

12.8.17

**P.K.R ARTS COLLEGE FOR WOMEN**  
 (Accredited with 'A' Grade by NAAC)  
 An Autonomous Institution-Affiliated to Bharathiar University  
 Gobichettipalayam-638476  
 Department of Mathematics (B.Sc)  
 Meeting of Board of Studies in Mathematics

*Agenda*

1. To approve the rules and regulations for the students admitted in B.Sc Programme from 2017-2018 onwards.
2. To approve the Course Scheme and Scheme of examinations for all the six semesters.
3. To approve and adopt the detailed syllabi for part - I Language courses (subjects) for Semester - I and Semester - II
4. To approve and adopt the detailed syllabi for part - II English courses (subjects) for Semester - I and Semester - II
5. To approve the detailed syllabi for part - III Core courses (subjects) for B.Sc Mathematics for Semester - I and Semester - II
6. To approve the detailed syllabi for the following part - III Allied courses for Semester - I and Semester - II
 

|                               |                                 |
|-------------------------------|---------------------------------|
| ✓ B.B.A.                      | B.Com (Computer Applications)   |
| ✓ B.Sc Computer science       | B.Com (Professional Accounting) |
| ✓ B.Sc Information Technology | B.Com (Accounting & Finance)    |
| ✓ B.C.A.                      | B.Sc Physics                    |
7. To approve and adopt the detailed syllabi for part - III Allied practical courses for Semester: I and Semester - II
8. To adopt the syllabus for Part IV Foundation Course – I : Environmental Studies
9. To approve the syllabus for Part IV Foundation Course – II : Yoga and Value Education prepared by the General Board and recommended by the Curriculum Development Committee for its implementation for all the Undergraduate Students admitted in various programs from the Academic Year 2017-18 and onwards.
10. To approve the Question Paper pattern both CIA and ESE – Theory and practical courses for the Semester - I and Semester - II
11. To recommend panel of members for Question Paper setting and panel of examiners for Practical examination and Central Valuation.
12. Any other matter.

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**An Autonomous Institution-Affiliated to Bharathiar University**

**Gobichettipalayam-638476**

**Department of Mathematics (M.Sc)**

**Meeting of Board of Studies**

***Agenda***

1. To approve the rules and regulations for the students admitted in M.Sc Programme from 2017 – 2018 onwards.
2. To approve the Course Scheme and Scheme of Examinations for all the four semesters.
3. To approve the detailed syllabi of Core courses for M.Sc for Semester: I and Semester: II
4. To approve the detailed syllabi of the Practical courses for the Semester: I
5. To approve the detailed syllabi of the Elective courses for the Semester: I and Semester: II
6. To approve the detailed syllabi of the Skill based courses for Semester: II
7. To approve the detailed syllabi of the Allied courses (M.B.A. & M.C.A.) for Semester: I and Semester: II
8. To approve the Question Paper pattern both CIA and ESE – Theory and Practical courses for the Semester: I and Semester: II
9. To recommend panel of members for Question Paper setting and panel of examiners for Practical examination and Central Valuation.
10. Any other matter.

12/8/17.

The first meeting of the Board of Studies of the Department of Mathematics (UG, PG) was held on 14.08.2017 (Saturday) at 11.30 am in the department. Mrs. R. Jayalakshmi, Head, Department of Mathematics chaired the meeting.

The following members participated in the meeting.

Members Present:

1. Ms. R. Jayalakshmi — Chairperson — R. Jayalakshmi 12/8/17.
2. Dr. S. Narayanasamurthy — University Nominee — S. Narayanasamurthy 12/8/17.
3. Dr. A. Anguraj — Subject Expert - I — A. Anguraj 12/8/2017
4. Ms. S. Keerthana — Industry Representative — S. Keerthana 12.8.17
5. Ms. S. Shantha Kumari — Per Meritorious Alumnus — S. Shantha Kumari 12/8/17
6. Ms. S. A. Dhanalakshmi — Member — S. A. Dhanalakshmi 12/8/17.
7. Ms. M. Karthi — Member — M. Karthi 12/8/17
8. Ms. N. R. Neelavathi — Member — N. R. Neelavathi 12/8/17
9. Ms. P. Sampoornam — Member — P. Sampoornam 12/8/17

