

## RAMA DEVI WOMEN'S UNIVERSITY, VIDYA VIHAR BHUBANESWAR-22

	Proceeding of the meeting of the Board of Studies We surel
	held on Ary 13 at 10.30 AM/P.M. in the University Office.
	Bhoi Nagar, Bhubaneswar-22.
	Members Present:
	1. prof; Chandi charan Reith, Dept of Life CC, KDW
	1. prof. chandi charan Reith, sept of Life (c., LDW) 2. prof. A. 1. Mohanty, Retd., Dept of Botany, Uthal Unv.
	3. Dr. Shikha Augh. Asso. pmf, Dept gothyte Sr., LDWU
	+, Dr. Salti kanta Roth, HOD, Dept of Lite Sr, RDWU.
	5. Dr. Navneet kawy, Ast. prof, Deft of LAST, DOWD.
	6. Dr. Mutamayre humbhan 11 11
	6. Dr. Mutamayre humbhan, 11 11 11 11.
	8.
ŀ	Prof. Dr. chandi charan Rech is selected as Chairman of the
	Prof. Dr. W. W. Ch. C. C. C. C. S.
	The recommendations of the Board in respect of the Regulations, Detailed Syllabus, Text
	Books and other items are appended the prescribed form.
	Signature of the Members:-
	CHAIRMA 11/1/2025
1	1. 21/4/2123
	2. 2m
	3. ONDed
	3. Allely-13 4. S. 21/4/23 5. Murt 103
	5. Mwktary 123
	6 Alah Br Date

8.

1. Decomended the names and contact. No. of Bocord of Conducting member, Moderation bocord and paper reflect for Pbr lites canding. Course woods boor 83-24 examination. Decomendations 2. Accomended the list of examiners (external and internal) for po ph.D. course wood little 1. 2023-24 examinations. 3. Per life Sc: Syllabors was examined and bellowing modifications (1) paper HC-102 Microbiology.
Added- "COVID". In Unit-D (11) paper H-204-practical.
a. (10, contents" from No. 4-deleted. b. "Dinolved 10, estimation"-added at No.20 (. " Extoadion of exential oil "aglored at No.21. (M) paper OE-801 A Human Health and Hygiene UNIT J- "and life seventstyle absorder"-defeted Unit II. "coordsovascular disorder" changed to "hite style Myoccordral intraction "cause, treatment and preventing"

- deleted

- deleted

3092-83. (Annoyed)

5. Non Credit skill based contribicate course on how heen introduced and approved in 2092-23 BOS. 6. Enggetions as per NEP-2020 will be introduced in the cirriculum, time to time as per directions 7. champerson is authorised to make changes it required. Britis Hant Box North 2 814/23 21/4/23 21/4/23

### Proceeding of the meeting of the Board of Studies of PG Life Sciences held on 13.05.2022 at at 11:30 am in the CoE Exam Board Room, RDWU, Bhubaneswar

A meeting of the Board of Studies of PG Life Sciences held on 13.05.2022, at 11:30 am in the CoE Exam Board Room, RDWU, Bhubaneswar. Dr. Shikha Singh as a head of the Members Present person by the chairperson. Dr. Singh was clasted as chair

Prof. R.C. Mohanty, Retd. Prof. Dept. of Botany Utkal University

Prof. Animesh Mohapatra, Dept. of Life Science, R.I.E., BBSR

Dr. Sakti Kanta Rath, Assoc. Prof., Life Sciences

Dr. Navneet Kaur, Asst. Prof., Life Sciences

Dr. Mukta Mayee Kumbhar, Asst. Prof., Life Sciences

Dr. Alok Prasad Das, Asst. Prof., Life Sciences

Dr. Shikha Singh, Assoc. Prof., Head, Life Sciences

External member

External member

Internal Member

Internal Member

Internal Member

Internal Member

Chairman

### Matter discussed

Agenda 1: To recommend the name with Contact No and specialization for Board of Conducting Examiners, Moderation Board & Paper Setters for the PG and Ph.D (Course Work) Examination 2022-23 in the prescribed format.

Agenda 2: To recommend the list of Examiners (External & Internal) for PG and Ph.D (Course Work) 2022-23.

Agenda 3: To examine the structure of PG syllabus in detail

Agenda 4: To frame the PG syllabus as per the new structure

Agenda 5: Introduction of non-credit skill-based certificate course

Agenda 6: To recommend the Syllabus of the PG and Ph.D (course work) Examination 2022

Agenda 7: Other Matters

At the outset, the Chairman appraised the committee about the agenda of the meeting. Based on the deliberation, the following was resolved:

#### Resolution 1

The committee discussed and recommended the name of the experts for Board of Conducting Examiners, Moderation Board & Paper Setters for the PG in Life Sciences (all semesters) and Ph.D. (Course Work) Examination 2022-23 in the newly modified structure of the courses of PG Life Sciences and PhD Course work.

