

A.S.D. GOVERNMENT DEGREE COLLEGE FOR WOMEN(A), KAKINADA

DEPARTMENT OF MATHEMATICS

ACADEMIC YEAR - 2021-22

LIST OF COURSES OFFERED

| Yr. | Course & Theory | Paper | Title                                                                                                       | Workload Hrs / Week | Credits | Max. Marks |        |       |
|-----|-----------------|-------|-------------------------------------------------------------------------------------------------------------|---------------------|---------|------------|--------|-------|
|     |                 |       |                                                                                                             |                     |         | IA         | Extrnl | Total |
| I   | Sem I           | I     | Differential Equations                                                                                      | 6Hrs                | 5       | 25         | 75     | 100   |
|     |                 | II    | Analytical Solid Geometry                                                                                   | 6 Hrs               | 5       | 25         | 75     | 100   |
| II  | Sem III         | III   | Abstract Algebra                                                                                            | 6Hrs                | 5       | 25         | 75     | 100   |
|     |                 | Skill | Analytical Skills                                                                                           | 6 Hrs               | 5       | 25         | 75     | 100   |
|     | Sem IV          | IV    | Real Analysis                                                                                               | 6 Hrs               | 5       | 25         | 75     | 100   |
|     |                 | V     | Linear Algebra                                                                                              | 6 Hrs               | 5       | 25         | 75     | 100   |
|     |                 |       |                                                                                                             |                     |         |            |        |       |
| III | Sem V           | VI A  | Elective ⊗any one)<br>(A)Laplace Transforms<br>(B)Numerical Methods<br>(C)Number Theory<br>(D) Graph Theory | 5 Hrs               | 5       | 25         | 75     | 100   |
|     |                 | VII A | Cluster Electives                                                                                           | 5 Hrs               | 5       | 25         | 75     | 100   |
|     |                 |       | A-1 Integral Transforms                                                                                     | 5 Hrs               | 5       | 25         | 75     | 100   |
|     |                 |       | <b>A-2 Special Functions</b>                                                                                | 5 Hrs               | 5       | 25         | 75     | 100   |
|     |                 |       | A-3 Project Work                                                                                            | 5 Hrs               | 5       | 50         | 50     | 100   |
|     |                 | VII B | B-1Advance Numerical Analysis                                                                               | 5 Hrs               | 5       | 25         | 75     | 100   |
|     |                 |       | <b>B-2Special Functions</b>                                                                                 | 5 Hrs               | 5       | 25         | 75     | 100   |
|     |                 |       | B-3 Project Work                                                                                            | 5 Hrs               | 5       | 50         | 50     | 100   |

|  |  |     |                            |       |   |    |    |     |
|--|--|-----|----------------------------|-------|---|----|----|-----|
|  |  | VIC | C1-Principals Of Mechanics | 5 Hrs | 5 | 25 | 75 | 100 |
|  |  |     | C2- Fluid Mechanics        | 5 Hrs | 5 | 25 | 75 | 100 |
|  |  |     | C3-Project                 | 5 Hrs | 5 | 50 | 50 | 100 |
|  |  | VID | D1-Graph Theory            | 5 Hrs | 5 | 25 | 75 | 100 |
|  |  |     | D2-Applied Graph Theory    | 5 Hrs | 5 | 25 | 75 | 100 |
|  |  |     | D3 Project work            | 5 Hrs | 5 | 50 | 50 | 100 |