The Summary of the discussions and decisions taken on the agenda items during the meeting is as under:

### UGI PROGRAMME:

1. Resolved to approve the rules and regulations for the Students admitted in B.Sc Programme from 2017-2018 onwards.
2. Resolved to approve the Course Scheme and Scheme of Examinations for all six semesters except the Core: VI - Preparation for Competitive Exams under Part: III. It was suggested that Core: VI Preparation for Competitive Exams under Part: III does not relate to the core concepts of Mathematics and shall be considered for replacement.
3. Resolved to approve and adopt the detailed syllabi for part-I Language courses (Subjects) for Semester-I and Semester-II.
4. Resolved to approve and adopt the detailed syllabi for part-II English courses (Subjects) for Semester-I and Semester-II.
5. Resolved to approve the detailed syllabi for part-III Core Courses (Subjects) for B.Sc Mathematics for Semester-I and Semester-II.
6. Resolved to approve the detailed syllabi for part-III Allied Courses for Semester-I and Semester-II.
7. Resolved to approve and adopt the detailed syllabi for part-III Allied practical courses for Semester-I and Semester-II.
8. Resolved to adopt the syllabus for Part-IV Foundation Course-I: Environmental studies.
9. Resolved to approve the syllabus for Part-IV Foundation Course-II: Yoga and Value Education prepared by the General Board and recommended by the Curriculum

Development Committee for its implementation for all the Undergraduate Students admitted in various programme from the Academic Year 2017-2018 and onwards.

10. Resolved to approve the Question Paper pattern with some changes for both CCA and ESE. Theory and Practical Courses for the Semester - I and Semester - II. It was suggested that Questions in open choice under Section - C shall be considered to be changed as either or pattern to give weightage for all the five units.
11. Resolved to recommend panel of members for Question Paper setting and panel of examiners for Practical Examination and Central Valuation.

#### PG PROGRAMME:

1. Resolved to approve the rules and regulations for the Students admitted in M.Sc Programme from 2017-2018 onwards.
2. Resolved to approve the Course scheme and Scheme of Examinations for all the four semesters.
3. Resolved to approve the detailed Syllabi of Core Courses for M.Sc for Semester: I and Semester: II.
4. Resolved to approve the detailed Syllabi of the Practical Courses for the Semester: I.
5. Resolved to approve the detailed Syllabi of the Elective Courses for the Semester: I and Semester: II.
6. Resolved to approve the detailed Syllabi of the Skill based Courses for Semester: II.

7. Resolved to approve the detailed syllabi of the Allied Courses (M.B.A and M.C.A) for Semester : I and Semester : II

8. Resolved to approve the Question Paper pattern with some changes for both CTA and ESE Theory and Practical courses for the Semesters I and Semester : II. It was suggested that Question in section D shall be considered to be changed or removed.

9. Resolved to recommend panel of members for Question Paper setting and panel of examiners for Practical examinations and Central Valuation.

1. Mrs. R. Jayalakshmi R. J. Jayalakshmi 12/8/17

2. Dr. S. Narayanamoorthy S. Narayanamoorthy 12/8/17

3. Dr. A. Anguraj A. Anguraj 12/8/2017

4. Ms. S. Keerthana S. Keerthana 12/8/17

5. Mr. J. S. Shantha Kumari J. S. Shantha Kumari 12/8/17

6. Mr. S.A. Dharamakishmi S.A. Dharamakishmi 12/8/17

7. Mr. H. Kasthuri H. Kasthuri 12/8/17

8. Ms. N.R. Neelavathi N.R. Neelavathi 12/8/17

9. Ms. P. Sampooram P. Sampooram 12/8/17

S. A. Dharamakishmi  
12/8/17

7.4.18

**P.K.R ARTS COLLEGE FOR WOMEN**  
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An Autonomous Institution-Affiliated to Bharathiar University  
Gobichettipalayam-638476  
Department of Mathematics (B.Sc)

