Ambedkar University Delhi

Course Outline

Winter Semester (Jan-Jun 2019)

School:			Undergraduate Studies	
Programme with titl	e:		BA (Honours)	
Semester to which offered: (II/IV/ VI)			IV semester	
Course Title:			Algebra II	
Credits:			4 Credits	
Course Code (new):			SUS1MA506	
Course Code (old):			M07	
Type of Course:	Compulsory	yes	Cohort	BA (H) Mathematics
	Elective	yes	Cohort	BA (H) other than Mathematics

For SUS only (Mark an X for as many as appropriate):

Pre-requisites:		M03	
Email of course coordinator:		balchand@aud.ac.in	
Course Coordinator and Team:		Balchand Prajapati (CC), Geetha Venkatraman	
5.	Elective		
4.	Discipline (Elective)	X	
3.	Discipline (Compulsory)	x	
2.	Foundation (Elective)		
1.	Foundation (Compulsory)		

Aim: This course will continue from where the first Algebra course M03 finished. Further topics in Group Theory, Ring Theory and Vector Spaces will be investigated.

Brief description of modules/ Main modules:

- 1. Group Theory
- 2. Ring Theory
- 3. Linear Algebra

Reading List:

- 1. Bhattacharya, Jain and Nagpal, Basic Abstract Algebra (Second Edition), Cambridge, 2009.
- 2. Joseph A. Gallian, Contemporary Abstract Algebra (Fourth Edition), Narosa Publishing House, New Delhi, 1999.
- 3. Jimmie Gilbert and Linda Gilbert, Linear Algebra and Matrix Theory (Second Edition), Brooks Cole, 2004.
- 4. David C. Lay, Linear Algebra and its Applications (Third Edition), Pearson Education Asia, Indian Reprint, 2007.

Assessments:

Components		Weightage	Schedule
1.	Class Test	10%	Second week of February
2.	Mid Semester Test	25%	As per AUD timetable
3.	Presentation/Viva	15%	First week of April
4.	End Semester Test	35%	As per AUD timetable
5.	Tutorial Assessment	15%	Throughout the semester