



# SEETHALAKSHMI RAMASWAMI COLLEGE

(Autonomous)

Affiliated to Bharathidasan University  
Tiruchirappalli

Accredited with A+ by NAAC (4<sup>th</sup> Cycle)



B.Sc. Chemistry

CBCS-OBE-LOCF Curriculum Structure

(For students admitted from 2024 onwards)

| SEM          | PART         | COURSE                 | COURSE CODE | COURSE TITLE  | HRS       | CRD       | INT/ EXT  | CIA | SE | TOT        |
|--------------|--------------|------------------------|-------------|---|-----------|-----------|-----------|-----|----|------------|
| <b>I</b>     | I            | Language-I             |             | Course-I  | 6         | 3         | EXT       | 25  | 75 | 100        |
|              | II           | English-I              |             | Course-I  | 6         | 3         | EXT       | 25  | 75 | 100        |
|              | III          | Core Course-I          |             | Inorganic, Organic and Physical Chemistry-I                                       | 7         | 5         | EXT       | 25  | 75 | 100        |
|              | III          | Core Practical-I       |             | Practical-I: Volumetric Analysis  | 3         | -         | INT       | -   | -  | -          |
|              | III          | First Allied Course-I  |             | Offered by the Department of Physics  | 4         | 3         | EXT       | 25  | 75 | 100        |
|              | III          | First Allied Practical |             | Offered by the Department of Physics  | 2         | -         | INT       | -   | -  | -          |
|              | IV           | VBE                    |             | Value Based Education   | 2         | 2         | EXT       | 25  | 75 | 100        |
| <b>Total</b> |              |                        |             |   | <b>30</b> | <b>16</b> |           |     |    | <b>500</b> |
| <b>II</b>    | I            | Language-II            |             | Course-II   | 6         | 3         | EXT       | 25  | 75 | 100        |
|              | II           | English-II             |             | Course-II   | 6         | 3         | EXT       | 25  | 75 | 100        |
|              | III          | Core Course-II         |             | Inorganic, Organic and Physical Chemistry-II                                      | 7         | 6         | EXT       | 25  | 75 | 100        |
|              | III          | Core Practical-I       |             | Practical-I: Volumetric Analysis  | 3         | 4         | INT       | 40  | 60 | 100        |
|              | III          | First Allied Course-II |             | Offered by the Department of Physics  | 4         | 3         | EXT       | 25  | 75 | 100        |
|              | III          | First Allied Practical |             | Offered by the Department of Physics  | 2         | 3         | INT       | 40  | 60 | 100        |
|              | IV           | EVS                    |             | Environmental Studies   | 2         | 2         | EXT       | 25  | 75 | 100        |
|              | <b>Total</b> |                        |             |   |           | <b>30</b> | <b>24</b> |     |    |            |
|              |              | EXTRA CREDIT COURSE    |             | Communicative and Functional English offered by Department of English (MANDATORY) | 2         | 2         | INT       | 25  | 75 | 100        |

| SEM        | PART         | COURSE                  | COURSE CODE         | COURSE TITLE   | HRS  | CRD       | INT/ EXT  | CIA | SE | TOT |            |
|------------|--------------|-------------------------|---------------------|--|--|-----------|-----------|-----|----|-----|------------|
| <b>III</b> | I            | Language-III            |                     | Course-III   | 6  | 3         | EXT       | 25  | 75 | 100 |            |
|            | II           | English-III             |                     | Course-III   | 6  | 3         | EXT       | 25  | 75 | 100 |            |
|            | III          | Core Course-III         |                     | Inorganic, Organic and Physical Chemistry-III  | 6  | 6         | EXT       | 25  | 75 | 100 |            |
|            | III          | Core Practical-II       |                     | Practical-II:Semimicro Analysis  | 2  | -         | INT       | -   | -  | -   |            |
|            | III          | Second Allied Course-I  |                     | Offered by the Department of Mathematics/Botany  | 4+2 / 4  | 3         | EXT       | 25  | 75 | 100 |            |
|            | III          | Second Allied Practical |                     | Offered by the Department of Botany  | 2  | -         | INT       | -   | -  | -   |            |
|            | IV           | NME-I*                  |                     | Offered by other Departments   | 2  | 2         | EXT       | 25  | 75 | 100 |            |
|            | IV           | SBE-I                   |                     | Chemistry of Commercial products   | 2  | 2         | EXT       | 25  | 75 | 100 |            |
|            | <b>Total</b> |                         |                     |  |  | <b>30</b> | <b>19</b> |     |    |     | <b>600</b> |
|            |              |                         | EXTRA CREDIT COURSE |  | Internship-I(II Semester vacation) <b>Online/Offline - Certificate, Report &amp; Photo (MANDATORY)</b> | -         | 1         | INT | -  | -   | 100        |
|            |              |                         |                     | Community Outreach Activity (II Semester vacation <b>-Report, Photo &amp; Feedback) (OPTIONAL)</b> | -  | 1         | INT       | -   | -  | 100 |            |