**MEETING OF BOARD OF STUDIES IN MATHEMATICS****Date: 07.04.2018****Time: 10.00 a.m.****Venue: Mathematics Department****AGENDA**

1. Confirmation of the minutes of the first meeting of the Board of studies held on 12.08.2017
2. Consideration and approval of the Action taken report on the resolutions passed in the previous meeting held on 30.07.2017
3. Ratification of revision on the Course scheme and scheme of examinations of the Academic Year 2017-18
4. To approve the syllabi for all the courses (Subjects) of semester 3 to 6 offered to the UG Students admitted during the Academic year 2017-18 & recommend to Academic Council
5. To approve the syllabi for all the courses (Subjects) of semester 1 to 6 offered to the UG students admitted during the Academic year 2018-19 & recommend to Academic Council
6. To approve the Question Paper pattern for both CIA tests and ESE – Theory and practical / project/ Institutional training etc courses.
7. To recommend panel of members of QP setting and panel of examiners for practical examinations and central valuation.
8. Any other item

7.4.18

11

**P.K.R ARTS COLLEGE FOR WOMEN**  
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An Autonomous Institution-Affiliated to Bharathiar University  
Gobichettipalayam-638476

**Department of Mathematics (M.Sc)**  
**MEETING OF BOARD OF STUDIES IN MATHEMATICS**

**Date:07.04.2018**

**Time: 10.00 a.m.**

**Venue: MATHEMATICS DEPARTMENT**

**AGENDA**

1. Confirmation of the minutes of the first meeting of the Board of studies held on 12.08.2017
2. Consideration and approval of the Action taken report on the resolutions passed in the previous meeting held on 30.08.2017.
3. Ratification of revision on the Course scheme and scheme of examinations of the Academic Year 2017-18
4. To approve the syllabi for all the courses (Subjects) of semester 3 to 4 offered to the PG students admitted during the Academic year 2017-18 & recommend to Academic Council
5. To approve the syllabi for all the courses (Subjects) of semester 1 to 4 offered to the PG students admitted during the Academic year 2018-19 & recommend to Academic Council
6. To approve the Question Paper pattern for both CIA tests and ESE – Theory and practical / project/ Institutional training etc courses.
7. To recommend panel of members of QP setting and panel of examiners for practical examinations and central valuation.
8. Any other item

7.4.18

The second meeting of the Combined Board of Studies (UG, PG) meeting of the Mathematics Department was held on 7<sup>th</sup> April 2018 at 10.00am in the department. Prof. R. Jayalakshmi Chairman (BOS) and Head (Academic) chaired the meeting and welcomed all the members to the meeting.

Members Present:

1. Prof. R. Jayalakshmi - Chairperson - R. Jayalakshmi 7/4/18
2. Dr. S. Narayanamorthy - University Nominee - S. Narayanamorthy 7/4/18
3. Dr. R. Parvathi - Subject Expert - R. Parvathi 07/04/18
4. Ms. S. Kesathana - Industry Representative - S. Kesathana
5. Ms. S. Shantha Kumari - PG Meritorious - S. Shantha Kumari 7/4/18
6. Prof. S.A. Dhanalakshmi - Member - S.A. Dhanalakshmi 7/4/18
7. Prof. M. Karthi - Member - M. Karthi 7/4/18
8. Prof. N.R. Neelavathi - Member - N.R. Neelavathi 7/4/18
9. Prof. P. Sampurnam - Member - P. Sampurnam 7/4/18

7/4/18

The minutes of previous BOS meeting were reviewed and approved as there were no comments from members.

