



**Dr. P. A. INAMDAR University**  
**AZAM CAMPUS, PUNE**  
(Established under Maharashtra Act No XXXVII of 2022)

## **RULES & SYLLABUS STRUCTURE**

**Four Years Degree Program in**  
**BACHELOR OF SCIENCE EDUCATION**  
**(B.Sc. B. Ed. Integrated Program)**  
[Framed under Revised Regulations 2015 NCTE]

**Choice Based Credit System (CBCS) and Grading System**

**Board of Studies in Education**  
**Faculty of Education**

**Table-I: Course of study for Semester I**

Course Code	Course	Credits	Marks			Clock Hours
			Internal	External	Total	
	Perspective in Education					
BSB23101	Childhood and Growing Up	04	30	70	100	64
	Total	04	30	70	100	64
	Compulsory Subject					
BSB23102	Physical and Inorganic Chemistry	02	15	35	50	32
BSB23103	Chemistry Practical	02	50	-	50	32
	Total	04	65	35	100	64
	Elective-I (ANY ONE)					
BSB23104	Plant life and Utilization - I, Plant morphology & anatomy	02	15	35	50	32
BSB23105	Botany Practical	02	50	-	50	32
BSB23106	Mechanics, properties of matter and Physics principle and application.	02	15	35	50	32
BSB23107	Physics Practical	02	50	-	50	32
	Total	04	65	35	100	64
	Elective-II (ANY ONE)					
BSB23108	Algebra and Calculus-I	02	15	35	50	32
BSB23109	Mathematics Practical	02	50		50	32
BSB23110	Animal diversity -I and Animal Ecology	02	15	35	50	32
BSB23111	Zoology Practical	02	50	-	50	32
	Total	04	65	35	100	64
	Enhancing Professional Capacity (EPC)					
BSB23112	Micro Teaching, Integration, and Simulation	02	50	-	50	32
BSB23113	Critical Understanding of ICT	01	25	-	25	16
BSB23114	Communication Skill	02	50	-	50	32
	Total	05	125	-	125	80
	Total	21	350	175	525	336

**Table-II: Course of study for Semester II**

Course Code	Course	Credits	Marks			Clock Hours
			Internal	External	Total	
	Perspective in Education					
BSB23201	Contemporary India and Education	04	30	70	100	64
	Total	04	30	70	100	64
	Compulsory Subject					
BSB23202	Organic and Analytical Chemistry	02	15	35	50	32
BSB23203	Chemistry Practical	02	50	-	50	32
	Total	04	65	35	100	64
	Elective-I (ANY ONE)					
BSB23204	Plant Life and Utilization –II, Principles of plant science	02	15	35	50	32
BSB23205	Botany Practical	02	50		50	32
BSB23206	Heat and Thermodynamic, Electricity and Magnetism	02	15	35	50	32
BSB23207	Physics Practical	02	50	-	50	32
	Total	04	65	35	100	64
	Elective-II (ANY ONE)					
BSB23208	Analytical Geometry and Calculus – II	02	15	35	50	32
BSB23209	Mathematics Practical	02	50	-	50	32
BSB23210	Animal diversity –II and cell biology	02	15	35	50	32
BSB23211	Zoology Practical	02	50	-	50	32
	Total	04	65	35	100	64
	Enhancing Professional Capacity (EPC)					
BSB23212	Co-Curricular and Social Service	01	25	-	25	16
BSB23213	Health and Yoga	01	25	-	25	16
	Total	02	50	-	50	32
	Total	18	275	175	450	288

**Table-III: Course of study for Semester III**

Course Code	Course	Credits	Marks			Clock Hours
			Internal	External	Total	
	Perspective in Education					
BSB23301	English	02	15	35	50	32
BSB23302	Teaching and Learning	04	30	70	100	64
	Total	06	45	105	150	96
	Compulsory Subject					
BSB23303	Physical and inorganic chemistry	02	15	35	50	32
BSB23304	Chemistry Practical	02	50	-	50	32
	Total	04	55	35	100	64
	Elective-I (ANY ONE)					
BSB23305	Taxonomy of angiosperms and plant physiology	02	15	35	50	32
BSB23306	Botany Practical	02	50	-	50	32
BSB23307	Mathematical methods in physics and electronics	02	15	35	50	32
BSB23308	Physics Practical	02	50	-	50	32
	Total	04	65	35	100	64
	Elective-II (ANY ONE)					
BSB23309	Calculus of several variables and numerical methods	02	15	35	50	32
BSB23310	Mathematics Practical	02	50	-	50	32
BSB23311	Animal Diversity III and applied zoology I	02	15	35	50	32
BSB23312	Zoology Practical	02	50	-	50	32
	Total	04	65	35	100	64
	Enhancing Professional Capacity (EPC)					
BSB23313	Preparation for Constructivist Classroom (Innovative Lessons)	02	50	-	50	32
BSB23314	Indian Knowledge System	02	50	-	50	32
	Total	04	100	-	100	64
	Total	22	230	210	550	352