| SEM | PART         | COURSE                  | COURSE CODE         | COURSE TITLE   | HRS   | CRD       | INT/ EXT  | CIA | SE | TOT |            |
|-----|--------------|-------------------------|---------------------|--|---|-----------|-----------|-----|----|-----|------------|
| IV  | I            | Language-IV             |                     | Course-IV  | 6   | 3         | EXT       | 25  | 75 | 100 |            |
|     | II           | English-IV              |                     | Course-IV  | 6   | 3         | EXT       | 25  | 75 | 100 |            |
|     | III          | Core Course-IV          |                     | Inorganic, Organic and Physical Chemistry-IV   | 6   | 6         | EXT       | 25  | 75 | 100 |            |
|     | III          | Core Practical-II       |                     | Practical-II:Semimicro Analysis  | 2   | 4         | INT       | 40  | 60 | 100 |            |
|     | III          | Second Allied Course-II |                     | Offered by the Department of Mathematics/Botany  | 4   | 3         | EXT       | 25  | 75 | 100 |            |
|     | III          | Second Allied Practical |                     | Offered by the Department of Mathematics/Botany  | 2 / 2   | 3 / 3     | INT       | 40  | 60 | 100 |            |
|     | IV           | NME-II*                 |                     | Offered by other Departments   | 2   | 2         | EXT       | 25  | 75 | 100 |            |
|     | IV           | SBE-II                  |                     | Phytochemistry   | 2   | 2         | EXT       | 25  | 75 | 100 |            |
|     | <b>Total</b> |                         |                     |  |   | <b>30</b> | <b>26</b> |     |    |     | <b>800</b> |
|     |              |                         | EXTRA CREDIT COURSE |  | Certificate Course (IKS)-<br><b>Offered by other Departments (beyond class hours) (MANDATORY)</b> | 2         | 2         | INT | 25 | 75  | 100        |
|     |              |                         |                     | Office Automation<br><b>(MANDATORY)</b>  | 2   | 2         | INT       | 25  | 75 | 100 |            |
|     |              |                         |                     | Internship-II(III Semester vacation) <b>Online/Offline -Certificate, Report &amp; Photo (OPTIONAL)</b> | -   | 1         | INT       | -   | -  | 100 |            |

\* Offered by the Department to the students of other disciplines

| SEM | PART | COURSE             | COURSE CODE         | COURSE TITLE  | HRS  | CRD       | INT/ EXT | CIA | SE | TOT        |     |
|-----|------|--------------------|---------------------|---|--|-----------|----------|-----|----|------------|-----|
| V   | III  | Core Course-V      |                     | Inorganic Chemistry   | 5  | 5         | EXT      | 25  | 75 | 100        |     |
|     | III  | Core Course-VI     |                     | Organic Chemistry-I   | 5  | 5         | EXT      | 25  | 75 | 100        |     |
|     | III  | Core Course-VII    |                     | Physical Chemistry-I  | 5  | 5         | EXT      | 25  | 75 | 100        |     |
|     | III  | Core Practical-III |                     | Practical-III:Gravimetric Estimation and Organic Analysis         | 6  | 5         | INT      | 40  | 60 | 100        |     |
|     | III  | MBE-I              |                     | C and C++ Languages in Chemistry                                  | 5  | 4         | EXT      | 25  | 75 | 100        |     |
|     | IV   | SBE-III            |                     | Polymer Chemistry   | 2  | 2         | EXT      | 25  | 75 | 100        |     |
|     | IV   | SSD                |                     | Soft Skill Development  | 2  | 2         | INT      | 25  | 75 | 100        |     |
|     |      |                    |                     | <b>Total</b>  | <b>30</b>  | <b>28</b> |          |     |    | <b>700</b> |     |
|     |      |                    | EXTRA CREDIT COURSE |   | Value Added Course- Offered to the same department (beyond class hours) (MANDATORY)                    | 2         | 2        | INT | 25 | 75         | 100 |
|     |      |                    |                     |   | Web Designing (MANDATORY)  | 2         | 2        | INT | 25 | 75         | 100 |
|     |      |                    |                     |   | Internship-III (IV Semester vacation) <b>Online/Offline-Certificate, Report &amp; Photo (OPTIONAL)</b> | -         | 1        | INT | -  | -          | 100 |
|     |      |                    |                     | Online Course (MOOC/ Swayam / NPTEL)-Before V Semester (OPTIONAL) | -  | 2         | INT      | -   | -  | 100        |     |