The summary of the discussions and decisions taken on the agenda items during the meeting is as under:

#### UoA Programme:

1. Confirmed the minutes of the first meeting of the Board of studies held on 12.08.2017.
2. Considered and approved the Action taken report on the resolutions passed in the previous meeting held on 30.8.2017.
3. Sanctioned the revision of the Course scheme and scheme of Examinations of the Academic Year 2017-2018.
4. Resolved to approve the syllabi for all courses (subjects) of semester III to VI offered to the UoA students admitted during the Academic year 2017-2018 and recommend to Academic Council.
5. Resolved to approve the Syllabi for all the courses (subjects) of semester I to VI offered to the UoA students admitted during the Academic year 2018-2019 and recommend to Academic Council.
6. Resolved to approve the Question Paper Pattern for both CIA test and ESE - Theory and practical / project / Institutional training etc courses.

T/K/18

7. Resolved to recommend panel of members of Q.P. setting and panel of examiners for practical examinations and central valuation

### PG Programme

1. Confirmed the minutes of the first meeting of the Board of studies held on 12.08.2017
2. Considered and approved the action taken report on the resolutions passed in the previous meeting held on 20.06.2017
3. Ratified the revision of the course scheme and scheme of examination of the Academic Year 2017-2018
4. Resolved to approve the syllabi for all the Courses (Subjects) of Semester III to IV offered to the PG students admitted during the Academic Year 2017-2018 and recommend to Academic Council with the following changes. It was suggested to remove the paper Programming in C++ and Programming in C++ practical in semester IV. Also suggested to assign six contact hours for the Project and Viva Voce and to allot one hour for the paper Mathematical Methods
5. Resolved to approve the syllabi for all the Courses (Subjects) of Semester I to IV offered to the PG students admitted during the Academic Year 2018-2019 and recommend to Academic Council with the following changes.

7/4/18

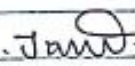
It was suggested to remove the paper Programming in C<sup>+</sup> and Programming in C<sup>++</sup> practical in semester IV.

Also suggested to assign six contact hours for the Project and Viva voce and to allot one <sup>contact</sup> hour for the paper Mathematical Methods.

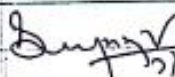
6. Resolved to approve the Question Paper pattern for both CIA tests and ESE - Theory and Practical/Project/Institutional training etc courses.

7. Resolved to recommend panel of members of AP Setting and panel of examiners for practical examinations and Central Valuation.

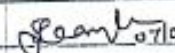
### 1. Members Signature.

1. R. Jai  7/4/18

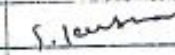
R. JAYALAKSHMI

2.  7/4/18

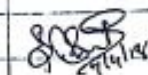
DR. S. NARAYANAMOORTHY

3.  07/04/18

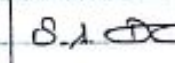
DR. R. PARVATHI

4.  7/4/18

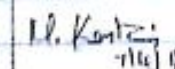
KEERTHANA S

5.  7/4/18

S. SHANMUGAM

6.  7/4/18

S. A. PHANILAKSHMI

7.  7/4/18

M. KASTHURI

7/2/18

N. R. N EELAVATHI

P. SAMPOORNAM

PRINCIPAL I/C  
P.K.R. ARTS COLLEGE FOR WOMEN  
(AUTONOMOUS)  
GOBICHETTIPALAYAM.

7/4/19

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**Department of Mathematics**  
**MEETING OF BOARD OF STUDIES IN MATHEMATICS**

**Date: 09.04.2019**

**Time: 10.00 a.m.**

**Venue: Mathematics Department**

**AGENDA**

1. Confirmation of the minutes of the meeting of Board of studies held on 07.04.2018.
2. Approval of the Action taken on the resolutions passed in the previous meeting held on 12.04.2018.
3. Ratification of revision on the Course scheme and scheme of examinations of the Academic Year 2019 – 2020.
4. To approve the minor changes in the syllabus.
5. To recommend fresh panel of members for QP setting and panel of examiners for practical examinations and central valuation.
6. Any other item

9/4/2019

The third meeting of the Combined Board of Studies (UG, PG) meeting of the Mathematics Department was held on 9<sup>th</sup> April 2019 at 10.00 a.m. in the department. Prof. R. Jayalakshmi, Chairman (BOS) and Head (Academic) chaired the meeting and welcomed all the members to the meeting.