M.Sc. LIFE SCIENCES
2 YEARS SEMESTER COURSE (2022-23)



## **COURSES OF STUDY**

**CHOICE BASED CREDIT SYSTEM** 

P.G. DEPARTMENT OF LIFE SCIENCES RAMA DEVI WOMEN'S UNIVERSITY BHUBANESWAR, ODISHA

THE REPORT OF THE PROPERTY OF

-Runtity

3.5.12

Must 13/5/22

Jellock 2

### Resolution 2

The committee discussed and recommended the list of Examiners (External & Internal) along with their contact details for Ph. D (Course Work) and the newly modified structure courses of PG Life Sciences of the year 2022-23.

### **Resolution 3**

The committee deliberated the structure of PG syllabus in Life Sciences. The objectives and learning outcomes of each unit of each paper was discussed and finalized to include in the newly structured syllabus.

#### **Resolution 4**

The committee discussed the structure of PG syllabus in Life Sciences and unanimously modified the structure by adding following new modified papers into the syllabus:

- Semester 1: Cell biology, Microbiology, Bioinstrumentation, practical and computer application course by e-learnings.
- Semester 2: Biochemistry, Molecular Biology, Ecology, Taxonomy & Evolution, Practical, Plant Diversity/Animal Diversity (as Choice based) and Human Health Hygiene or MOOCs (SWAYAM, NPTEL) (as Choice based).
- Semester 3: Immunology, Genetics, Practical, Plant Physiology and Developmental Biology or Animal Physiology and Developmental Biology (as Choice based), Research Methodology or Waste management ((as Choice based) and Field Internship.
- Semester 4: Subject overview, Seminar, Dissertation, Dissertation Evaluation and Women and Society
- The total credit of the PG Structure in Life Sciences is enhanced to 103. The committee discussed, finalized and passed the newly modified syllabus in PG Life Sciences for the year 2022-23.

### **Resolution 5**

The committee members are requested to finalize the skill-based subjects for PG students. Finally, it was resolved that following non-credit skill-based certificate course will be introduced for the PG Life Sciences students:

- Scientific manuscript writing from paper to publication
- Integrated pest management
- Biofertilizer

### **Resolution 6**

The committee members passed the PhD courses and newly structured PG Life Sciences Courses.

### Resolution 7

- It was resolved that Chairman of the BOS and Controller of Examinations will be authorized to make any change in the list of examiners, paper setters, Moderators and Board of conducting examiners.
- It was Unanimously resolved by the committee that last unit of all Hard Core and Core elective papers of each semester will be introduced as guided self-study (blended learning) for the students. Those units will be taught as a blended learning i.e., there will be introductory class then students will learn by themselves. There will be two doubt clearing classes for those units and students will be provided with the study materials for the same.

The meeting ended with the vote of thanks to the chair.

Members

Prof. R.C. Mohanty

Prof. Animesh Mohapatra

Dr. Sakti Kanta Rath

Dr. Navneet Kaur

Dr. Mukta Mayee Kumbhar

Dr. Alok Prasad Das

Dr. Shikha Singh

External member

Internal Member

Internal Member

Internal Member

Internal Member

Chairman

External member

# M.Sc. LIFE SCIENCES 2 YEARS SEMESTER COURSE (2021-22)

### COURSES OF STUDY

**CHOICE BASED CREDIT SYSTEM** 



P.G. DEPARTMENT OF LIFE SCIENCES
RAMA DEVI WOMEN'S UNIVERSITY
BHUBANESWAR, ODISHA

Mutu Ke

M.Sc. LIFE SCIENCES
2 YEARS SEMESTER COURSE (2021-22)

