

**CBCS SYLLABUS**  
**FOR**  
**THREE YEARS UNDER-GRADUATE COURSE**  
**IN**  
**B.Sc. Mathematics (PROGRAMME)**  
*(w.e.f. 2017)*



**BANKURA UNIVERSITY**  
**BANKURA**  
**WEST BENGAL**  
**PIN 722155**

**STRUCTURE IN MATHEMATICS (PROGRAMME)****SEMESTER – I**

Course Code	Course Title	Credit	Marks			No. of Hours		
			I.A.	ESE	Total	Lec.	Tu.	Pr.
SP/MTH/101/C -1A	Calculus, Geometry & Differential Equation	6	10	40	50			
SP/102/ C-2A	Discipline-2	6	10	40	50			
SP/103/ C-3A	Discipline-3	6	10	40	50			
ACSHP/ 104/ AECC-1	Environmental Studies	4	10	40	50			
<b>Total in Semester - I</b>		<b>22</b>	<b>40</b>	<b>160</b>	<b>200</b>			

**SEMESTER –II**

Course Code	Course Title	Credit	Marks			No. of Hours		
			I.A.	ESE	Total	Lec.	Tu.	Pr.
SP/MTH/201/C -1B	Real Analysis	6	10	40	50			
SP/202/ C-2B	Discipline - 2	6	10	40	50			
SP/ 203/C- 3B	Discipline - 3	6	10	40	50			
ACSHP/204/ AECC-2	English/MIL	2	10	40	50			
<b>Total in Semester - II</b>		<b>20</b>	<b>40</b>	<b>160</b>	<b>200</b>			

**SEMESTER – III**

Course Code	Course Title	Credit	Marks			No. of Hours		
			I.A.	ESE	Total	Lec.	Tu.	Pr.
SP/MTH/301/C-1C	Algebra	6	10	40	50			
SP/302/C-2C	Discipline - 2	6	10	40	50			
SP/ 303/ C-3C	Discipline - 3	6	10	40	50			
SP/MTH/304/SEC-1	Logic and Sets	2	10	40	50			
<b>Total in Semester - III</b>		<b>20</b>	<b>40</b>	<b>160</b>	<b>200</b>			

**SEMESTER – IV**

Course Code	Course Title	Credit	Marks			No. of Hours		
			I.A.	ESE	Total	Lec.	Tu.	Pr.
SP/MTH/401/C-1D	Differential Equations and Vector Calculus	6	10	40	50			
SP/ 402/ C-2D	Discipline-2	6	10	40	50			
SP/ 403/ C-3D	Discipline-3	6	10	40	50			
SP/MTH/404/SEC-2	Graph Theory Operating System: Linux	2	10	40	50			
<b>Total in Semester - IV</b>		<b>20</b>	<b>40</b>	<b>160</b>	<b>200</b>			

**SEMESTER – V**

Course Code	Course Title	Credit	Marks			No. of Hours		
			I.A.	ESE	Total	Lec.	Tu.	Pr.
SP/MTH/501/ DSE-1A	Any one of the following Linear Programming Theory of Equations	6	10	40	50			
SP/ 502/DSE- 2A	Discipline - 2	6	10	40	50			
SP/ 503/DSE- 3A	Discipline - 3	6	10	40	50			
SP/MTH/504/S EC-3	Programming Language: C or C++	2	10	40	50			
<b>Total in Semester – V</b>		<b>20</b>	<b>40</b>	<b>160</b>	<b>200</b>			

**SEMESTER – VI**

Course Code	Course Title	Credit	Marks			No. of Hours		
			I.A.	ESE	Total	Lec.	Tu.	Pr.
SP/MTH/ 601/DSE-1B	Any one of the following Probability and Statistics Mechanics	6	10	40	50			
SP/ 602/DSE- 2B	Discipline - 2	6	10	40	50			
SP/ 603/DSE- 3B	Discipline - 3	6	10	40	50			
SP/MTH/ 604/SEC-4	Computer Graphics Numerical Analysis with practical	2	10	40	50			
<b>Total in Semester – VI</b>		<b>20</b>	<b>40</b>	<b>160</b>	<b>200</b>			

SP= Science programme/Pass, MTH= Mathematics, ACSHP= Arts Commerce Science Honours Pass, C= Core Course, MIL= Modern Indian Language, AECC = Ability Enhancement Compulsory Course, SEC= Skill Enhancement Course, DSE= Discipline Specific Elective IA= Internal Assessment, ESE= End-Semester Examination, Lec.= Lecture, Tu.= Tutorial, and Pr.=Practical