### Members Present.

1. Prof. R. Jayalakshmi - chairperson. - R. Jayalakshmi 9/4/19
2. Ms. S. Shanthakumari - PG Meritorious Alumnus. - S. Shanthakumari 9/4/19
3. Prof. C.A. Dhanalakshmi - Member. - C.A. Dhanalakshmi 9/4/19
4. Dr. M. Kasthuri - Member. - M. Kasthuri 9/4/19
5. Prof. N.R. Neelavathi - Member. - N. Neelavathi 9/4/19
6. Prof. P. Sampooram - Member. - P. Sampooram 9/4/19

The minutes of previous BOS meeting were reviewed and approved as there were no comments from members.

The summary of the discussions and decisions taken on the agenda items during the meeting is as under:

### 9/4/2019 UG Programme:

1. Confirmed the minutes of the meeting of Board of Studies held on 07/04/2018
2. Considered and approved the action taken on the resolutions passed in the previous meeting held on 12/04/2018
3. Ratified the revision on the Course Scheme and Scheme of examinations of the Academic Year 2019-2020
4. Resolved to approve the syllabi for all the courses/subjects of all six semesters offered to the UG students admitted during the Academic Year 2019-2020 and recommend to Academic Council.
5. Resolved to recommend fresh panel of members for Question paper setting and panel of examiners for practical examinations and Central Valuation.

### PG Programme

1. Confirmed the minutes of the meeting of Board of Studies held on 07/04/2018
2. Considered and approved the action taken on the resolutions passed in the previous meeting held on 12/04/2018
3. Ratified the revision on the Course Scheme and Scheme of examinations of the Academic Year 2019-2020

9/4/2019

4. Resolved to approve the syllabi for all the Courses (Subjects) of all four semester offered to the PG Students admitted during the Academic Year 2019-2020 and recommend to Academic Council.
5. Resolved to recommend fresh panel of members for Question paper setting and panel of examiners for practical examinations and Central Valuation.

## Members Signature

1. Mrs. R. Jayalakshmi - R. Janu 9/4/19

2. Mrs. C. Shantha Kumari - C. Shantha Kumari

3. Mrs. S.A. Dhonalakshmi - S.A. Dhonalakshmi 9/4/19.

4. Dr. M. Karthi - M. Karthi 9/4/19.

5. Mrs. N.R. Neelavathi - N. Neelavathi 9/4/19

6. Mrs. P. Sampath - P. Sampath 9/4/19

Principal  
 P.K.R. Arts College for Women  
 (Autonomous)  
 Gobichettipalayam - 638 476  
 Erode District.

**P.K.R. ARTS COLLEGE FOR WOMEN**  
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No: 21, Pariyur Road, Gobichenipalayam-638 476.

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**MEETING OF BOARD OF STUDIES IN MATHEMATICS**

**PROGRAMME: B.Sc. Mathematics**

**Date: 01.07.2020**

**Time: 10.30 A.M**

**Venue: Online - Google Meet**

**AGENDA**

1. Confirmation of the minutes of the meeting of Board of studies held on 9.04.2019.
2. Approval of the Action taken on the resolutions passed in the previous meeting held on 9.04.2019.
3. Ratification of course scheme, syllabus and scheme of evaluation for 2018-2019 and 2019-2020.
4. To approve the minor changes in course structure
5. To approve the course Structure, scheme of Examination, syllabus and scheme of evaluation for 2020-2021.
6. Revision of guidelines of UG programme (AEC, SEC, Life skills)
7. To approve the Value added courses to be incorporated during the academic year 2020-2021.
8. Introduction of Life skills course for 2020-2021 batch onwards (Course Scheme and Scheme of Evaluation)
9. To recommend fresh panel of members for QP setting and panel of examiners for practical examinations and central valuation.
10. Any other matters.

