. of hours allotted	% of addition
1	Unit: I: Green Chemistry Part - I	Wurtz Reaction	1	15%
2	Unit II: Green Chemistry Part - II	Tools and techniques in Solvent Selection	1	10%
3	Unit – III: Microwave and Ultrasound Assisted Green Synthesis	Recent Advances in Microwave and Ultrasound Assisted Green Synthesis	1	10%
4	Unit – IV: Green Catalysis and Green Synthesis	Applying Novel technology in Microwave Synthesis	1	10%
5	Unit - V: Nanotechnology in Green Chemistry	Advantages of Green Synthesis of Nanoparticles	1	12%
	TOTAL	9	5	8%

[Signature]
Incharge of Chemistry Department

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A.S.D. GOVERNMENT DEGREE COLLEGE FOR WOMEN (A)
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BOARD OF STUDIES IN MATHEMATICS
2022-23
ADDITIONAL INPUTS

SEMESTER – I Differential equations

S. No.	Unit No. & Name	Name of the topic added	No. of hours allotted	% of addition
1	Unit:II: Differential equation of first order but not of the first degree	Orthogonal Trajectories	5	10%
	TOTAL	1	5	10%

SEMESTER – II Solid geometry

S. No.	Unit No. & Name	Name of the topic added	No. of hours allotted	% of addition
1	Unit V: Cones	Right circular cylinder	3	5%
	TOTAL	1	3	5%

SEMESTER – III Abstract algebra

S. No.	Unit No. & Name	Name of the topic added	No. of hours allotted	% of addition
1	Unit:V: Rings	Ideal of ring and principal ideal ring	6	15%
	TOTAL	1	6	15%

SEMESTER – IV (PAPER – IV) Real Analysis

S. No.	Unit No. & Name	Name of the topic added	No. of hours allotted	% of addition
1	Unit:IV: Differentiation and mean value theorems	Meclaurins expansions of $\sin x$, $\cos x$ and e^x	2	5%
	TOTAL	1	2	5%



SEMESTER – V/VI (A) Numerical Methods

S. No.	Unit No. & Name	Name of the topic added	No. of hours allotted	% of addition
1	Unit:1: Finite differences and interpolation with equal intervals	Errors, types of errors	2	5%
2	Unit II: interpolation with equal and unequal intervals	Piece –wise interpolation :Spline interpolation introduction	3	10%
3	Unit – IV: Numerical Integration	Gaussian quadrature	2	5%
4	Unit – V: Numerical solution of ordinary differential equations	Predictor –corrector methods	3	5%
	TOTAL	4	10	15%



		SIGNATURES
1.K.Venkateswara Rao.,	Chairperson	<i>K Venkateswara Rao</i>
2.Dr.Ch.Srinivasulu,	University Nominee	<i>Ch Srinivasulu</i>
3.Dr.P.Subhashani,	Subject Expert	<i>P Subhashani</i>
4.Ms.Y.Padmaja,	Subject Expert	<i>Y Padmaja</i>
5.G.Sridevi,	Member	<i>G. Sridevi</i>
6.V.Geetha satyasri	Member	<i>V. G. S. Sri</i>
7. Padma	Alumns member	
7.E.Ooha	III B.Sc.(M.P.CS)	<i>E. O. V. V. S. Durga</i>
8.Kum.B.Manasa	II B.Sc.(M.P.CS)	<i>B. Manasa</i>



**A.S.D.GOV.T. DEGREE COLLEGE FOR WOMEN (AUTONOMOUS)
KAKINADA.**

DEPARTMENT OF PHYSICS

Additional inputs, BOS Changes and revision of topics

S.no	Semester	Paper	Paper title	BOS Changes	Remarks	Percentage change
1	I	Paper-1	Mechanics waves and oscillations	Peccession Of Atom And Nucleus In Magnetic Fields. Energy Of Simple Harmonic Oscillator	Additional inputs/ knowledge	8%
2	II	Paper-2	Wave optics	Calculation Of Amplitude Due To N Number Of Oscillators	Additional inputs/ knowledge	4%
3	III	Paper-3	Thermodynamics	Joule Kelvin Coefficients For Van Der Wall's Gases	Additional inputs/ knowledge	2%
4	IV	Paper-4	Electricity magnetism and electronics	Potential Due To Dipole, Divergence And Curl Of Magnetic Field Electromagnetic Damping Hybrid Parameters.	Additional inputs/ knowledge	12%
	IV	Paper-5	Modern physics	One Dimensional Harmonic Oscillator 3 Dimen,Box Tunnelingeffect.	Additional inputs/ knowledge	6%
5	V	Paper-6B	Low temperature physics	Superconducting Magnets In NMR	Additional inputs/ knowledge	4%
6	V	Paper-7B	Solar energy	Types Of Crystalline Solar Cells And Their Efficiency	Additional inputs/ knowledge	5%

