B.Sc.B.Ed COURSES

EDUCATION

SEM	CORE COURSE			CAPACITY DEVELOPMENT	PRACTICUM
I	**BSBAEDU05** **School and Classroom Management**				Physical Education Co-Curricular Activities (CCA) CCA1. Fine Arts CCA2. Performing Arts
II	**BSBAEDU04** **Teaching Approaches and Strategies**				Observation of 10 Teachers Lessons Co-Curricular Activities (CCA) CCA1. Fine Arts CCA2. Performing Arts
III	**BSBAEDU12** Action Research	**BSBAEDU14A** **Life Skills**			Micro-Teaching- 5 Lessons **Co-Curricular Activities (CCA)** CCA1. Fine Arts CCA2. Performing Arts Internship (Two Weeks)
IV	**BSBAEDU03** Learning Resources				Micro-Teaching- 5 Lessons and Integration Lessons (2 Lessons) Co-Curricular Activities (CCA) CCA1. Fine Arts CCA2. Performing Arts Internship (Two Weeks)
V	**BSBAEDU01**	**BSBAEDUM07&**	**BSBAEDUM**		Peer Teaching (5 Lessons

	Foundation of Education	**08** Methodology Cum Content of Teaching School Subject I Science (Physical Science/ Biological Science) Any One	**07& 08** Methodology Cum Content of Teaching School Subject II: Mathematics		each in school subjects I & II) Work Experience Health & Physical Education Internship (Four Weeks)
VI	**BSBAEDU09** Assessment and Evaluation	**BSBAEDUM07& 08** Methodology Cum Content of Teaching School Subject I: Science (Same school subject I offered in Sem V)	**BSBAEDUM 07 & 08** Methodology Cum Content of Teaching School Subject II: Mathematics		Practice Teaching (5 Lessons each in school subjects I & II) Co-Curricular Activities (Sports) Working with Community Health & Physical Education Internship (Four Weeks)
VII	**BSBAEDU02** **Learner and Learning**	**BSBAEDUM07 & 8** Methodology Cum Content of Teaching School Subject I: Science	**BSBAEDUM 07& 08** Methodology Cum Content of Teaching School Subject II:		Practice Teaching (5 Lessons each in school subjects I &II) Internship (Four Weeks)

		(Same school subject I offered in Sem V & Sem VI)	Mathematics)		
VIII		**BSBAEDUM07&08** Methodology Cum Content of Teaching School Subject I: Science (Same school subject I offered in Sem V & Sem VI)	**BSBAEDUM 07&08** Methodology Cum Content of Teaching School Subject II: Mathematics	Any Two i. Disaster Management ii. BSBAEDU CD02 Guidance and Counselling iii. Gender Issues in Education iv. Media Literacy v. Event Management vi. Population Education vii. Lifelong Education viii. Education for Human Rights and Peace ix. BSBAEDU11 Inclusive Education x. Life Skills	Practice Teaching (5 Lessons each in school subjects I & II) Internship (Four Weeks)

				xi. Inclusive Education	

BOTANY

SEMESTER	CORE COURSE	ELECTIVES
I	**BSEDBOT 101 -** Diversity and Classification of Plant Kingdom-I **BSEDBOT 101(Prac.) -** Diversity and classification of Plant kingdom-I **BSEDBOT 102** - Cell biology **BSEDBOT 102** (Prac.) - Cell Biology	
II	**BSEDBOT 201-** Diversity and Classification of Plant Kingdom-II **BSEDBOT 201(Prac) -** Diversity and classification of plant kingdom-II **BSEDBOT 202-** Principles of Biochemistry **BSEDBOT 202 (Prac) -** Principles of Biochemistry.	
III	**BSEDBOT 301-** Plant Physiology-I **BSEDBOT 301(Prac) -** Plant Physiology -I **BSEDBOT 302-** Plant Ecology –I **BSEDBOT 302 (Prac)-** Plant Ecology-I	
IV	**BSEDBOT 401-** Plant Physiology-II **BSEDBOT 401 (Prac) -** Plant Physiology-II **BSEDBOT 402-** Plant Ecology –II **BSEDBOT 402(Prac) -** Plant Ecology-II	

V	**BSEDBOT 501 -** Systematics of Angiosperms. **BSEDBOT503A -** Systematics of Angiosperms (Practical) **BSEDBOT 502-** Genetics & Plant Breeding **BSEDBOT 503B -** Genetics & Plant Breeding (Practical)	
VI	**BSEDBOT 601-** Plant Biochemistry & Molecular Biology **BSEDBOT 603A -** Plant Biochemistry & Molecular Biology (Practical) **BSEDBOT 602 -** Plant Biotechnology & Genetic Engineering **BSEDBOT 603B -** Plant Biotechnology & Genetic Engineering. (Practical)	
VII-	**BSEDBOT 701**- Plant Anatomy and Developmental Biology of Flowering Plants **BSEDBOT 703A**- Plant Anatomy and Developmental Biology of Flowering Plants. (Practical) **BSEDBOT 702**- Genetics, Plant Breeding and Statistical Methods **BSEDBOT 703 B** - Genetics, Plant Breeding and Statistical Methods. (Practical).	
VIII	**BSEDBOT 801**- Microbiology & Plant Pathology **BSEDBOT 803A-** Microbiology & Plant Pathology (Practical) **BSEDBOT 802-** Economic & Applied Botany **BSEDBOT 803B**- Economic & Applied Botany. (Practical)	

