




Qamar Shajahaan Sultana M.Sc.,NET  
PRINCIPAL

e-mail id : ngkl.gdc@gmail.com  
website : <https://gdcts.cgg.gov.in/nagarkurnool.edu>

S. No	Programme Name	Programme Code	Academic Year	Year of the Introduction
1	B.Sc(MPC)-TM	441	2016-17	2008
2	B.Sc(BZC)-TM	445		
3	B.Com(Gen)-TM	401		
4	B.A(HEP)-TM	129		
5	B.Sc(MPC)-TM	441	2017-18	
6	B.Sc(BZC)-EM	445		
7	B.Sc(BZC)-TM	445		
8	B.A(HEP)-TM	129		
9	B.A(HPP)-TM	159		
10	B.Sc(MPC)-EM	441	2018-19	2018-19
11	B.Sc(MPC)-TM	441		
12	B.Sc(BZC)-TM	445		
13	B.Sc(BZC)-EM	445		2018-19
14	B.Com(Comp Appi)-EM	405		2018-19
15	B.Com(Gen)-TM	401		
16	B.Sc(MPCs)-EM	468		2018-19
17	B.A(HPP)-EM	156		2018-19
18	B.A(EPP)-TM	111		2018-19
19	B.A(HEP)-TM	129		
20	B.Sc(MPC)-EM	441	2019-20	
21	B.Sc(BMZ)-EM	341		2019-20
22	B.Sc(BZC)-TM	445		
23	B.Sc(BZC)-EM	445		
24	B.Com(Comp Appi)-EM	405		
25	B.Com(Gen)-TM	401		
26	B.Sc(MPCs)-EM	468		
27	B.A(HPP)-EM	156		
28	B.A(HPP)-TM	156		2019-20
29	B.A(EPP)-TM	111		
30	B.A(HEP)-EM	129	2019-20	
31	B.A(HEP)-TM	129		
32	B.Sc(MPC)-EM	441	2020-21	
33	B.Sc(MPCs)-EM	468		
34	B.Sc(BZC)-EM	445		
35	B.Sc(BZC)-TM	445		
36	B.Sc(BZCs)-EM	475		
37	B.Sc(DZC)-EM	909		2020-21
38	B.Sc(BMZ)-EM	341		

  
PRINCIPAL  
GOVT. DEGREE COLLEGE

Telangana State Council of Higher Education, Govt. of Telangana B.Sc., CBCS Common  
Core Syllabi for all Universities in Telangana  
**PROPOSED SCHEME FOR CHOICE BASED CREDIT SYSTEM IN**  
B.Sc., Chemistry from 2019-2020

**FIRST YEAR- SEMESTER I**

CODE	COURSE TITLE	COURSE TYPE	HPW	CREDITS
BS 101	Ability Enhancement Compulsory Course AECC-1	ES	2	2
BS 102	English	CC-1A	4	4
BS 103	Second language	CC-2A	4	4
BS 104	Optional I	DSC-1A	4T+3P=7	4+1=5
BS 105	Optional II	DSC-2A	4T+3P=7	4+1=5
BS 106	<b>Optional III- Chemistry - I</b>	DSC-3A	4T } 3P } = 7	4 } 1 } = 5
	Laboratory Course - I (Qualitative Analysis - Semi Micro Analysis of Mixtures)			
<b>Total Credits</b>			31	25

**FIRST YEAR- SEMESTER II**

BS 201	Ability Enhancement Compulsory Course AECC-2	BCS	2	2
BS 202	English	CC-1B	4	4
BS 203	Second language	CC-2B	4	4
BS 204	Optional I	DSC-1B	4T+3P=7	4+1=5
BS 205	Optional II	DSC-2B	4T+3P=7	4+1=5
BS 206	<b>Optional III- Chemistry - II</b>	DSC-3B	4T } 3P } = 7	4 } 1 } = 5
	Laboratory Course - II ( Quantitative Analysis - Titrations )			
<b>Total Credits</b>			31	25

**SECOND YEAR- SEMESTER III**

BS 301	i) Safety Rules in Chemistry Laboratory and Lab Reagents	SEC-1	2	2
	ii) Remedial methods for pollution, drinking water and Soil fertility	SEC-2	2	2
BS 302	English	CC-1C	3	3
BS 303	Second language	CC-2C	3	3
BS 304	Optional I	DSC-1C	4T+3P=7	4+1=5
BS 305	Optional II	DSC-2C	4T+3P=7	4+1=5
BS 306	<b>Optional III- Chemistry - III</b>	DSC-3C	4T } 3P } = 7	4 } 1 } = 5
	Laboratory Course - III (Synthesis of Organic compounds )			
<b>Total Credits</b>			31	25