### **COURSES OF STUDY**

**CHOICE BASED CREDIT SYSTEM** 



P.G. DEPARTMENT OF LIFE SCIENCES
RAMA DEVI WOMEN'S UNIVERSITY
BHUBANESWAR, ODISHA

1938 HANDEN 19.5

Mustr Kz

## Paper and Credit Distribution in P.G. Department

Duration	2 (Two) Years
No. of	4
Semesters	
Total Papers	Semester-I 4 Panore
	Campan 4 apers
	1 Comments
	Semester W. C. D.
Total Marks	Semester-IV S Papers Total Papers 18 Semester-I 400
	Semester-II 400
	Semester-III 450
	Comments
	Semester-IV 450 Total Papers- 1700  Each Open Elective Paper = 50 Marks
Total Credits	Semester-1 24
	Semester-II 24
	Semester-III 27
	Semester-IV 27 Total Credits- 102
	All papers except Open Elective 6 credits
	Open Elective 3 credits
Papers	Hard Core 9 Papers
	Core Elective 4 Papers
	Allied Elective (Student has to choose at least one elective from an allied discipline) 3
	Papers
	Open Elective (Open to students of all P.G. Departments) 2 Papers
Scheme of	Total Marks 100 Mid Semester 20
Examinations	End Semester 80
	Total Marks 50 Mid Semester 10
	End Semester 40
Pattern of	5 long questions will be set in the end semester examination each carrying 16 marks of
questions for	02 short notes each carrying 08 marks from each unit
End Semeste	r
Examination	
<b>Duration of</b>	Mid Semester 1 Hour for 20 marks, 45 minutes for 10 marks
Examination	End Semester 3 Hours for 80 marks, 2 Hours for 40 marks

Explan Alexander S. S. Muster B

### PHD COURSEWORK SYLLABUS OF LIFE SCIENCES, RAMA DEVI WOMEN'S UNIVERSITY, 2021

satisfactory

### OUTLINE OF THE SYLLABUS

SI N	Paper	Course Title	Credit	Total Marks	Minimum Pass mark			
1.	Paper-I (LS-01)	Research Methodology (75 marks) and Computer Application (25 marks)	04	100	55%			
2.	Paper-II (LS-02)	Elective Courses	04	100	55%			
3.	Paper-III (LS-03)	Literature Review (Evaluation through a write up and seminar presentation)	7	100	55%			
4.	Paper- IV (LS-04)	Research and Publication ethics	04	100	55%			
		Total	16 4	100	55%			

enarel de Allano

5-3-121

## Ph. D. COURSE WORK SYLLABUS

(2021)



P. G. DEPARTMENT OF LIFE SCIENCES RAMA DEVI WOMEN'S UNIVERSITY, VIDYA VIHAR, BHUBANESWAR-751022

14/7/21 14/7/21 Rucharland Maham



### RAMA DEVI WOMEN'S UNIVERSITY, VIDYA VIHAR BHUBANESWAR-22

Proceeding of the meeting of the Board of Studies . Life Sciences held on 14.07.21 at 11:00 am A.M / P.M. in the University Office, Bhoi Nagar, Bhubaneswar-22. Members Present: 1. Prof. R.C. Mohanty, ketd. P.G. Dept. of Botany, utkal University, BBSR 2. Prof. Pravati Mohapatra, P.G. Dept. of Zoology, lithal University, BBSR 3. Prof. Animesh Mohapatra, Dept. of life Science, R.I.E, BBSR 4. Brof. C. C. Rath, Dept. of life Sciences 5. Dr. S. Singh, Dept. of life Sciences 6. Dr. S. K. Lath. Dept. of life Sciences 7. Dr. M. kumbhar, Dept. of life Sciences 8. Dr. N. kawr, Dept. of life Sciences 8. Dr. N. kawr, Dept. of life Sciences 9. Dr. A.P. Das, Dept. or life science 10. Dr. P. C. Paricha, Dept- of 200 loggy. ..... is selected as Chairman of the

Board for the Academic year 2021.-22 The recommer dations of the Board in respect of the Regulations, Detailed Syllabus, Text Books and other items are appended the prescribed form. The board author Chairman to take any decessions out the fine of ordiversity of the Members:- approved.

