

V.S.M. COLLEGE (AUTONOMOUS)

RAMACHANDRAPURAM

NAAC Re-accredited with 'B' Grade at 2.69 CGPA

(Affiliated to Adikavi Nannaya University, Rajamahendravaram)



BSC AZC

COURSE STRUCTURE

(W.e.f. admitted batch 2020 –2021)

V.S.M. COLLEGE (AUTONOMOUS)
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RAMACHANDRAPURAM

B.Sc. PROGRAMME - COURSE STRUCTURE IN CHEMISTRY
UNDER CBCS 2020 – 21

Semester number	Paper & Title of the paper	Paper code	Instruction hours/week	No. of Credits	Duration of the examination (hours)	Assessment		Total Marks
						(CIA) Internal	(SEE) External	
I	Paper - I: Inorganic and physical Chemistry	2012301	4	4	3	40	60	100
I	Practical - I: Analysis of Salt Mixture lab	2012301P	2	1	3	-	50	50
II	Paper - II: Organic and General Chemistry	2022302	4	4	3	40	60	100
II	Practical - II: Volumetric Analysis lab	2022302P	2	1	3	-	50	50

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UNDER CBCS 2020 – 21

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						(CIA) Internal	(SEE) External	
III	Paper - III: Inorganic and Organic Chemistry-2	1632303	4	3	3	25	75	100
III	Practical - III: Titrimetric analysis and Organic Functional Group Reactions lab	1632303P	2	2	3	-	50	50
IV	Paper - IV: Spectroscopy and Physical Chemistry	1642304	4	3	3	25	75	100
IV	Practical - IV: Physical Chemistry and IR Spectral Analysis lab	1642304P	2	2	3	-	50	50
V	Paper - V: Inorganic, Organic and Physical Chemistry-1	1652305	3	3	3	25	75	100
V	Practical - V: Organic Chemistry lab	1652305P	2	2	3	-	50	50
V	Paper - VI: Inorganic, Organic and Physical Chemistry-2	1652306	3	3	3	25	75	100
V	Practical - VI: Physical Chemistry lab	1652306P	2	2	3	-	50	50
VI	Paper - VII: Elective-A Analytical Methods in Chemistry	1662307	3	3	3	25	75	100
VI	Practical – VII A Analytical Methods in Chemistry lab	1662307P	2	2	3	-	50	50
VI	Paper - VII: Elective-B Environmental Chemistry	1662308	3	3	3	25	75	100
VI	Practical – VII B Water Analysis lab	1662308P	2	2	3	-	50	50

VI	Paper - VII: Elective-C Green Chemistry	1662309	3	3	3	25	75	100
VI	Practical – VII C Green Chemistry lab	1662309P	2	2	3	-	50	50
VI	Cluster-A A-1 Polymer Chemistry	1662310	3	3	3	25	75	100
VI	Practical – VIII A-1 Organic Preparations lab	1662310P	2	2	3	-	50	50
VI	Cluster-A A-2 Instrumental Methods of Analysis	1662311	3	3	3	25	75	100
VI	Practical – VIII A-2 Instrumental Methods of Analysis lab	1662311P	2	2	3	-	50	50
VI	Cluster-A A-3 Analysis of Drugs, Foods, Dairy Products & Bio-chemical Analysis	1662312	3	3	3	25	75	100
VI	Project	1662312P	2	2	3	-	50	50
VI	Cluster-B B-1 Fuel Chemistry and Batteries	1662313	3	3	3	25	75	100
VI	Practical – VIII B-1 Organic Preparations lab	1662313P	2	2	3	-	50	50
VI	Cluster-B B-2 Inorganic Materials of Industrial Importance	1662314	3	3	3	25	75	100
VI	Practical – VIII B-2 Instrumental Methods of Analysis lab	1662314P	2	2	3	-	50	50
VI	Cluster-B B-3 Analysis of Applied Industrial Products	1662315	3	3	3	25	75	100
VI	Project	1662315P	2	2	3	-	50	50
VI	Cluster-C C-1 Organic Spectroscopic Techniques	1662316	3	3	3	25	75	100
VI	Practical – VIII C-1 Organic Preparations lab	1662316P	2	2	3	-	50	50
VI	Cluster-C C-2 Advanced Organic Reactions	1662317	3	3	3	25	75	100
VI	Practical – VIII C-2 Instrumental Methods of Analysis lab	1662317P	2	2	3	-	50	50
VI	Cluster-C C-3 Pharmaceutical & Medicinal Chemistry	1662318	3	3	3	25	75	100
VI	Project	1662318P	2	2	3	-	50	50