**SECOND YEAR- SEMESTER IV**

BS 401	i) Materials and their Applications	SEC-3	2	2
	ii) Chemistry of Cosmetics and Food Processing	SEC-4	2	2
BS 402	English	CC-1D	3	3
BS 403	Second language	CC-2D	3	3
BS 404	Optional I	DSC-1D	4T+3P=7	4+1=5
BS 405	Optional II	DSC-2D	4T+3P=7	4+1=5
BS 406	<b>Optional III- Chemistry - IV</b>	DSC-3D	4T } 3P } = 7	4 } 1 } = 5
	Laboratory Course - IV (Qualitative Analysis of Organic Compounds)			
<b>Total Credits</b>			31	25

\* AECC: Ability Enhancement Compulsory Course, SEC: Skill Enhancement Course, DSC: Discipline Specific Course, GE: Generic Elective, ES: Environmental Science, BCS : Basic computer skills.

**COMMISSIONERATE OF COLLEGIATE EDUCATION  
TELANGANA STATE**

Proposed Curriculum of Dairy Science as  
(Vocational Subject at Under Graduation)

Palamuru University-UG syllabus

Dairy Science (2020-21)

Yr	Sem	Paper No.	Title of the Paper	Credits	No. of Lectures
I	I	DSC P1	Dairy Husbandry – I	4 +1	60
	II	DSC P2	Dairy Husbandry – II	4 +1	60
II	III	DSC P3	Dairy Cattle Nutrition	4 +1	60
	IV	DSC P4	Dairy Development & Cooperative Societies	4 +1	60
III	V	DSE-IA / DSE-IB	Technology of Dairy Products – I OR Dairy Chemistry	4+1	60
	VI	DSE-IIA / DSE-IIB	Technology of Dairy Products – II OR Dairy Microbiology	4+1	60

**Proposed Skill Enhancement Courses and Generic Elective**

Yr	Sem	Paper No.	Title of the Paper	Credits	No. of Lectures
II	III	SEC I	Artificial Insemination	2	30
		SEC II	Conservation of Green Fodder	2	30
	IV	SEC III	Concentrate Feeds & Agro industrial by-products in Animal Nutrition	2	30
		SEC IV	Special Milks	2	30
III	V	GE I	Entrepreneurship Development	2	30
	VI	Project/ OPT	Food Hygiene and Quality Testing	2	30



**PRINCIPAL  
GOVT. DEGREE COLLEGE  
(Sciences) NAGARKURNOOL  
Dist. Nagarkurnool-509-209, (T.S.)**

With Effect from the Academic Year 2019-2020

With Effect from the Academic Year 2019-2020

**Syllabus for Computer Science**

Proposed scheme for B.Sc. Programme under Choice Based Credit System

Code	Course Title	Course Type	HpW	Credits
<b>SEMESTER - I</b>				
BS106	Programming In C	DSC-3A	4T+3P=7	4 + 1 =5
<b>SEMESTER - II</b>				
BS206	Programming in C++	DSC-3B	4T+3P=7	4 + 1 =5
<b>AECC</b>				
BS107	Fundamentals of Computers	AECC	2T	2
<b>SEMESTER -III</b>				
BS301	Python - 1	SEC-1	2T	2
BS302	Operating Systems - 1	SEC-2	2T	2
BS306	Data Structures using C++	DSC-3C	4T+3P=7	4 + 1 =5
<b>SEMESTER -IV</b>				
BS401	Python - 2	SEC-3	2T	2
BS402	Operating Systems - 2	SEC-4	2T	2
BS406	Database Management Systems (DBMS)	DSC-3D	4T+3P=7	4 + 1 =5
<b>SEMESTER - V</b>				
BS501	Information Technologies	GE	4T	4
BS505	Programming in Java	DSE-3E	4T+3P=7	4 + 1 =5
<b>SEMESTER - VI</b>				
BS605	Web Technologies	DSE-3F	4T+3P=7	4 + 1 =5
<b>Project/Optional</b>				
BS601	PIIP with MySQL	P/O	3T+3P=6	3 + 1 =4
Total Number of Credits				48