9. Nowworkon.

CHAIRMAN 14/7/2021

1. Chedi Charan Bath

2. Phelage

si-shehasi

Protect of Paralle,

8. Mmhta Mayee Kumbhan



## RAMA DEVI WOMEN'S UNIVERSITY, VIDYA VIHAR BHUBANESWAR-22

BHUBANESWAR-22
Proceeding of the meeting of the Board of Studies Life Scionco.  held on .25.08.2020 at 11.00 A.M/P.M. in the University Office,
Bhoi Nagar, Bhubaneswar-22.
Members Present:
1. Prt. C.c. Path
2. Br. S. K. Siogh
3. Dr. M. Kumbar.
4. Dr. N. Kaus
5 Dr. A.P Das
al Bravati Mohaparia
7. Of R.C. Mohanty. 8. Process of Panelle
8. Probable cf. Panelle
Prof./Dr. C. C. Path is selected as Chairman of the Board for the Academic year 2021  The recommendations of the Board in respect of the Regulations, Detailed Syllabus, Text Books and other items are appended the prescribed form. I Unit -V is considered for Board of Shelies are thorizes cost Blandled Shelies. 2. The Board of Shelies are thorizes cost Signature of the Members: - take after pather measures as Chairman for Chairman for Chairman for Chairman of the Chairman for the Chairman of the Chairman for the Chairman of the Board of Shelies are thorized to the Signature of the Members: -take after out the Chairman for Chairman for the Chairman for the Chairman of the Chairman of the Board of Shelies are thorized to the Chairman for the Chairman of the Board of Shelies are thorized to the Chairman for the Board of Shelies are thorized to the Chairman for the Chairman for the Board of Shelies are thorized to the Chairman for the Chairman for the Board of Shelies are thorized to the Chairman for the Chairman for the Board of Shelies are thorized to the Chairman for the Chairman for the Chairman for the Board of Shelies are thorized to the Chairman for the Chairman for the Chairman for the Board of Shelies are thorized to the Chairman for the Chairman for the Chairman for the Board of Shelies are thorized to the Chairman for the Chairman for the Chairman for the Chairman for the Board of Shelies are the Chairman for the Chairma
1. 2. S. S. Sh 2. S. S. Sh 3. Mark Mayer Kumshen 4. Navnet Komr 5. Alok Proposed Des 6. Hulaft 7. 202



1	
	RAMA DEVI WOMEN'S UNIVERSITY,  VIDYA VIHAR, BHUBANESWAR-21  Proceeding of the meeting of the Board of Studies
	Shoi Nagar, Bhubaneswar-22.
]	Members Present:  1. Dr. Chandi Charan Rath, Protesov, ADWD  2. Dr. Sikha Stugh, Associate Prof. DDWD  3. Dr. Sakti kawa Ruth, Associate Prof. ADWD  4. Dr. Manneta Kawa, Aust. Prof., DWD  5. Dr. Mulcta mayre kumbhan, Aust. prof., RDWD  6. Dr. P. C. Paridan, Aust. Prof., Zoo. RDWD
	7.
	8.
	Prof./ Dr

4. Norneet Kan
5. Monta Mayee Kumbhan
6. Gar-

7.

8.

5. 20 Cel 2.

### RAMA DEVI WOMEN'S UNIVERSITY **BHUBANESWAR-751022**

No. d.S./Ph.D. 12-105 /2019,

date: 15 - 4 - 701

From

The HoD & Ex-Officio Chairman Subject Research Committee. P.G. Dept. of life Sevene. R.D.W. University.

To

The Controller of the Examinations Rama Devi Women's University, Vidya Vihar, Bhubaneswar-22

Sub.

: Submission of Proceedings etc. of the SRC Meeting.

: Your letter No. CoE/ Exam./Ph.D.-52/223 /2019, dated 02.03-2019 Ref.

Sir,

With reference to your letter on the subject cited above I enclose herewith the proceedings and the following recommendations duly recommended by the Subject Research Life Science in its meeting held on 20.3.2019 in respect Committee in to select the candidates for recognition of Ph.D. Research Supervisor/Guide along with the application forms of the candidates for necessary action at your end.

1. Proceeding of the Subject Research Committee

2. SRC Recommendation Format duly filled in SRC Members

3. Bio-Data format duly filled in by SRC Members

4. Application(s) of the candidate concerned

Yours feilhfully
HOD 20/3/2019

& Chairman SRC

## RAMA DEVI WOMEN'S UNIVERSITY, BHUBANESWAR 254

Proceeding of the meeting of the Board of Studies Life Science (RGL M-Pl. 8: 20.18. Bhoinagar, Bhubaneswar-22.

### Members Present:

- 1. Dr. Chandi Charan Rath, Profesor.
- 2. Dr. Shikha Singh, Associate Profesor
- 3. Dr. Shaktikunta Roth, Associate Professor
- 4. Dr. Warnest kann, Assistant Professor
- 5. Dr. Muletamoyee kundhar, Asst. Professor
- 6. Dr. Alok Prasad Das, Asst. Progesion
- 7. Dr. P.C. Rarichha, Asst. Professor.
- 8. Prof. R.C. Mohanty, Red. Dept-of Botany, utkal university. 9. Prof. Pravati Mohapatra, P.G. Dept. of 200 logy, utkal university.
- 10. Dr. Animeil Mohapatra, Professor, Dept-07 life Science, RIE, BBSR.