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**MEETING OF BOARD OF STUDIES IN MATHEMATICS**

**PROGRAMME :M.Sc Mathematics**

**Date: 01.07.2020**

**Time: 10.30 A.M.**

**Venue: Online - Google Meet**

**AGENDA**

1. Confirmation of the minutes of the meeting of Board of studies held on 9.04.2019.
2. Approval of the Action taken on the resolutions passed in the previous meeting held on 9.04.2019.
3. Ratification of course scheme, syllabus and scheme of evaluation for 2018-2019 and 2019-2020.
4. To approve the minor changes in course structure
5. Revision of guidelines .
6. To approve the Course Structure, Scheme of Examination ,syllabus and scheme of evaluation for 2020-2021.
7. To approve the Value added courses to be incorporated during the academic year 2020-2021.
8. To recommend fresh panel of members for QP setting and panel of examiners for practical examinations and central valuation.
9. Any other matters.

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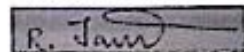
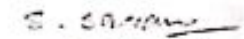
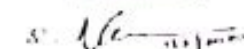
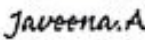
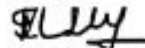
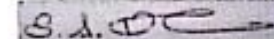
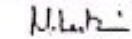
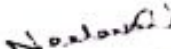
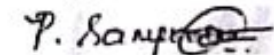
**MEETING OF BOARD OF STUDIES IN MATHEMATICS**

The fourth meeting of the combined Board of studies (UG,PG) meeting of the Mathematics Department was held on 1<sup>st</sup> July 2020 at 10.30 am through Online-Google Meet due to the pandemic situation COVID19. Prof. R.Jayalakshmi Chairman (BOS) and Head (Academic) chaired the meeting and welcomed all the members to the meeting and in her introductory remarks she presented the agenda of the meeting.

**MEMBERS PRESENT**

- |                            |                           |
|----------------------------|---------------------------|
| 1.Prof. R.Jayalakshmi      | - Chairperson             |
| 2.Prof. S. Saravanan       | - University Nominee      |
| 3.Dr. D.Vijayalakshmi      | - Subject Expert          |
| 4.Dr.S.Nagarajan           | - Subject Expert          |
| 5. Ms.A.Javeena            | - Industry Representative |
| 6.Ms.I.ChandraMani         | - PG Meritorious Alumnus  |
| 7. Prof. S.A. Dhanalakshmi | - Member                  |
| 8. Dr.M.Kasthuri           | - Member                  |
| 9. Prof. N.R Neelavathi    | - Member                  |
| 10. Prof. P.Sampoornam     | - Member                  |

**SIGNATURE**

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The minutes of the previous BOS meeting were reviewed and approved as there were no comments from the members.

The summary of the discussions and decisions taken on the agenda items during the meeting is as under

**UG Programme :B.Sc**

1. Resolved to confirm the minutes of the meeting of Board of studies held on 9 04 2019

2. Resolved to approve the Action taken on the resolutions passed in the previous meeting held on 9.04.2019.
3. Resolved to ratify the course scheme, syllabus and scheme of evaluation for the academic year 2018-2019 and 2019-2020.
4. Resolved to approve the minor changes in course structure.
5. Resolved to approve the course structure, scheme of examinations, syllabus and scheme of evaluation for the Academic year 2020-2021 and recommend to academic council.
6. Resolved to revise the guidelines of UG programme (AEC, SEC, Life skills)
7. Resolved to approve the Value added courses to be incorporated during the academic year 2020-2021.
8. Resolved to introduce the Life skills course for 2020-2021 batch onwards (Course Scheme and Scheme of Evaluation)
9. Resolved to recommend fresh panel of members for QP setting and panel of examiners for practical examinations and central valuation.

