

V.S.M. COLLEGE (AUTONOMOUS)

RAMACHANDRAPURAM

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

(Affiliated to Adikavi Nannaya University, Rajamahendravaram)



BSC MPC S

COURSE STRUCTURE

(W.e.f. admitted batch 2020 –2021)



V. S. M. COLLEGE (A):: RAMACHANDRAPURAM
NAAC Re-accredited with 'B' Grade at 2.69 CGPA
DEPARTMENT OF MATHEMATICS&STATISTICS

B.Sc. MATHEMATICS COURSE STRUCTURE

Semester	Paper	Title	Paper Code	Hrs	Credits	CIA	SEE	Total
First Year								
I	I	Differential Equations	2012101	6	5	40	60	100
II	II	Solid Geometry	2022102	6	5	40	60	100

B.Sc. STATISTICS COURSE STRUCTURE

Semester	Paper	Title	Paper Code	Hrs	Credits	CIA	SEE	Total
First Year								
I	I	Descriptive Statistics	2012801	4	4	40	60	100
I	I	Descriptive Statistics-LAB	2012801P	2	1	-	50	50
II	II	Probability Theory & Distributions	2022802	4	4	40	60	100
II	II	Probability Theory & Distributions-LAB	2022802P	2	1	-	50	50

BCA MATHEMATICS & STATISTICS COURSE STRUCTURE

Semester	Paper	Title	Paper Code	Hrs	Credits	CIA	SEE	Total
First Year								
I	I	Numerical & Statistical Methods	2015101	4	4	40	60	100
I	I	Numerical & Statistical Methods Lab	2015101P	2	1	0	50	50



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DEPARTMENT OF MATHEMATICS

B.Sc. Mathematics COURSE STRUCTURE

Semester	Paper	Title	Paper Code	Hrs. per week	Credits	CIA	SEE	Total	
Second Year									
III	III	Abstract Algebra	1632103	6	5	25	75	100	
IV	IV	Real Analysis	1642104	6	5	25	75	100	
Third Year									
V	V	Ring Theory & Vector calculus	1652105	5	5	25	75	100	
	VI	Linear Algebra	1652106	5	5	25	75	100	
VI	ELECTIVES :(any one)								
	VII	VII-(A)	Laplace Transforms	1662107	5	5	25	75	100
		VII-(B)	Numerical Analysis	1662108					
		VII-(C)	Number Theory	1662109					
		VII-(D)	Graph Theory	1662110					
	CLUSTER ELECTIVES								
	VIII A	1:	Integral Transforms	1662111	5	5	25	75	100
		2:	Special Functions	1662112	5	5	25	75	100
		3:	Project work	1662113	5	5	25	75	100
	VIII B	1:	Advanced Numerical Analysis	1662114	5	5	25	75	100
		2:	Special Functions	1662115	5	5	25	75	100
		3:	Project work	1662116	5	5	25	75	100
	VIII C	1:	Principles of Mechanics	1662117	5	5	25	75	100
		2:	Fluid Mechanics	1662118	5	5	25	75	100
		3:	Project work	1662119	5	5	25	75	100
	VIII D	1:	Applied Graph Theory	1662120	5	5	25	75	100
2:		Special Functions	1662121	5	5	25	75	100	
3:		Project work	1662122	5	5	25	75	100	

VSM COLLEGE(A):: RAMACHANDRAPURAM

BOARD OF STUDIES MEETING 2020-21

DEPARTMENT OF PHYSICS

COURSE STRUCTURE

Semester	Paper	Subject	Paper Code	Hrs	Credits	IA	ES	Total
FIRST YEAR								
I	I	Mechanics, Waves and Oscillations	2012201	4	4	40	60	100
		Mechanics, Waves and Oscillations lab	2012201P	2	1	0	50	50
II	II	Wave Optics	2022202	4	4	40	60	100
		Wave Optics lab	2022202P	2	1	0	50	50

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BOARD OF STUDIES MEETING 2020-21

DEPARTMENT OF PHYSICS

COURSE STRUCTURE

Semester	Paper	Subject	Paper Code	Hrs	Credits	IA	ES	Total
SECOND YEAR								
III	III	Wave optics	1632203	4	3	25	75	100
		Wave optics lab	1632203P	2	2	0	50	50
IV	IV	Thermo Dynamics And Radiation Physics	1642204	4	3	25	75	100
		Thermo Dynamics And Radiation Physics lab	1642204 P	2	2	0	50	50
THIRD YEAR								
V	V	Electricity, Magnetism & Electronics	1652205	3	3	25	75	100
		Electricity, Magnetism & Electronics Lab	1652205 P	2	2	0	50	50
V	VI	Modern Physics	1652206	3	3	25	75	100
		Modern Physics lab	1652206 P	2	2	0	50	50
VI	ELECTIVE VIIA	Analog and Digital Electronics	1662207	3	3	25	75	100
	ELECTIVE VIIA	Analog and Digital Electronics lab	1662207 P	2	2	0	50	50
		Introduction to Microprocessors and Microcontrollers	1662208	3	3	25	75	100
	CLUSTER VIIA ₁	Introduction to Microprocessors and Microcontrollers lab	1662208 P	2	2	0	50	50
	SEME CLUSTER	Computational Methods and Programming	1662209	3	3	25	75	100

