



Ref. No:.....

Date:.....

## Notice

It is notified for information of all concerned that the classes of Ph.D. Course Work for the year 2019-2020 under the Department of Mathematics will commence from Wednesday, the 16<sup>th</sup> of October 2019.

All registered candidates have to do Ph.D. course work under the said Department and they are requested to submit Ph.D. Course registration form duly forwarded by the concerned Supervisor(s) and HOD/Coordinator of the respective Department to the Office of the undersigned within the 31<sup>st</sup> of October, 2019.

The course work registration form and the modules of Course Work are annexed in the consecutive pages.

*Jayanta Mondal*  
Co-ordinator 30/9/2019  
Department of Mathematics  
Diamond Harbour Women's University

# SYLLABUS OF COURSE WORK

*Of*

## DOCTOR OF PHILOSOPHY (Sc.)

### Departments Mathematics



## Diamond Harbour Women's University

### **Important points to be noted:**

1. *Duration of Course Work : One Semester (6 Months)*
2. *Total Marks : 200 (Two papers 100 marks each)*
3. *Duration of Examination: 4 Hrs. (2 Hrs. for each paper)*
4. *Paper I: Compulsory Units: Research Methodology & Review of Research Work: 100 Marks (2 hrs)*
  - (a) *Research Methodology: 50 Marks*
  - (b) *Review of Research Work: 50 Marks*
5. *Paper II : Elective Units: Subject Course Work: 100 Marks (4 hrs.)*
6. *Examination will be held at the end of the Semester.*
7. *Total Lecture Hour (periods) for Paper II (elective units): 40(Forty).*

## SYLLABUS OF COURSE WORK OF PH. D(Sc.)

Courses	Subject	Full Marks
Compulsory Units	A. Research Methodology	50
	B. Review of Research Work	50
Elective Units	1. Advance Commutative Algebra and Algebraic Geometry	50
	2. Advance topic in Algebra	50
	3. Sequence Space and Topological Groups	50
	4. Advanced topics in Topology and Functional Analysis	50
	5. Ordinary Differential Equation and its application	50
	6. Advance topic in Partial Differential Equations	50
	7. Mathematical Methods and Application	50
	8. Advance Integral Equation	50
	9. Advance Theory of Bio-Mathematics	50
	10. Theory of Waves and Water Waves	50

*N.B. : Students to option for any 2 elective units out of the elective units offered. 20x2 classes to be attended (100 marks)*

**DIAMOND HARBOUR WOMEN'S UNIVERSITY**  
Sarisha, D.H. Road, PIN- 743368

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**Ph.D. COURSE WORK REGISTRATION FORM**

(Under Science/Arts. Session.....)

FACULTY:.....

DEPARTMENT: .....

(in which registered for Ph.D.)

1. Name in full (in Block letters) : .....

2. Address for Communication:.....

.....

3. Phone No. \_\_\_\_\_ Mobile No. \_\_\_\_\_

4. Registration No:.....of.....

5. Date of Registration:.....

6. Details of Ph. D. Course work:

Sl. No.	Name of Subject	Subject Code Compulsory/Optional
1.	Research Methodology	Compulsory
2.	Review of Research Work	Compulsory
3.		Optional
4.		Optional

Date:.....

Signature of the student in full

Head/Coordinator of the Department

Supervisor(s)

Signature of the Dean, Faculty of Science/Arts