**PG Programme:M.Sc**

1. Resolved to confirm the minutes of the meeting of Board of studies held on 9.04.2019.
2. Resolved to approve the Action taken on the resolutions passed in the previous meeting held on 9.04.2019 .
3. Resolved to ratify the course scheme, syllabus and scheme of evaluation for 2018-2019 and 2019-2020.
4. Resolved to approve the minor changes in course structure.
5. Resolved to revise the guidelines.
6. Resolved to approve the course structure, scheme of examination, syllabus and scheme of evaluation for the Academic year 2020-2021 and recommend to academic council with the following changes

It was suggested to change the Elective course I ' Measure Theory and Integration' as Core course IV and Core course IV ' Numerical Analysis 'as Elective course I in semester I. Also suggested to change Elective course II 'Differential Geometry' as Core course X and Core course X 'Mathematical statistics' as Elective course II in II semester.

7. Resolved to approve the Value added courses to be incorporated during the academic year 2020-2021.

8. Resolved to recommend fresh panel of members for QP setting and panel of examiners for practical examinations and central valuation.

The University Nominee insisted that the college syllabus should be modified in such a way that it contains at least 75% of the content (unit wise) from SIBOS Mathematics syllabus.

- \* The scheme of examination for PG programme in the year 2020-2021 is given below

**P.K.R ARTS COLLEGE FOR WOMEN**

(Accredited with 'A' Grade by NAAC)

Autonomous Institution – Affiliated to Bharathiar University

No.:21 Pariyur Road, GOBICHETTIPALAYAM – 638476.

**MASTER OF MATHEMATICS**

Course Scheme and Scheme of Examinations

(For students admitted from 2020-2021 and onwards)

| Category     | Title of the Course               | Contact Hrs/ week | Exam Duration<br>hrs. | Max.Marks |     |       | Credits |
|--------------|-----------------------------------|-------------------|-----------------------|-----------|-----|-------|---------|
|              |                                   |                   |                       | CIA       | ESE | Total |         |
| SEMESTER – I |                                   |                   |                       |           |     |       |         |
| Core: I      | Advanced Algebra                  | 6                 | 3                     | 25        | 75  | 100   | 4       |
| Core :II     | Real Analysis                     | 6                 | 3                     | 25        | 75  | 100   | 4       |
| Core : III   | Ordinary Differential Equations   | 6                 | 3                     | 25        | 75  | 100   | 4       |
| Core : IV    | Measure Theory and Integration    | 5                 | 3                     | 25        | 75  | 100   | 4       |
| Elective I   | Numerical Analysis                | 5                 | 3                     | 25        | 75  | 100   | 4       |
|              | Control Theory                    |                   |                       |           |     |       |         |
| Core : V     | Programming in Python – Practical | 2                 | 3                     | 40        | 60  | 100   | 2       |

|           |                                                                    |    |                |   |     |     |    |
|-----------|--------------------------------------------------------------------|----|----------------|---|-----|-----|----|
| Core : VI | Comprehension in Mathematics – I (Self Study Course - Online Exam) | -  | $1\frac{1}{2}$ | - | 100 | 100 | 1  |
|           |                                                                    | 30 |                |   |     | 700 | 23 |

#### SEMESTER – II

|                       |                                                                             |    |                |     |     |            |           |
|-----------------------|-----------------------------------------------------------------------------|----|----------------|-----|-----|------------|-----------|
| Core :VII             | Complex Analysis                                                            | 6  | 3              | 25  | 75  | 100        | 4         |
| Core : VIII           | Partial Differential Equations                                              | 5  | 3              | 25  | 75  | 100        | 4         |
| Core : IX             | Classical Mechanics                                                         | 5  | 3              | 25  | 75  | 100        | 4         |
| Core :X               | Differential Geometry                                                       | 5  | 3              | 25  | 75  | 100        | 4         |
| Elective II           | Mathematical Statistics Programming in C++                                  | 5  | 3              | 25  | 75  | 100        | 4         |
| Elective-II Practical | Mathematical Software – I (SPSS) – Practical Programming in C++ - Practical | 2  | 3              | 40  | 60  | 100        | 2         |
| Ability Enhancement   | Cyber Security                                                              | 2  | 3              | 100 | -   | 100        | 2         |
| Core : XII            | Comprehension in Mathematics – II (Self Study Course - Online Exam)         | -  | $1\frac{1}{2}$ | -   | 100 | 100        | 1         |
|                       | <b>TOTAL</b>                                                                | 30 |                |     |     | <b>800</b> | <b>25</b> |