**Table-IV: Course of study for Semester IV**

Course Code	Course	Credits	Marks			Clock Hours
			Internal	External	Total	
	Perspective in Education					
BSB23401	Assessment and Evaluation for Learning	04	30	70	100	64
BSB23402	Pedagogy of school subject (Science, Math)	04	30	70	100	64
	Total	08	60	140	200	128
	Compulsory Subject					
BSB23403	Organic and analytical Chemistry	02	15	35	50	32
BSB23404	Chemistry Practical	02	50		50	32
	Total	04	65	35	100	64
	Elective-I (ANY ONE)					
BSB23405	Plant anatomy, Embryology and biotechnology	02	15	35	50	32
BSB23406	Botany Practical	02	50	-	50	32
BSB23407	Oscillations, Waves, Sound and optics	02	15	35	50	32
BSB23408	Physics Practical	02	50		50	32
	Total	04	65	35	100	64
	Elective-II (ANY ONE)					
BSB23409	Linear Algebra and vector calculus	02	15	35	50	32
BSB23410	Mathematics Practical	02	50	-	50	32
BSB23411	Animal Diversity-IV and applied zoology II	02	15	35	50	32
BSB23412	Zoology Practical	02	50	-	50	32
	Total	04	65	35	100	64
	Enhancing Professional Capacity (EPC)					
BSB23413	Art and Drama in Education	02	50	-	50	32
BSB23414	Environmental Education -I	02	50	-	50	32
	Total	04	100	-	100	64
	Total	24	355	-	600	384

**Table-V: Course of study for Semester V**

Course Code	Course	Credits	Marks			Clock Hours
			Internal	External	Total	
Perspective in Education						
BSB23501	Knowledge and curriculum, Language across curriculum	04	30	70	100	64
BSB23502	Understanding of school subject (Science, Math)	04	30	70	100	64
	Total	08	60	140	200	128
Elective Subject (Any one)						
BSB23503 -01	Physical Chemistry	02	15	35	50	32
BSB23503 -02	Real analysis	02	15	35	50	32
BSB23503 -03	Pest management	02	15	35	50	32
BSB23503 -04	Botany	02	15	35	50	32
BSB23503 -05	Physics	02	15	35	50	32
	Total	02	15	35	50	32
Elective Subject (Any one)						
BSB23504 -01	Inorganic Chemistry	02	15	35	50	32
BSB23504 -02	Group theory	02	15	35	50	32
BSB23504 -03	Histology	02	15	35	50	32
BSB23504 -04	Botany	02	15	35	50	32
BSB23504 -05	Physics	02	15	35	50	32
	Total	02	15	35	50	32
Elective Subject (Any one)						
BSB23505 -01	Analytical Chemistry	02	15	35	50	32
BSB23505 -02	Ordinary differential equation	02	15	35	50	32
BSB23505 -03	Biological chemistry	02	15	35	50	32
BSB23505 -04	Botany	02	15	35	50	32
BSB23505 -05	Physics	02	15	35	50	32
	Total	02	15	35	50	32
Elective Subject (Any one)						
BSB23506 - 01	Chemistry Practical	02	15	35	50	32
BSB23506 - 02	Mathematics Practical	02	50		50	32
BSB23506 - 03	Zoology Practical	02	15	35	50	32