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ZOOLOGY COURSE STRUCTURE 2020-2021

Semester	Paper	Title	Paper Code	Hrs	Credits	CIA	SEE	Total
First Year								
I	I	Animal Diversity-I Biology of Non-Chordates	2012601	4	4	40	60	100
		Animal Diversity-I Biology of Non-Chordates Practical-I	2012601-P	2	1	0	50	50
II	II	Animal Diversity-II Biology of Chordates	2012602	4	4	40	60	100
		Animal Diversity-I Biology of Chordates Practical-II	2012602-P	2	1	0	50	50
III	III	Cell Biology,Genetics ,Molecular Biology & Evolution	2032603	04	04	40	60	100
		Cell Biology,Genetics ,Molecular Biology & Evolution Lab	2032603 P	02	01	0	50	50
IV	IV	Animal Physiology,Cellular metabolism &Embryology	2042604	04	04	40	60	100
		Animal Physiology,Cellular metabolism &Embryology Lab	2042604 P	02	01	0	50	50
	V	Immunology and	2042605	04	04	40	60	100

		Animal BioTechnology						
		Immunology and Animal BioTechnology Lab	2042605 P	02	01	0	50	50

**ZOOLOGY COURSE STRUCTURE UNDER CBCS
III BSc BZC ZOOLOGY**

SEM ESTER	PAPER	PAPER CODE	TITLE OF THE PAPER	HOURS / WEEK	CREDITS	CI A	SEE	TOTAL 75+ 25	
V	V	1612605	Animal Biotechnology	03	03	25	75	100	
		1612605P	Animal Biotechnology Lab	02	02		50	50	
	VI	1612606	Animal Husbandry	03	03	25	75	100	
		1612606P	Animal Husbandry Lab	02	02		50	50	
*Any one Paper from A, B and C** Any one cluster from I, II and III	VII (A)*	1612607	Immunology	03	03	25	75	100	
		1612607P	Immunology Lab	02	02		50	50	
	VI (B)*	1612608	Cellular Metabolism and Molecular Biology	03	03	25	75	100	
		1612608P	Cellular Metabolism and Molecular Biology Lab	02	02		50	50	
	VII (C)*	1612609	Bioinformatics	03	03	25	75	100	
		1612609P	Bioinformatics Lab	02	02		50	50	
	Cluster VIII - A*	Cluster Electives –VIII-A : Medical Diagnostics							
		1612610	1. Clinical Biochemistry	03	03	25	75	100	
		1612610P	Clinical Biochemistry Lab	02	02		50	50	
		1612611	2. Haematology	03	03	25	75	100	
		1612611P	Haematology Lab	02	02		50	50	
		1612612	3. Haematology	03	03	25	75	100	
		1612612P	Haematology Project Work	02	02		50	50	
	Cluster VIII - B*	Cluster Electives –VIII-B : Aquaculture							
1612613		1. Principles of Aquaculture	03	03	25	75	100		
1612613P		Principles of Aquaculture Lab	02	02		50	50		
1612614		2. Aquaculture Management	03	03	25	75	100		
1612614P		Aquaculture Management Lab	02	02		50	50		
1612615		3. Postharvest Technology	03	03	25	75	100		
1612615P	Postharvest Technology Project	02	02		50	50			
Cluster VIII - C*	Cluster Electives – VIII-C : Sericulture								
	1612616	1. Gen. Sericulture, Mulberry cultivation and Management	03	03	25	75	100		
	1612616P	Gen. Sericulture, Mulberry Cultivation and Management Lab	02	02		50	50		
	1612617	2. Biology of Mulberry Silkworm and Silkworm rearing Technology	03	03	25	75	100		
	1612617P	Biology of Mulberry Silkworm and Silkworm rearing Technology Lab	02	02		50	50		
	1612618	3. Silk Technology, Silk Marketing and	03	03	25	75	100		

		Extension					
	1612618P	Silk Technology, Silk Marketing and Extension Lab	02	02		50	50

