

STUDY AND EVALUATION SCHEME
of
INTEGRATED B.Sc. B.Ed. (PCM)

SUMMARY

Programme	B.Sc. B.Ed. (PCM)
Duration	8 Semester
Medium	English and Hindi
Credits	203

Syllabus B.Sc. B.Ed. (PCM)(SEMESTER-I)

Sr. No.	Subject Code	Subject Name	Effective Teaching			Credits	Evaluation Scheme		
			L	T	P		Internal Assessment	End Term	Total Marks
			Hours/week						
1	MBSPD 101N	English/MIL Communication	2	-	-	2	30	70	100
2	MBSPD 102N	Mechanics	3	1	-	4	30	70	100
3	MBSPD 103N	Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons	3	1	-	4	30	70	100
4	MBSPD 104N	Differential Calculus	5	1	-	6	50	100	150
5	MBSPD 152N	Mechanics -Lab	-	-	4	2	20	30	50
6	MBSPD 153N	Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons-Lab	-	-	4	2	20	30	50
8	MBSPD 105N	Childhood & Growing up	4	2	-	6	30	70	100
9	MBSPD 106N	Learning & Teaching	4	2	-	6	30	70	100
Total			21	7	8	32	240	510	750

B.Sc. B.Ed. (PCM)(SEMESTER-II)

Sr. No.	Subject Code	Subject Name	Effective Teaching			Credits	Evaluation Scheme		
			L	T	P		Internal Assessment	End Term	Total Marks
			Hours/week						
1	MBSPD 201N	Environmental Science	2	-	-	2	30	70	100
2	MBSPD 202N	Electricity, Magnetism and EMT	3	1	-	4	30	70	100
3	MBSPD 203N	Chemical Energetics, Equilibria & Functional Group Organic Chemistry-I	3	1	-	4	30	70	100
4	MBSPD 204N	Differential Equations	5	1	-	6	50	100	150
5	MBSPD 252N	Electricity, Magnetism and EMT-Lab	-	-	4	2	20	30	50
6	MBSPD 253N	Chemical Energetic, Equilibrium & Functional Group Organic Chemistry-I Lab	-	-	4	2	20	30	50
8	MBSPD 205N	Contemporary India & Education	4	2	-	6	30	70	100
9	MBSPD 206N	Critical Understanding of ICT	2	1	-	3	30	70	100
Total			19	6	8	29	240	510	750

B.Sc. B.Ed. (PCM)(SEMESTER-III)

Sr. No.	Subject Code	Subject Name	Effective Teaching			Credits	Evaluation Scheme		
			L	T	P		Internal Assessment	End Term	Total Marks
			Hours/week						
1	Elective	(Skill Enhancement Course -1) SCE-1	2	-	-	2	30	70	100
2	MBSPD 302N	Thermal Physics and Statistical Mechanics	3	1	-	4	30	70	100
3	MBSPD 303N	Solutions, Phase Equilibria, Conductance, Electrochemistry & Functional Group Organic Chemistry-II	3	1	-	4	30	70	100
4	MBSPD 304N	Real Analysis	5	1	-	6	50	100	150
5	MBSPD 352N	Thermal Physics and Statistical Mechanics - Lab	-	-	4	2	20	30	50
6	MBSPD 353N	Solutions, Phase Equilibrium, Conductance, Electrochemistry & Biomolecules - Lab	-	-	4	2	20	30	50
8	MBSPD 305N	Knowledge & Curriculum	4	2	-	6	30	70	100
9	MBSPD 306N	Creating Inclusive School	2	1	-	3	30	70	100
Total			19	6	8	29	240	510	750

SEMESTER-III (SEC-1: Opt any one) (PCM)

- ♦ MBSPD 301(I)N- Physics Workshop Skills
- ♦ MBSPD 301(II)N- Fuel
- ♦ MBSPD 301(III)N- Integral Calculus

B.Sc. B.Ed. (PCM)(SEMESTER-IV)

Sr. No.	Subject Code	Subject Name	Effective Teaching			Credits	Evaluation Scheme		
			L	T	P		Internal Assessment	End Term	Total Marks
			Hours/week						
1	Elective	(Skill Enhancement Course -2) SCE-2	2	-	-	2	30	70	100
2	MBSPD 402N	Waves and Optics	3	1	-	4	30	70	100
3	MBSPD 403N	Chemistry of s- and p-block elements, States of matter & Chemical kinetics	3	1	-	4	30	70	100
4	MBSPD 404N	Algebra	5	1	-	6	50	100	150
5	MBSPD 452N	Waves and Optics - Lab	-	-	4	2	20	30	50
6	MBSPD 453N	Chemistry of s- and p-block elements, States of matter & Chemical kinetics - Lab	-	-	4	2	20	30	50
8	MBSPD 405N	Understanding Disciplines and School Subjects	4	2	-	6	30	70	100
9	MBSPD 406N	Guidance And Counseling	2	1	-	3	30	70	100
Total			19	6	8	29	240	510	750

SEMESTER-IV (SEC-2: Opt any one) (PCM)