**PRINCIPAL**  
**GOVT. DEGREE COLLEGE**  
**(Sciences) NAGARKURNOOL**  
 Dist. Nagarkurnool-509 209, (T.S.)

**Telangana State Council of Higher Education**  
**B.A/B.Sc. Mathematics Course Structure**

(Common Core Syllabus for All Universities in Telangana State with effect from 2019-20)

Year	Paper	Semester	Subject	Hours/ per week	Hours/per week		Credits
					Theory	Tutorials*	
1	DSC I	I	Differential & Integral Calculus	6	5	1	5
	DSC II	II	Differential Equations	6	5	1	5
2	DSC III	III	Real Analysis	6	5	1	5
	DSC IV	IV	Algebra	6	5	1	5
3	DSC V	V	Linear Algebra	6	5	1	5
	DSE VI	VI-A	Numerical Analysis	6	5	1	5
		VI-B	Integral Transforms	6	5	1	5
		VI-C	Analytical Solid Geometry	6	5	1	5
2	SEC-I	III	Theory of Equations	2	2	-	2
2	SEC-II	III	Logic & Sets	2	2	-	2
2	SEC-III	IV	Number Theory	2	2	-	2
2	SEC-IV	IV	Vector Calculus	2	2	-	2
3	Generic Elective	V-A*	1. Basic Mathematics or 2. Mathematics of Finance & Insurance	4	4	-	4
3	Project/Optional	VI*	Mathematical Modelling	4	4	-	4

\*Tutorials: Problems solving session for each 20 student's one batch.

\*The syllabus for 1. Generic Elective and 2. Optional in place of project is open to respective universities to frame the syllabus as per local convenience.



**PRINCIPAL**  
**GOVT. DEGREE COLLEGE**  
**(Sciences) NAGARKURNOOL**  
Dist. Nagarkurnool-509 209, (T.S.)

**B.Sc. PHYSICS SYLLABUS UNDER CBCS SCHEME  
SCHEME OF INSTRUCTION  
(Revised and effective from academic year 2019-2020)**

Semester	Paper [ Theory and Practical ]	Instructions Hrs/week	Marks	Credits
I	Paper - I : Mechanics & Oscillations	4	100	4
	Practicals - I : Mechanics & Oscillations	3	50	1
II	Paper - II: Thermal Physics	4	100	4
	Practicals - II : Thermal Physics	3	50	1
III	Paper - III : Electromagnetic Theory	4	100	4
	Practicals - III : Electromagnetic Theory	3	50	1
IV	Paper - IV : Waves & Optics	4	100	4
	Practicals - IV : Waves & Optics	3	50	1
V	Paper - V : A. Modern Physics B. Computational Physics	4	100	4
	Practicals - V: A. Modern Physics B. Computational Physics	3	50	1
	Paper - VI : A. Electronics B. Applied Optics	4	100	4
VI	Practicals VI: A. Electronics B. Applied Optics	3	50	1

Total credits: 30

**Skill Enhancement Courses**

1. Experimental methods and Errors analysis
2. Electrical circuits and Networking
3. Basic Instrumentation
4. Biomedical Instrumentation
5. Digital Electronics

*II year*

*I year*

**Generic Elective:**

1. Renewable Energy & Energy Harvesting

*I year*

*[Signature]*

Project work /Optional (Non) science)

**PRINCIPAL**  
**GOVT. DEGREE COLLEGE**  
**(Sciences) NAGARKURNOOL**  
Dist. Nagarkurnool-509 209, (T.S.)

**B.Sc. ZOOLOGY SYLLABUS UNDER CBCS 2019-20**  
**CURRICULUM FOR ZOOLOGY**  
**IN UNDER GRADUATE DEGREE PROGRAMME**  
**CBCS SYLLABUS SCHEDULE 2019-20**  
**PALAMURU UNIVERSITY**