VSM COLLEGE (A), RAMACHANDRAPURAM

BSC AQUACULTURE TECHNOLOGY SEMESTER V & VI
CORE STRUCTURE 2020-2021

<i>Semester</i>	<i>Paper</i>	<i>Title</i>	<i>Paper Code</i>	<i>Hrs</i>	<i>Credits</i>	<i>CIA</i>	<i>SEE</i>	<i>Total</i>
<i>FirstYear</i>								
<i>I</i>	<i>I</i>	Basic principles of aquaculture	2012701	4	4	40	60	100
		Basic principles of aquaculture practical	2012701P	2	1	0	50	50
<i>II</i>	<i>II</i>	Biology of finfish and shell fish	2022702	4	4	40	60	100
		Biology of finfish and shell fish practical	2022702P	2	1	0	50	50
III	III	Fish nutrition and feed technology	1632703		3	25	75	100
		Fish nutrition and feed technology Practical	1632703 P		2	0	50	
IV	IV	Freshwater and brackish water aquaculture	1642704		3			
		Freshwater and brackish water aquaculture Practical	1642704 P		2	0	50	

S. n o	Year	Semester	Paper	Papertitle	Paper Code	Hrs	Credits	CIA	SEE	Marks
1.		V	V	Fish health management	1652705	4	3	25	75	100
				Practical	1652705P	2	2	0	50	50
			VI	Fisheries Extension, economics and marketing	1652706	4	3	25	75	100
				Practical	1652706P	2	2	0	50	50
			VII(A)	Ornamental fishery	1662707	3	3	25	75	100
				Practical	1662707P	2	2	0	50	50
			VII(B)	Fishery	166270	3	3	25	75	100

				Engineering	8				
				Practical	166 270 8P	2	2	0	50 50
2.		VI	VII I-I	cluster Elective1 Fish processing Technology					
			VII I-I	Fish processing technology -IA	166 270 9	3	3	25	75 100
				Practical VIII	166 270 9p	2	2	0	50 50
			I I	Fishery Microbiology and Fishery by- productsI-B	1662710	3	3	25	75 100
				Practical	166 271 0P	2	2	0	50 50
			III	Quality control in processin	1662711	3		25	75

		g plants						
		Practical VIII	166 271 1P	2	2	0	50	50
VII I-II		Cluster elective-II Coastal						

		aquaculture		Hrs				
I		Crustacean aqua culture II-A	1662712	3	3	25	75	100
		Practical VIII	1662712P	2	2	0	50	50
II		Marine fin fish II-C	1662713	3	3	25	75	100
		Practical-VIII	1662713P	2	2	0	50	50
II I		Molluscan and seaweed culture.II	1662714	3	3	25	75	100
		-B	1662714P	2	2	0	50	50

V.S. M COLLEGE (AUTONOMOUS)
RAMACHANDRAPURAM
 BCA/ BBA/ B.SC/ B.COM PROGRAMME
 COURSE STRUCTURE IN ENGLISH UNDER CBCS 2020 - 2021

I - YEAR DEGREE

SEM	Paper	Paper code	Title	Instruction Hrs/ Week	Credits	Exam Hours	Marks	TOTAL
							(Internal/ External)	
I	Paper-I	2010104	General English	4	3	3	40/60	100
II	Paper-II	2010202	General English	4	3	3	40/60	100

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B.SC/ B.COM/ BBA/BCA/ PROGRAMME
COURSE STRUCTURE IN ENGLISH UNDER CBCS 2020-2021

II - Year, III Semester

SEM	Paper	Paper code	Title	Instruction Hrs/ Week	Credits	Exam Hours	Marks	TOTAL
							(Internal/ External)	
3	Paper-III	1630104	General English	4	3	3	25/75	100

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RAMACHANDRAPURAM-E.G.Dist.

DEPARTMENT OF SANSKRIT

1 & 2 DEGREE (B.Sc., BBA.,BCA & B.Com.)

I,II&III Semesters

Part –I (ii) Second Language

SANSKRIT

BSc,BBA,BCA & BCOM PROGRAMME – COURSE STRUCTURE IN SANSKRIT UNDER
CBCS 2021-2022

SEM	MODULE	PAPER CODE	INSTRUCTION HOURS/WEEK	CREDITS	EXAM HOURS	INTERNAL & EXTERNAL MARKS		TOTAL
1	Module – 1 Poetry, Prose & Grammar Sanskrit – I	2010102	4	3	3	40	60	100
2	Module – 2 Poetry, Prose & Grammar Sanskrit – I	2020102	4	3	3	40	60	100
3	Module -3 Drama, Upanishad & Grammar Sanskrit – I	2030102	4	3	3	40	60	100

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CHAIRPERSON
BOARD OF STUDIES

VSM COLLEGE (AUTONOMOUS)