Prof./ Dr. Chandi Chavan Rath is selected Chairman of the Board for the Academic year 20.18 - 19

The recommendations of the Board in respect of the Regulations, Detailed Syllabus, Text Books and other items are appended the prescribed form.

Signature of the Members:

8. Mukt 4/8/18

9. Nent bon yeles.

10.

- 1. The Board of Shdies approved the current Syllabor for P.G. life science for 2018-2020
- 2. The Board of Studies also approved the modified Cyllates du P.G. Life sciences for the Academic Cersion 2019-2021
- 3. All the members of the board of Studies unanimously authorised the chairman board or studies, life science to take any decission on behalf of the board of the 8 mdies for the readonic session 2018-2019 in cose of exigencies.

in wheat had be a find the beauty of the bea your while with with a real way is

### OUTLINE COURSE STRUCTURE P.G. DEPARTMENT OF LIFE SCIENCES RAMA DEVI WOMEN'S UNIVERSITY, BHUBANESWAR

PAPER	COURSE	COURSE TITLE	Units	Credits	Mid- sem	End- sem	Total
		SEMEST	FR-I				
Hard Core	HC-101	Cell biology	5	5	30	70	100
Hard Core	HC-102	Microbiology	5	5	30	70	100
Hard Core	HC-103	Bioinstrumentation	5	5	30	70	100
Hard Core	HC- 104	Practical related to paper HC-101, HC- 102, HC-103		5	30 70		100
Allied AC-101 Core		Computer application course by e-learning centre	3	3	Mid sem 10 + Practical 10= 20 marks	30	50
TOTAL				23	140	310	450
		SEMEST	FR.II				
Hard Core	HC-201	Biochemistry	5	5	30	70	100
Hard Core	HC-202	Molecular Biology and Genetic Engineering	5	5	30	70	100
Hard Core	HC-203	Ecology, Evolution and Taxonomy	5	5	30	70	100
Hard HC- 204 Core		Practical related to paper HC-201, HC- 202, HC-203 and CE- 201 A/B		5	30	70	100
Core Elective	CE-201 A/B	A: Plant Diversity B:Animal Diversity	5	5	30	70	100
Open OE-201 Elective A/B		A: Human health & Hygiene B: MOOCs (From SWAYAM/ NPTEL etc.)		4		50	50
TOTAL				29	150	400	550
		SEMESTE	-R-III				
Hard Core	HC-301	Immunology	5	5	30	70	100
Hard Core	HC-302	Genetics	5	5	30	70	100
Hard Core		Practical related to paper HC-301, HC- 302 and CE-301 A/B, CE-302 A/B	-	5	30	70	100
Core Elective	CE- 301	A: Plant Physiology Developmental Biology B: Animal Developmental	5	5	30	70	100

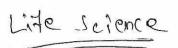
		Biology, Physiology & Endocrinology					
Core Elective	CE-302 A: Research	5	5	30	70	100	
Field Internship	FI- 301	Field Internship		3		50	50
TOTAL				28	150	400	550
		SEMEST	ER-IV				
Hard Core	HC-401	Review Literature	-	5	-	100	100
Hard Core	HC-402	Seminar	-	5	-	100	100
Hard Core	HC-403	Dissertation	-	5	-	100	100
Core Elective	CE-401	Final Presentation	-	5	-	100	100
Allied Core	AC-401	Theory : 'Women and Society' (For All PG Subjects/Programs)	03	03	15	35	50
TOTAL				23	15	435	450

### **Summary**

HC-HardCore	14 x100	1400
CE-CoreElective	4 x100	400
OE-OpenElective	1x50	50
AC-AlliedCore	2x50	100
FI-FieldInternship	1x50	50
TotalMarks:		2000

### Summary

	Credits	TotalMarks
Sem-I	23	450
Sem-II	29	550
Sem-III	28	550
Sem-IV	23	450
TOTAL	103	2000



### SEMESTER-I

SI No.	Paper code	Paper	Name of Paper	Mark	Credit
1	1.1	Paper-1	Research Methodology and Laboratory Technique	100	6
2	1.2	Paper-2	Advances in Biochemistry, Molecular Biology and Ecology	100	6
,3	1.3	Paper-3	Microbiology and Immunology	100	4
				300	16

### SEMESTER-II

SI. No	Paper code	Paper	Marks	Credit
1	2.1	Review of literature Writing(50)+ ppt. Presentation(50)	100	4
2	2.2	Preparation and presentation of seminar Synopsis presentation (50)+ Pre-thesis submission seminar(50)	100	J
3	2.3	Dissertation /	100	6
u.j	Total		300	1.3

Charn's

21.7.17