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**Telangana State Council of Higher Education, Govt. of Telangana**  
**PROPOSED SCHEME FOR CHOICE BASED CREDIT SYSTEM IN B.Sc.**  
**MICROBIOLOGY (2016-17)**

<b>FIRST YEAR - SEMISTER-1</b>				
Code	Course Title	Course Type	HPW	Credits
BS101	Communication			
BS102	English			
BS103	Second Language			
BS104	<b>General Microbiology</b>	DSC-1A	4+2	5
BS105	Optional-II			
BS106	Optional-III			
<b>SEMISTER-2</b>				
BS201	Environmental studies			
BS202	English			
BS203	Second Language			
BS204	<b>General Microbiology-II</b>	DSC-1B	4+2	5
BS205	Optional-II			
BS206	Optional-III			
<b>SECOND YEAR-SEMISTER-3</b>				
BS301	A/B HAEMATOLOGY	SEC-1	2	2
BS302	English			
BS303	Second Language			
BS304	<b>Microbial Physiology and Enzymology</b>	DSC-1C	4+2	5
BS305	Optional-II			
BS306	Optional-III			
<b>SEMISTER-4</b>				
BS401	<b>C/D-FOOD ADULTERATION</b>	SEC-2	2	2
BS402	English			
BS403	Second Language			
BS404	<b>Microbial Genetics and Molecular biology</b>	DSC-1D	4+2	5
BS405	Optional-II			
BS406	Optional-III			
<b>THIRD YEAR-SEMISTER-5</b>				
BS501	<b>Mushroom cultivation</b>	SEC-3	2	2
BS502	<b>Microbiology and Human health</b>	GE-1	2	2
BS503	<b>APPLIED MICROBIOLOGY</b>	DSC-1E	3+2	4
BS504	Optional-II			
BS505	Optional-III			
BS506	<b>A-IMMUNOLOGY</b>	DSE-1E	3+2	4

*Applied - 5  
 Immunology - 6  
 Medical - 7  
 Industrial - 8*

	<b>B- PHARMACEUTICAL MICROBIOLOGY</b>			
BS507	Optional-II-A/B/C			
BS508	Optional-III-A/B/C			
<b>SEMISTER-6</b>				
BS601	<b>G/H HOSPITAL WAST MANAGEMENT</b>	SEC-4	2	2
BS602	<b>CONTAGIOUS DISEASES AND IMMUNISATION</b>	GE-2	2	2
BS603	<b>MEDICAL MICROBIOLOGY</b>	DSC-1F	3+2	4
BS604	Optional-II			
BS605	Optional-III			
BS606	<b>A-FOOD MICROBIOLOGY</b>	DSE-1F	3+2	4
	<b>B- INDUSTRIAL MICROBIOLOGY</b>			
	Optional-II-A/B/C			
	Optional-III-A/B/C			
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**B.Sc. BOTANY I&II Year, CBCS Syllabus**  
**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., BOTANY**

FIRST YEAR		SEMSTER-I		
CODE	COURSE TITTLE	COURSE TYPE	HPW	CREDITS
BS 101	Environmental studies	AECC-1	2	2
BS 102	English	CC-1A	5	5
BS 103	Second Language	CC-2A	5	5
BS 104	Optional-I Botany-I <b>Microbial Diversity of Lower Plants</b>	DSC-1A	4T+2P=6	4+1=5
BS 105	Optional-II	DSC-2A	4T+2P=6	4+1=5
BS 106	Optional-III	DSC-1A	4T+2P=6	4+1=5
<b>Total Credits</b>				<b>27</b>
SEMSTER-II				
CODE	COURSE TITTLE	COURSE TYPE	HPW	CREDITS
BS 201	Gender Sensitization	AECC-2	2	2
BS 202	English	CC-1B	5	5
BS 203	Second Language	CC-2B	5	5
BS 204	Optional-I Botany-II <b>Bryophytes, Pteridophytes, Gymnosperms and Palaeobotany</b>	DSC-1B	4T+2P=6	4+1=5
BS 205	Optional-II	DSC-2B	4T+2P=6	4+1=5
BS 206	Optional-III	DSC-3B	4T+2P=6	4+1=5
<b>Total Credits</b>				<b>27</b>
SECOND YEAR		SEMSTER-III		
BS 301	SEC-I: Biofertilizers	SEC-1	2	2
BS 302	English	CC-1C	5	5
BS 303	Second language	CC-2C	5	5
BS 304	Optional-I BOTANY-III <b>Taxonomy of Angiosperms and Medicinal Botany</b>	DSC-1C	4T+2P=6	4+1=5
BS 305	Optional-II	DSC-2C	4T+2P=6	4+1=5
BS 306	Optional-III	DSC-3C	4T+2P=6	4+1=5
<b>Total Credits</b>				<b>27</b>
SEMSTER-IV				
BS 401	SEC-II: Herbal Technology	SEC-2	2	2
BS 402	English	CC-1D	5	5
BS 403	Second language	CC-2D	5	5
BS 404	Optional- I BOTANY-IV <b>Plant Anatomy, Embryology and Palynology</b>	DSC-1D	4T+2P=6	4+1=5
BS 405	Optional II	DSC-2D	4T+2P=6	4+1=5
BS 406	Optional III	DSC-3D	4T+2P=6	4+1=5
<b>Total Credits</b>				<b>27</b>

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

**TELANGANA STATE COUNCIL OF HIGHER EDUCATION  
PROPOSED CBCS COMMON CORE SCHEME FOR B.S.C. COURSE  
OPTIONAL -1: 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-5E	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.

Telangana State Council of Higher Education, Govt. of Telangana B.Sc., CBCS Com  
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	CREDI
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=
BS 105	Optional II	DSC-2A	4T+3P=7	4+1=
BS 106	<b>Optional III- Chemistry - I</b>	DSC-3A	4T } 3P } = 7	4 } 1 }
	Laboratory Course - I (Qualitative Analysis - Semi Micro Analysis of Mixtures)			
<b>Total Credits</b>			31	25

**FIRST YEAR- SEMSTER 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=
BS 205	Optional II	DSC-2B	4T+3P=7	4+1=
BS 206	<b>Optional III- Chemistry - II</b>	DSC-3B	4T } 3P } = 7	4 } 1 }
	Laboratory Course - II (Quantitative Analysis - Titrations)			
<b>Total Credits</b>			31	25

**SECOND YEAR- SEMSTER 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=
BS 305	Optional II	DSC-2C	4T+3P=7	4+1=
BS 306	<b>Optional III- Chemistry - III</b>	DSC-3C	4T } 3P } = 7	4 } 1 }
	Laboratory Course - III (Synthesis of Organic compounds)			
<b>Total Credits</b>			31	25

**SECOND YEAR- SEMSTER 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=
BS 405	Optional II	DSC-2D	4T+3P=7	4+1=
BS 406	<b>Optional III- Chemistry - IV</b>	DSC-3D	4T } 3P } = 7	4 } 1 }
	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.