Devath B
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Department of Aquaculture Technology

List of Additional Inputs, BOS changes & Revision Topics (2022-2023)

S.No	Semester	Paper Title	BOS Changes	Remarks	% change in BOS
1	I	Paper I : Basic principles of Aquaculture	1. Status of aquaculture in Andhra Pradesh 2. Importance of Aquaculture 3. Awareness on entrepreneurship and employment opportunities in aquaculture sector	Additional knowledge	4%
2	II	Paper II : Biology of fin fish & shell fish	1. Migration in fishes 2. Reproduction in fishes.	Additional knowledge	3%
3	III	Paper III: Fish nutrition & feed technology	Nutritional values of different prawn feed ingredients	Additional knowledge	3%
4	IV	Paper IV: fresh water & brackish water aquaculture	Minerals & supplements in Litopenaeus Vannamei culture	Additional knowledge	4%
5	V	Paper -6A: Soil and Water Quality Management	Classification of Aquatic weed plants	Additional knowledge	3%
6	V	Paper -7 A Ornamental Fish Culture	1. Aquatic weeds 2. Marine Plankton, 3. Seaweed products.	Additional knowledge	3%


Signature of the Lecturer in Charge
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Department of Zoology

List of Additional Inputs, BOS changes & Revision Topics (2022-2023)

S.No	Semester	Paper Title	BOS Changes	Remarks	% change in BOS
1	I	Paper I : Animal diversity – Biology of Non-Chordates	<ol style="list-style-type: none"> 1. Branches of Biology 2. Scope of Zoology 3. Common Parasitic Protozoans 4. Systematic Position of Porifera 5. <i>Wuchereria bancrofti</i>, 6. <i>Enterobius vermicularis</i> 7. Organic Farming 8. Beneficial Insects 	Additional knowledge	7%
2	II	Paper II : Animal diversity – Biology of Chordates	<ol style="list-style-type: none"> 1. Aortic arches, Vena Cavae, 2. Cranial Nerves in <i>Scoliodon</i> 3. Snake bite and first aid 4. Types of feathers 5. Discontinuous distribution in Mammals 	Additional knowledge	5%
3	III	Paper III: Cell biology, Genetics, Molecular biology & Evolution	<ol style="list-style-type: none"> 1. Role of Mendel's laws in the production of Hybrids, 2. Bombay Blood Group. 3. Structure and types of DNA 	Additional knowledge	4%

			4. Origin of Earth		
4	IV	Paper IV: Animal Physiology, Cellular metabolism & Embryology	1. Classification of animals based on Feeding habits and Excretory Products. 2. Structure and types of Neurons	Additional knowledge	3%
5	IV	Paper V: Immunology and Animal biotechnology	Auto immune disorders and immune deficiency disorders	Additional knowledge	3%

M. Subbarao

Signature of lecturer in-charge

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Department of Microbiology

List of Additional Inputs & BOS changes

S.No	Semester	Paper Title	Additional Input	Remarks	% change in BOS
1	2	Paper 2: Microbial Physiology & Biochemistry	Proteins structural levels of organization	It is very important fundamental topic	10%
2	4	Paper 5: Microbial Ecology And Industrial Microbiology	1. Determination of quality of different water samples in Kakinada town by MPN method 2. IPR	As a project work for practical exposure As curriculum demands	10%
S.No	Semester	Paper Title	BOS Changes	Remarks	
1	1	Paper 1: Introductory to Microbiology & Microbial Diversity	Added contribution of Paul Ehrlich, Alexander Flemming for Microbiology	As their discoveries are very important	10%
2	4	Paper 4: Immunology & Medical Microbiology	Removed and placed as an additional input :MHC Molecules 2.COVID 19	Already unit II has huge topics Proposed by subject expert	
3	4	Paper 5: Microbial ecology & Industrial Microbiology	Microbes in Food removed	Irrelevant to that paper & again it is in 5 th semester A1 paper	10%

Annunoy
D. Nayana
26/8/21