CHEMISTRY

SEMESTER	CORE COURSE	ELECTIVES
I	**(BSEDCHEM 101) -** Physical and Inorganic Chemistry **(BSEDCHEM 103)** Organic and Inorganic Chemistry **Practical**	
II	**(BSEDCHEM 102)-** Physical and Inorganic Chemistry **(BSEDCHEM 104) -** Organic and Inorganic Chemistry **Practical**	
III	**(BSEDCHEM 201)-** Physical and Inorganic Chemistry **(BSEDCHEM 203)-** Organic and Inorganic Chemistry **Pracrical**	
IV	**(BSEDCHEM 202** Physical and Inorganic Chemistry **(BSEDCHEM 204)-** Organic and Inorganic Chemistry **Practical**	
V	**(BSEDCHEM 311)-** Physical Chemistry. **(BSEDCHEM 321) -** Inorganic Chemistry **Practical**	
VI	**(BSEDCHEM 331)-** Organic Chemistry **(BSEDCHEM**	

	341)- Analytical Chemistry **Practical**	
VII-	**(BSEDCHEM312)**- Physical Chemistry **(BSEDCHEM** **322)-** Inorganic Chemistry **Practical**	
VIII	**(BSEDCHEM** **332)-** Organic Chemistry **(BSEDCHEM** **342)-** Analytical Chemistry **Practical**	

MATHEMATICS

SEMESTER	CORE COURSE	ELECTIVES
I	**BSEDMATHS-101:** Calculus of one variable **BSEDMATHS-102:** Analytical Geometry	
II	**BSEDMATHS-201**: Discrete Mathematical structures **BSEDMATHS-202:** Probability & Statistics	
III	**BSEDMATHS-301:** Numerical Methods **BSEDMATHS-302:** Calculus of Two variables	

	BSEDMATHS PRAC- Numerical methods	
IV	**BSEDMATHS-401:** Matrix Algebra **BSEDMATHS-402:** Differential Equations I **BSEDMATHS PRAC**- Matrix Algebra	
V	**MAT-501:** Analysis I **MAT-502:** Analysis II **MAT-503:** Algebra	
VI	**MAT-601:** Linear Algebra **MAT-602:** Metric Spaces **MAT-603:** Complex Analysis)	
VII-	**MAT-701:** Vector Calculus **MAT-702:** Number Theory **MAT-703:** Operations Research **I**	
VIII	**MAT-801:** Analysis III **MAT-802:** Differential Equations	

PHYSICS

SEMESTER	CORE COURSE	ELECTIVES
I	**BSEDPHY 101:** Mechanics and Properties of Matter **BSEDPHY 102:** ELECTRICITY **Practical**	
II	**BSEDPHY201**: WAVES AND ACOUSTICS **BSEDPHY202:** Optics **Practical**	
III	**BSEDPHY 301:** MECHANICS II **BSEDPHY 302:** ELECTRONICS **Practical**	
IV	**BSEDPHY 401:** Heat & Thermodynamics **BSEDPHY402:** Modern Physics **Practical**	
V	**BSEDPHY502:** Wave Mechanics **BSEDPHY 601:** Electromagnetic Theory **Practical (Section I & Section 2)**	
VI	**BSEDPHY 702:** Atomic and Molecular Physics **BSEDPHY 801:** Electromagnetic Theory II and Relativity **Practical (Section I & Section 2)**	
VII-	**BSEDPHY503:** Nuclear Physics **BSEDPHY501:** Electronics **Practical (Section I & Section 2)**	
VIII	**BSEDPHY701:** Solid State Devices and Instrumentation **BSEDPHY703:** Thermodynamics and Statistical Mechanics **Practical (Section I & Section 2)**	

ZOOLOGY

SEMESTER	CORE COURSE	ELECTIVES
I	**(BSEDZOO 101)-** Diversity of Lower Non-Chordates **(BSEDZOO 102)-** Cell Biology **Practical** (101 & 102)	
II	**BSEDZOO 201-** Diversity and Higher Non _ Chordates **BSEDZOO 202-** Genetics and Molecular Biology **Practical**.(201 & 202)	
III	**BSEDZOO301-** Diversity of Lower Chordates **BSEDZOO302-** Animal Physiology **Practical** (301 & 302)	
IV	**BSEDZOO 401-** Diversity og Higher Chordates **BSEDZOO 402-** Ecology & Animal Behaviour **Practical (401 & 402)**	
V	**BSEDZOO501 -** Comparative Anatomy of Vertebrates **BSEDZOO503 A** Practical **BSEDZOO 502-** Human Physiology and Biochemistry **BSEDZOO503 B** Practical	
VI	**BSEDZOO 601-** Applied Genetics & Evolution **BSEDZOO603 A** Practical **BSEDZOO602 –** Fundamentals of Biotechnology **BSEDZOO603 B** Practical	
VII-	**BSEDZOO701-** Developmental Biology **BSEDZOO703A-** Practical **BSEDZOO702-** Endocrinology **BSEDZOO 703 B** - Practical	
VIII	**BSEDZOO801-** Environmental Biology & Toxicology	

	BSEDZOO 803A- Practical **BSEDZOO802-** Animal Biotechnology Applications **BSEDZOO 803B**- Practical	