BSB23506 - 04	Botany Practical	02	15	35	50	32
BSB23506 - 05	Physics Practical	02	15	35	50	32
	<b>Total</b>	<b>02</b>	<b>15</b>	<b>35</b>	<b>50</b>	<b>32</b>
<b>Enhancing Professional Capacity (EPC)</b>						
BSB23507	Entrepreneurship	02	50	-	50	32
BSB23508	Practice lesson	02	50	-	50	32
<b>Value Added Course</b>						
BSB23509	Artificial Intelligence in Education	02	50	-	50	32
	<b>Total</b>	<b>06</b>	<b>150</b>		<b>150</b>	<b>96</b>
	<b>Total</b>	<b>22</b>	<b>270</b>	<b>280</b>	<b>550</b>	<b>352</b>

**Table – VI: Course of study for Semester VI**

Course Code	Course	Credits	Marks			Clock Hours
			Internal	External	Total	
Perspective in Education						
BSB23601	Gender, School and Society	04	30	70	100	64
	Total	04	30	70	100	64
Elective Subject (Any one)						
BSB23602 - 01	Organic Chemistry	02	15	35	50	32
BSB23602 - 02	Operations Research	02	15	35	50	32
BSB23602 - 03	Genetics	02	15	35	50	32
BSB23602 - 04	Botany	02	15	35	50	32
BSB23602 - 05	Physics	02	15	35	50	32
	Total	02	15	35	50	32
Elective Subject (Any one)						
BSB23603 - 01	Industrial Chemistry	02	15	35	50	32
BSB23603 - 02	Differential Geometry	02	15	35	50	32
BSB23603 - 03	Developmental biology	02	15	35	50	32
BSB23603 - 04	Botany	02	15	35	50	32
BSB23603 - 05	Physics	02	15	35	50	32
	Total	02	15	35	50	32
Elective Subject (Any one)						
BSB23604 - 01	Environmental Chemistry	02	15	35	50	32
BSB23604 - 02	Number theory	02	15	35	50	32
BSB23604 - 03	Parasitology	02	15	35	50	32
BSB23604 - 04	Botany	02	15	35	50	32
BSB23604 - 05	Physics	02	15	35	50	32
	Total	02	15	35	50	32
Elective Subject (Any one)						
BSB23605 - 01	Chemistry Practical	02	15	35	50	32
BSB23605 - 02	Mathematics Practical	02	50		50	32
BSB23605 - 03	Zoology Practical	02	15	35	50	32



BSB23605 - 04	Botany Practical	02	15	35	50	32
BSB23605 - 05	Physics Practical	02	15	35	50	32
	<b>Total</b>	<b>02</b>	<b>15</b>	<b>35</b>	<b>50</b>	<b>32</b>
<b>Enhancing Professional Capacity (EPC)</b>						
BSB23606	Action Research	02	50	-	50	32
BSB23607	Understanding Self	02	50	-	50	32
<b>Value Added Course</b>						
BSB23608	Environmental Education - II	02	50		50	32
	<b>Total</b>	<b>06</b>	<b>150</b>		<b>150</b>	<b>96</b>
	<b>Total</b>	<b>18</b>	<b>240</b>	<b>210</b>	<b>450</b>	<b>288</b>

**Table-VII: Course of study for Semester VII**

Course Code	Course	Credits	Marks			Clock Hours
			Internal	External	Total	
Perspective in Education						
BSB23701	Advance Pedagogy and Application of ICT	04	30	70	100	64
BSB23702	Inclusive Education	04	30	70	100	64
	Total	08	60	140	200	128
Elective Subject (Any one)						
BSB23703 - 1	Physical Chemistry II	02	15	35	50	32
BSB23703 - 02	Real analysis II	02	15	35	50	32
BSB23703 - 03	Medical and forensics Zoology	02	15	35	50	32
BSB23703 - 04	Botany	02	15	35	50	32
BSB23703 - 05	Physics	02	15	35	50	32
	Total	02	15	35	50	32
Elective Subject (Any one)						
BSB23704 -01	Inorganic Chemistry II	02	15	35	50	32
BSB23704 -02	Ring theory	02	15	35	50	32
BSB23704 -03	Animal Physiology	02	15	35	50	32
BSB23704 -04	Botany	02	15	35	50	32
BSB23704 -05	Physics	02	15	35	50	32
	Total	02	15	35	50	32
Elective Subject (Any one)						
BSB23705 –01	Organic Chemistry II	02	15	35	50	32
BSB23705 – 02	Partial differential equation	02	15	35	50	32
BSB23705 - 03	Molecular biology	02	15	35	50	32
BSB23705 - 04	Botany	02	15	35	50	32
BSB23705 - 05	Physics	02	15	35	50	32
	Total	02	15	35	50	32
Elective Subject (Any one)						
BSB23706 -01	Chemistry Practical	02	15	35	50	32