Year	Semester	Paper		Title of the Paper	No. of Credits	Exam Hrs.	Max. Marks		
							I.A	End Exam	Total
I	I	Paper - I	Core-I Theory	Animal Diversity- Invertebrates	4	2	20	80	100
			Core-I Practical	Animal Diversity- Invertebrates	1	2	10	40	50
	II	Paper - II	Core-II Theory	Animal Diversity- Vertebrates	4	2	20	80	100
			Core-II Practical	Animal Diversity- Vertebrates	1	2	10	40	50
II	III	Paper - III	Core-III Theory	Animal Physiology and Animal Behaviour	4	2	20	80	100
			Core-III Practical	Animal Physiology and Animal Behaviour	1	2	10	40	50
			SEC-1	Sericulture / Apiculture	2	2	10	40	50
			SEC-2	Public Health and Hygiene/ Medical Diagnostics	2	2	10	40	50
	IV	Paper - IV	Core-IV Theory	Cell Biology, Genetics, and Developmental Biology	4	2	20	80	100
			Core-IV Practical	Cell Biology, Genetics, and Developmental Biology	1	2	10	40	50
			SEC-3	Poultry and Animal Husbandry/ Vermiculture/ Vector Biology	2	2	10	40	50
			SEC-4	Biomaterials from Animals sources / Aquaculture/ Aquarium Fish Keeping	2	2	10	40	50
III	V	Paper - V	DSE-I Theory	Physiological Chemistry and Endocrinology/ Laboratory Animals Maintenance and Applications / Immunology and Animal Biotechnology	4	2	20	80	100
			DSE-I Practical	Physiological Chemistry and Endocrinology/ Laboratory Animals Maintenance and Applications / Immunology and Animal Biotechnology	1	2	10	40	50
			GE - I Theory	Preventive Medicine / Integrated Pest Management	4	2	20	80	100
	VI	Paper - VI	DSE-II Theory	Fisheries / Limnology / Ecology, Zoogeography and Evolution	4	2	20	80	100
			DSE-II Practical	Fisheries / Limnology / Ecology, Zoogeography and Evolution	1	2	10	40	50
				Project / Tools and Techniques in Biology	4	2	20	80	100
					<b>46</b>	<b>36</b>	<b>260</b>	<b>1040</b>	<b>1300</b>

DSC – Discipline Specific Core; DSE – Discipline Specific Elective; SEC – Skill enhancement Course; GE- Generic Elective (Open streams)

\*Practical one credit equal to 3 hours of instruction

**PRINCIPAL**  
**GOVT. DEGREE COLLEGE**  
**(Sciences) NAGARKURNOOL**  
**Dist. Nagarkurnool-509 209, (T.S.)<sup>2</sup>**

TELANGANA STATE COUNCIL OF HIGHER EDUCATION  
 PROPOSED CBCS COMMON CORE SCHEME FOR B.SC. COURSE  
 OPTIONAL -I: BOTANY

CODE	PAPER TITLE	Course Type	HPW	Credits
<b>FIRST YEAR SEMESTER - I</b>				
BS 104	PAPER-I: Microbial Diversity and Lower Plants	DSC-1A	4T+2P=6	4+1=5
<b>FIRST YEAR SEMESTER - II</b>				
BS 204	PAPER-II: Gymnosperms, Taxonomy of Angiosperms and Ecology	DSC-1B	4T+2P=6	4+1=5
<b>SECOND YEAR SEMESTER - III</b>				
BS 301	SEC-1: Nursery and Gardening	SEC-1	2	2
BS 302	SEC-2: Biofertilizers and Organic Farming	SEC-2	2	2
BS 304	PAPER-III: Plant Anatomy and Embryology	DSC-1C	4T+2P=6	4+1=5
<b>SECOND YEAR SEMESTER - IV</b>				
BS 401	SEC-3: Greenhouse Technology	SEC-3	2	2
BS 402	SEC-4: Mushroom Culture Technology	SEC-4	2	2
BS 404	PAPER-IV: Cell Biology, Genetics & Plant Physiology	DSC-1D	4T+2P=6	4+1=5
<b>THIRD YEAR SEMESTER - V</b>				
BS 501	GE-1: Industrial Microbiology	GE-1	4T	4
BS 502	DSE -1A: Biodiversity & Conservation DSE -1B: Economic Botany DSE -1C: Seed Technology	DSE-1A DSE-1B DSE-1C	4+2	4+1
<b>THIRD YEAR SEMESTER - VI</b>				
BS 601	DSE-3: Project	PROJECT	4	4
BS 602	DSE -2A: Plant Molecular Biology DSE -2B: Tissue Culture and Biotechnology DSE -2C: Analytical Techniques in Plant Sciences	DSE-2A DSE-2B DSE-2C	4T+2P=6	4+1=5

AECC: Ability Enhancement Compulsory Course, SEC: Skill Enhancement Course, GE: Generic Elective, DSC: Discipline Specific Core, DSE: Discipline Specific Elective

**PRINCIPAL**  
**GOVT. DEGREE COLLEGE**  
**(Sciences) NAGARKURNOOL**  
 Dist. Nagarkurnool-509 209, (T.S.)

*S. Srinivas*  
*B. Srinivas*  
*M. Srinivas*  
*K. Srinivas*