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Ramachandrapuram - 533255, East Godavari Dist. AP
Department of Telugu

B.Sc.,B.Com.,BBA, COURSE STRUCTURE 2020-21

Semester	Paper Code	Subject	Hours	Credits	Internal	External	Total
I	2010101	తెలుగు ప్రాచీన తెలుగు కవిత్వం సంధి, సమాసము , ఛందస్సు, అలంకారాలు	4	3	40	60	100


CHAIRPERSON
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Ramachandrapuram - 533255, East Godavari Dist. AP
Department of Telugu

B.Sc.,B.Com.,BBA, COURSE STRUCTURE 2020-21

Semester	Paper Code	Subject	Hours	Credits	Internal	External	Total
II	2020101	తెలుగు ఆధునిక తెలుగు సాహిత్యం	4	3	40	60	100

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Department of Telugu

B.Sc.,B.Com.,BBA, COURSE STRUCTURE 2020-21

Semester	Paper Code	Subject	Hours	Credits	Internal	External	Total
III	2030101	జనరల్ తెలుగు సృజనాత్మక రచన	4	3	40	60	100

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BBA/ B.SC/ B.COM PROGRAMME
COURSE STRUCTURE IN ENGLISH UNDER CBCS 2020-2021
II- YEAR DEGREE
Communication and Soft Skills

SEM	Paper	Paper Code	Subject	Instruction Hrs/ Week	Credits	Exam Hours	Marks	TOTAL
							(External)	
3	Paper-II	1630206	CSS-3	2	2	2	50	50
4	Paper-III	1640207	CSS-4	2	2	2	50	50

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 COURSE STRUCTURE UNDER CBCS 2020-2021
BUSINESS COMMUNICATION (BC)
SEMESTER-II

SEM	Paper	Paper Code	Subject	Instruction Hrs/ Week	Credits	Exam Hours	Marks	TOTAL
							(External)	
II		2020302	BC	2	2	2	50	50



**VSM COLLEGE(A) :: RAMACHANDRAPURAM
BOARD OF STUDIES MEETING 2020-21
DEPARTMENT OF COMPUTER SCIENCE**

COURSE STRUCTURE

S.No	Life Skill Course	Paper No	Paper Code	Sem	Hrs/Week	Total Hrs	Credits	Marks
1	Basic Computer Applications	LS-1	2010201	I	2	30	2	50
2	Information and Communication Technology	LS-4	2020201	II	2	30	2	50



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DEPARTMENT OF BOTANY

SKILL DEVELOPMENT COURSE STRUCTURE

(All Degree(UG) Programmes)

Semester	Subject	Paper Code	Hrs.	Credits	CIA	SEE	Total
FIRST YEAR							
I	Plant Nursery	2010304	2	2	--	50	50
II	Fruit And Vegetable Preservation	2020306	2	2	-	50	50



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DEPARTMENT OF ZOOLOGY

SKILL DEVELOPMENT COURSE STRUCTURE
(All Degree(UG) Programmes)

<i>Semester</i>	<i>Subject</i>	<i>Paper Code</i>	<i>Hrs.</i>	<i>Credits</i>	<i>CIA</i>	<i>SEE</i>	<i>Total</i>
<u>First Year</u>							
<i>III</i>	POULTRY FARMING	2030304	2	2	--	50	50

DAIRY FARMINGskill Development course

Objectives:

- 1.To develop skilled technical and managerial manpower in Dairy Technology for the Industry, and Research and Development institutions.
- 2 To develop trained manpower with entrepreneurial skill required to establish, manage and direct small and medium dairy processing enterprise in line with the institutions priority to follow 'Technology for Self Reliance' and "Creation of Rural Employment".
- 3.To train graduates with adequate knowledge of design and fabrication of dairy processing equipments aimed at mechanizing traditional technology.
- 4 To develop graduates with potential for higher education .



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DEPARTMENT OF ZOOLOGY

SKILL DEVELOPMENT COURSE
STRUCTURE

(All Degree(UG) Programmes)

<i>Semester</i>	<i>Subject</i>	<i>Paper Code</i>	<i>Hrs.</i>	<i>Credits</i>	<i>CIA</i>	<i>SEE</i>	<i>Total</i>
<u>First</u> <u>Year</u>							
<i>I</i>	<i>Dairy Technology</i>	<i>2020307</i>	<i>2</i>	<i>2</i>	<i>--</i>	<i>50</i>	<i>50</i>