- ♦ MBSPD 401(I)N- Applied Optics
- ♦ MBSPD 401(II)N- Basic Analytical Chemistry
- ♦ MBSPD 401(III)N- Theory of Equations

B.Sc. B.Ed. (PCM)(SEMESTER-V)

Sr. No.	Subject Code	Subject Name	Effective Teaching			Credits	Evaluation Scheme		
			L	T	P		Internal Assessment	End Term	Total Marks
			Hours/week						
1	Elective	(Skill Enhancement Course -3) SCE-3	2	-	-	2	30	70	100
2	Elective 1 (DSE)	Discipline Specific Elective-1 (DSE-1)	3	1	-	4	30	70	100
3	Elective 2 (DSE)	Discipline Specific Elective-2 (DSE-2)	3	1	-	4	30	70	100
4	Elective 3 (DSE)	Discipline Specific Elective-3 (DSE-3)	5	1	-	6	50	100	150
5	Elective (Lab)	Discipline Specific Elective-1 (DSE-1) Lab	-	-	4	2	20	30	50
6	Elective (Lab)	Discipline Specific Elective-2 (DSE-2) Lab	-	-	4	2	20	30	50
8	MBSPD 507N	Language Across the Curriculum	4	2	-	6	30	70	100
9	MBSPD 508N	Art & Aesthetics In Education	2	1	-	3	30	70	100
Total			19	6	8	29	240	510	750

SEMESTER-V (SEC-3: Opt any one) (PCM)

- MBSPD 501(I)N - Electrical circuit network Skills
- MBSPD 501(II)N - Pharmaceutical Chemistry
- MBSPD 501(III)N - Probability and Statistics

Discipline Specific Elective papers: (opt any three) (PCM)

- MBSPD 502N/MBSPD 552N (Lab) : Digital and Analog Circuits and Instrumentation
- MBSPD 503N/MBSPD 553N (Lab) : Polymer Chemistry
- MBSPD 504N: Matrices
- MBSPD 505N/MBSPD 555N (Lab) : Solid State Physics
- MBSPD 506N/MBSPD 556N (Lab) : Applications of Computer in Chemistry

B.Sc. B.Ed. (PCM)(SEMESTER-VI)

Sr. No.	Subject Code	Subject Name	Effective Teaching			Credits	Evaluation Scheme		
			L	T	P		Internal Assessment	End Term	Total Marks
			Hours/week						
THEORY									
1	Elective	(Skill Enhancement Course -4) SCE-4	2	-	-	2	30	70	100
2	Elective 1 (DSE)	Discipline Specific Elective-1 (DSE-1)	3	1	-	4	30	70	100
3	Elective 2 (DSE)	Discipline Specific Elective-2 (DSE-2)	3	1	-	4	30	70	100
4	Elective 3 (DSE)	Discipline Specific Elective-3 (DSE-3)	5	1	-	6	50	100	150
5	Elective (Lab)	Discipline Specific Elective-1 (DSE-1) Lab	-	-	4	2	20	30	50
6	Elective (Lab)	Discipline Specific Elective-2 (DSE-2) Lab	-	-	4	2	20	30	50
	MBSPD 607N	Internship-I (Four Weeks)	-	-	6	3	30	70	100
Total			13	3	14	23	210	440	650

SEMESTER-VI (SEC-4 : Opt any one) (PCM)

- ♦ MBSPD 601(I)N: Basic Instrumentation Skills
- ♦ MBSPD 601(II)N: Chemistry of Cosmetics & Perfumes
- ♦ MBSPD 601(III)N: Graph Theory

Discipline Specific Elective (DSE-1, DSE-2, DSE-3) (Choose any three)

SEMESTER-VI (PCM)

- ♦ MBSPD 602N/MBSPD 652N (Lab) : Elements of Modern Physics
- ♦ MBSPD 603N/MBSPD 653N (Lab) : Instrumental Methods of Chemical Analysis
- ♦ MBSPD 604 N: Complex Analysis
- ♦ MBSPD 605N : Numerical Methods
- ♦ MBSPD 606 N/MBSPD 656N (Lab) : Green Chemistry

Generic Elective:

MUIPR Intellectual Property Right

B.Sc. B.Ed. (PCM)(SEMESTER-VII)

Sr. No.	Subject Code	Subject Name	Effective Teaching			Credits	Evaluation Scheme		
			L	T	P		Internal Assessment	External Assessment	Total Marks
			Hours/week						
	MBSPD 701N	Pedagogy of School Subject – Mathematics	3	1	-	4	30	70	100
2	MBSPD 702N	Pedagogy of School Subject-Physical Science	3	1	-	4	30	70	100
	Total		10	2	-	12	90	210	300

B.Sc. B.Ed. (PCM)(SEMESTER-VIII)

Sr. No.	Subject Code	Subject Name	Effective Teaching			Credits	Evaluation Scheme		
			L	T	P		Internal Assessment	External Assessment	Total Marks
			Hours/week						
1	MBSPD 801N/ MBSPD 801N	School Internship-II (Sixteen Weeks)	-	8	24	20	100	200	300
	Total		-	8	24	20	100	200	300