#### SEMESTER – III

|                         |                                                     |   |   |    |     |     |   |
|-------------------------|-----------------------------------------------------|---|---|----|-----|-----|---|
| Core : XIII             | Topology                                            | 6 | 3 | 25 | 75  | 100 | 5 |
| Core : XIV              | Theory of Numbers                                   | 6 | 3 | 25 | 75  | 100 | 5 |
| Core : XV               | Optimization Techniques                             | 6 | 3 | 25 | 75  | 100 | 4 |
| Core : XVI              | Mathematical Software – II (R Software) - Practical | 2 | 3 | 40 | 60  | 100 | 2 |
| Open Elective           | <b>OPTIONAL</b>                                     | 4 | 3 | 25 | 75  | 100 | 3 |
| Proficiency Enhancement | Industrial Mathematics (Self Study)                 | - | 3 | -  | 100 | 100 | 2 |

|                                               |                                                                               |                                        |                |    |     |            |            |
|-----------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------|----------------|----|-----|------------|------------|
| Elective III                                  | Graph Theory<br>Neural Networks                                               | 6                                      | 3              | 25 | 75  | 100        | 4          |
| Core : XVII                                   | Comprehension in<br>Mathematics – III (Self<br>Study Course - Online<br>Exam) | -                                      | $1\frac{1}{2}$ | -  | 100 | 100        | 1          |
|                                               | <b>TOTAL</b>                                                                  | <b>30</b>                              |                |    |     | <b>800</b> | <b>26</b>  |
| <b>SEMESTER – IV</b>                          |                                                                               |                                        |                |    |     |            |            |
| Core :XVIII                                   | Functional Analysis                                                           | 6                                      | 3              | 25 | 75  | 100        | 5          |
| Core: XIX                                     | Mathematical Methods                                                          | 6                                      | 3              | 25 | 75  | 100        | 4          |
| Core :XX                                      | Fluid Dynamics                                                                | 6                                      | 3              | 25 | 75  | 100        | 4          |
| Core : XXI                                    | Project Work & Viva Voce                                                      | 6                                      | 3              | 20 | 80  | 100        | 4          |
| Elective IV                                   | Fuzzy Logic and Fuzzy Sets<br>Actuarial Mathematics                           | 6                                      | 3              | 25 | 75  | 100        | 4          |
| Core :XXII                                    | Comprehension in<br>Mathematics – IV (Self<br>Study Course - Online<br>Exam)  | -                                      | $1\frac{1}{2}$ | -  | 100 | 100        | 1          |
|                                               |                                                                               | <b>30</b>                              |                |    |     | <b>600</b> | <b>22</b>  |
| Online Course / Learning<br>Object Repository |                                                                               | I – IV SEMSTER                         |                |    |     |            | <b>2</b>   |
| Certificate Course                            |                                                                               | I - IV SEMESTER                        |                |    |     |            | <b>2</b>   |
|                                               |                                                                               | <b>Total Marks -2900 Credits - 100</b> |                |    |     |            | <b>100</b> |

## MEMBERS

1. Prof R. Jayalakshmi
2. Prof S. Saravanan
3. Dr. D. Vijayalakshmi
4. Dr. S. Nagarajan
5. Ms. A. Javeena
6. Ms. I. ChandraMani
7. Prof S. A. Dhanalakshmi
8. Dr. M. Kasthuri
9. Prof N. R. Neelavathi
10. Prof P. Sampooram

DATE : 01.07.2020

## SIGNATURE

R. Jayalakshmi

S. Saravanan

D. Vijayalakshmi

S. Nagarajan

A. Javeena

I. ChandraMani

S. A. Dhanalakshmi

M. Kasthuri

N. R. Neelavathi

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R. Jayalakshmi 1/7/2020

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