BSB23706 - 02	Mathematics Practical	02	50		50	32
BSB23706 - 03	Zoology Practical	02	15	35	50	32
BSB23706 - 04	Botany Practical	02	15	35	50	32
BSB23706 - 05	Physics Practical	02	15	35	50	32
	<b>Total</b>	<b>02</b>	<b>15</b>	<b>35</b>	<b>50</b>	<b>32</b>
<b>Enhancing Professional Capacity (EPC)</b>						
BSB23707	Reading and reflecting of text	02	50	-	50	32
BSB23708	Internship - I	02	50	-	50	32
<b>Value Added Course</b>						
BSB23709	Personality Development	02	50	-	50	32
	<b>Total</b>	<b>06</b>	<b>150</b>		<b>150</b>	<b>96</b>
	<b>Total</b>	<b>22</b>	<b>270</b>	<b>280</b>	<b>550</b>	<b>352</b>

**Table-VIII: Course of study for Semester VIII**

Course Code	Course	Credits	Marks			Clock Hours
			Internal	External	Total	
Perspective in Education						
BSB23801	School Management and Leadership	04	30	70	100	64
Elective Subject (Any one)						
BSB23802-01	Guidance and Counseling	64	4	30	70	100
BSB23802-02	Education for Human Rights and Peace Education	64	4	30	70	100
BSB23802-03	Women Education	64	4	30	70	100
BSB23802-04	Adult Education and Lifelong Education	64	4	30	70	100
BSB23802-05	Population Education and Family Life Education	64	4	30	70	100
BSB23802-06	Education for Sustainable Development and Environment Education	64	4	30	70	100
BSB23802-07	Disaster Management	64	4	30	70	100
BSB23802-08	Introduction to Educational Research	64	4	30	70	100
	Total	08	60	140	200	128
Elective Subject (Any one)						
BSB23803 - 01	Physical Chemistry III	02	15	35	50	32
BSB23803 - 02	Complex analysis	02	15	35	50	32
BSB23803 - 03	Entomology	02	15	35	50	32
BSB23803 - 04	Botany	02	15	35	50	32
BSB23803 - 05	Physics	02	15	35	50	32
	Total	02	15	35	50	32
Elective Subject (Any one)						
BSB23804 - 01	Organic Chemistry III	02	15	35	50	32
BSB23804 - 02	Optimization Techniques	02	15	35	50	32
BSB23804 - 03	Techniques in biology	02	15	35	50	32
BSB23804 - 04	Botany	02	15	35	50	32

BSB23804 - 05	Physics	02	15	35	50	32
	<b>Total</b>	<b>02</b>	<b>15</b>	<b>35</b>	<b>50</b>	<b>32</b>
<b>Elective Subject (Any one)</b>						
BSB23805 - 01	Analytical Chemistry II	02	15	35	50	32
BSB23805 - 02	Lebesgue integration	02	15	35	50	32
BSB23805 - 03	Environmental biology	02	15	35	50	32
BSB23805 - 04	Botany	02	15	35	50	32
BSB23805 - 05	Physics	02	15	35	50	32
	<b>Total</b>	<b>02</b>	<b>15</b>	<b>35</b>	<b>50</b>	<b>32</b>
<b>Elective Subject (Any one)</b>						
BSB23806 - 01	Chemistry Practical	02	50		50	32
BSB23806 - 02	Mathematics Practical	02	50		50	32
BSB23806 - 03	Zoology Practical	02	50		50	32
BSB23806 - 04	Botany Practical	02	50		50	32
BSB23806 - 05	Physics Practical	02	50		50	32
	<b>Total</b>	<b>02</b>	<b>15</b>	<b>35</b>	<b>50</b>	<b>32</b>
<b>Enhancing Professional Capacity (EPC)</b>						
BSB23807	Internship -II	02	50	-	50	32
	<b>Total</b>	<b>02</b>	<b>50</b>	<b>-</b>	<b>50</b>	<b>32</b>
	<b>Total</b>	<b>18</b>	<b>170</b>	<b>280</b>	<b>450</b>	<b>288</b>