STER -VI	VIIIA ₂	Computational Methods and Programming lab	1662209 P	2	2	0	50	50	
	CLUSTER VIIIA ₃	Electronic Instrumentation	1662210	3	3	25	75	100	
		Project	1662210 P	2	2	0	50	50	
	(OR)								
	ELECTIVE VII B	Materials Science	1662211	3	3	25	75	100	
		Materials Science lab	1662211 P	2	2	0	50	50	
	CLUSTER VIIIB ₁	Fundamentals of Nanoscience	1662212	3	3	25	75	100	
		Fundamentals of Nanoscience lab	1662212 P	2	2	0	50	50	
	CLUSTER VIIIB ₂	Synthesis and Characterization of Nanomaterials	1662213	3	3	25	75	100	
		Synthesis and Characterization of Nanomaterials lab	1662213 P	2	2	0	50	50	
CLUSTER VIIIB ₃	Applications of Nanomaterials and Devices	1662214	3	3	25	75	100		
	Project	1662214 P	2	2	0	50	50		
(OR)									
ELECTIVE VII C	Renewable Energy	1662215	3	3	25	75	100		
	Renewable Energy lab	1662215 P	2	2	0	50	50		
CLUSTER VIIC ₁	Solar Thermal and Photovoltaic Aspects	1662216	3	3	25	75	100		
	Solar Thermal and Photovoltaic Aspects	1662216 P	2	2	0	50	50		

SEME STER -VI		lab						
	CLUSTER VIIC ₂	Wind, Hydro and Ocean Energies	1662217	3	3	25	75	100
		Wind, Hydro and Ocean Energies lab	1662217 P	2	2	0	50	50
	CLUSTER VIIC ₃	Energy Storage Devices	1662218	3	3	25	75	100
Project		1662218 P	2	2	0	50	50	



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

Course Structure

Year	Semester	Paper Code	Subject	Hrs. per Week	Credits	IA	ES	Total
First Year	I	2012401	Problem Solving in C	4	3	40	60	100
	I	2012401P	Problem Solving in C Lab	2	2		50	50
	II	2022402	Data Structures using C	4	3	40	60	100
	II	2022402P	Data Structures using C Lab	2	2		50	50
SECOND YEAR	III	1632403	OBJECT ORIENTED PROGRAMMING USING JAVA	4	3	25	75	100
	III	1632403P	OBJECT ORIENTED PROGRAMMING USING JAVA LAB	2	2	0	50	50
	IV	1642404	DATA STRUCTURES	4	3	25	75	100
	IV	1642404P	DATA STRUCTURES USING JAVA LAB	2	2	0	50	50
THIRD YEAR	V	1652405	DATABASE MANAGEMENT SYSTEM	3	3	25	75	100
	V	1652405P	DATABASE MANAGEMENT SYSTEM LAB	2	2	0	50	50
	VI	1652406	SOFTWARE ENGINEERING	3	3	25	75	100
	VI	1652406P	PROJECT -1	2	2	0	50	50
			ELECTIVE-1					
	VII (A)	1662407	A. OPERATING SYSTEMS	3	3	25	75	100
	VII (A)	1662407P	OPERATING SYSTEMS LAB	2	2	0	50	50
	VII (B)	1662408	B.COMPUTER NETWORKS	3	3	25	75	100


THIRD YEAR	VII (B)	1662408P	COMPUTER NETWORKS LAB	2	2	0	50	50
	VII (C)	1662409	C.WEB TECHNOLOGIES	3	3	25	75	100
	VII (C)	1662409P	WEB TECHNOLOGIES LAB	2	2	0	50	50
			ELECTIVE-2 (CLUSTER A)					
	VIII(A1)	1662410	FOUNDATIONS OF DATA SCIENCE	3	3	25	75	100
	VIII(A1)	1662410P	FOUNDATIONS OF DATA SCIENCE LAB (THROUGH R)	2	2	0	50	50
	VIII(A2)	1662411	BIG DATA TECHNOLOGY	3	3	25	75	100
	VIII(A2)	1662411P	BIG DATA TECHNOLOGY LAB (HADOOP)	2	2	0	50	50
	VIII(A3)	1662412P	PROJECT-2	3	3	25	75	100
	VIII(A3)	1662412V	VIVA	2	2	0	50	50
			ELECTIVE-2 (CLUSTER B)					
	VIII(B1)	1662413	DISTRIBUTED SYSTEMS	3	3	25	75	100
	VIII(B1)	1662413P	DISTRIBUTED SYSTEMS LAB	2	2	0	50	50
	VI	VIII(B2)	1662414	CLOUD COMPUTING	3	3	25	75
VIII(B2)		1662414P	CLOUD COMPUTING LAB	2	2	0	50	50
VIII(B3)		1662415P	PROJECT-2	3	3	25	75	100
VIII(B3)		1662415V	VIVA	2	2	0	50	50
			ELECTIVE-2 (CLUSTER C)					
VIII(C1)		1662416	PHP & MYSQL,WORDPRESS	3	3	25	75	100
VIII(C1)		1662416P	PHP & MYSQL ,WORDPRESS LAB	3	2	0	50	50
VIII(C2)		1662417	ADVANCED JAVA SCRIPT :JQUERY,AJAX,ANGULAR JS & JSON	3	3	25	75	100
VIII(C2)		1662417P	ADVANCED JAVA SCRIPT LAB	3	2	0	50	50
VIII(C3)		1662418P	PROJECT-2	3	3	25	75	100
VIII(C3)		1662418V	VIVA	2	2	0	50	50

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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
BOARD OF STUDIES

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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
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

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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RAMACHANDRAPURAM
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

V.S.M. COLLEGE (AUTONOMOUS)

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


CHAIRPERSON
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V.S. M COLLEGE (AUTONOMOUS)
RAMACHANDRAPURAM
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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RAMACHANDRAPURAM
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</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>



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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