

**Rani Durgavati University, Jabalpur**  
**Department of Mathematics & Computer Science**

**SYLLABUS OF M.PHIL. EXAMINATION IN THE SUBJECT MATHEMATICS**  
**(SESSION 2018-19 AND ONWARDS)**

Syllabus opted by the Board of Studies in Mathematics, R.D. University in the meeting held on 10-07-18

**Note:-** The overall minimum credit requirement, including credit for the course work, for the award of M.Phil. degree shall not be less than 48 credits.

M.Phil. (Mathematics) Examination shall consist of the following :-

**First Semester :** The credits of the M.Phil. Course (24 credits) will be as under :-

I.	<b>Research Methodology</b>	(4 credits)	100 marks
II.	<b>Review of Published Research in the relevant field</b>	(4 credits)	100 marks
III.	<b>Computer Applications</b>	(4 credits)	100 marks
	(i) Theory paper		50 marks
	(ii) Practical's		30 marks
	(iii) Viva voce		20 marks
IV.	<b>One Advance subjects in the relevant field</b>	(4 credits)	100 marks
	<b>Choose any one paper out of the following optional papers</b>		
	Paper-I	: Homotopy and Singular Homology theory	
	Paper-II	: Rational Finite Elements	
	Paper-III	: Spline Approximation theory	
	Paper-IV	: Theory of Distribution	
	Paper-V	: Fuzzy Topology	
	Paper-VI	: Mathematical Cryptography	
V.	<b>Synopsis submission</b>	(4 credits)	100 marks
	(i) Preparation of Synopsis		50 marks
	(ii) Expressing the idea of Research work		25 marks
	(iii) Expected Outcome of Research work		25 marks
VI.	<b>Comprehensive Viva-voce</b>	(4 credits)	100 marks
	(i) Power Point presentation of the synopsis		50 marks
	(ii) Viva-voce		50 marks

**Total marks**  **600 marks**

**Second Semester :** The credits of the M.Phil. Course (24 credits) will be as under :-

I.	Seminar	(4 credits)	100 marks
II.	Term Paper/ Assignment	(4 credits)	100 marks
III.	Final Dissertation/ Project Presentation(12 credits)		300 marks
IV.	Comprehensive Viva-voce	(4 credits)	100 marks

**Total marks**  **600 marks**  
**Grand total marks**  **1200 marks**

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