| SEM | PART               | COURSE              | COURSE CODE | COURSE TITLE  | HRS | CRD        | INT/ EXT   | CIA | SE | TOT |             |
|-----|--------------------|---------------------|-------------|---|-----|------------|------------|-----|----|-----|-------------|
| VI  | III                | Core Course-VIII    |             | Organic Chemistry-II  | 5   | 5          | EXT        | 25  | 75 | 100 |             |
|     | III                | Core Course-IX      |             | Physical Chemistry-II   | 5   | 5          | EXT        | 25  | 75 | 100 |             |
|     | III                | Core Practical-IV   |             | Practical-IV:Experimental Techniques in Physical Chemistry  | 6   | 4          | INT        | 40  | 60 | 100 |             |
|     | III                | MBE-II              |             | Selected Topics in Inorganic Chemistry  | 5   | 4          | EXT        | 25  | 75 | 100 |             |
|     | III                | MBE-III             |             | Biochemistry/<br>Pharmaceutical Chemistry   | 5   | 4          | EXT        | 25  | 75 | 100 |             |
|     | III                | Project             |             | Group project   | 3   | 3          | EXT        | 20  | 80 | 100 |             |
|     | V                  | GS                  |             | Gender Studies  | 1   | 1          | INT        | 25  | 75 | 100 |             |
|     | V                  | Extension           |             | Extension Activities (NSS/NCC/YRC/Sports and Exnora)  | -   | 1          | INT        | -   | -  | 100 |             |
|     | <b>Total</b>       |                     |             |   |     | <b>30</b>  | <b>27</b>  |     |    |     | <b>800</b>  |
|     | <b>Grand Total</b> |                     |             |   |     | <b>180</b> | <b>140</b> |     |    |     | <b>4100</b> |
|     |                    | EXTRA CREDIT COURSE |             | Capacity Building for Enhancing Professional Skills- <b>Offered by the Department (MANDATORY)</b> | 2   | 2          | INT        | -   | -  | 100 |             |
|     |                    |                     |             | Internet Concepts <b>(MANDATORY)</b>  | 2   | 2          | INT        | 25  | 75 | 100 |             |

| <b>TOTAL DISTRIBUTION OF HOURS, CREDITS &amp; MARKS FOR UG PROGRAMME</b> |              |                |                    |
|--|--------------|----------------|--------------------|
| <b>SEMESTER</b>  | <b>HOURS</b> | <b>CREDITS</b> | <b>TOTAL MARKS</b> |
| I  | 30           | 16             | 500                |
| II   | 30           | 24             | 700                |
| III  | 30           | 19             | 600                |
| IV   | 30           | 26             | 800                |
| V  | 30           | 28             | 700                |
| VI   | 30           | 27             | 800                |
| <b>TOTAL</b>   | <b>180</b>   | <b>140</b>     | <b>4100</b>        |

**ALLIED COURSES OFFERED TO OTHER DEPARTMENTS****For Botany & Zoology Majors**

| SEM | PART | COURSE                 | COURSE CODE | COURSE TITLE   | HRS | CRD | INT/EXT | CIA | SE | TOT |
|-----|------|------------------------|-------------|--|-----|-----|---------|-----|----|-----|
| I   | III  | First Allied Course-I  |             | Chemistry for Biologists-I   | 4   | 3   | EXT     | 25  | 75 | 100 |
| II  | III  | First Allied Course-II |             | Chemistry for Biologists-II  | 4   | 3   | EXT     | 25  | 75 | 100 |
| II  | III  | First Allied Practical |             | Practical: Volumetric analysis and Simple experimental techniques in Chemistry | 2+2 | 3   | INT     | 40  | 60 | 100 |

**For Home Science Major**

| SEM | PART | COURSE                 | COURSE CODE | COURSE TITLE  | HRS | CRD | INT/EXT | CIA | SE | TOT |
|-----|------|------------------------|-------------|---|-----|-----|---------|-----|----|-----|
| I   | III  | First Allied Course-I  |             | General Chemistry-I   | 4   | 3   | EXT     | 25  | 75 | 100 |
| II  | III  | First Allied Course-II |             | General Chemistry-II  | 4   | 3   | EXT     | 25  | 75 | 100 |
| II  | III  | First Allied Practical |             | Practical: Titrimetric and Analytical techniques in Chemistry | 2+2 | 3   | INT     | 40  | 60 | 100 |

**For Physics Major**

| SEM | PART | COURSE                 | COURSE CODE | COURSE TITLE                                     | HRS | CRD | INT/EXT | CIA | SE | TOT |
|-----|------|------------------------|-------------|--|-----|-----|---------|-----|----|-----|
| I   | III  | First Allied Course-I  |             | Chemistry for Physicists-I                       | 4   | 3   | EXT     | 25  | 75 | 100 |
| II  | III  | First Allied Course-II |             | Chemistry for Physicists-II                      | 4   | 3   | EXT     | 25  | 75 | 100 |
| II  | III  | First Allied Practical |             | Practical: Volumetric and Analytical Experiments | 2+2 | 3   | INT     | 40  | 60 | 100 |

### LIST OF MAJOR BASED ELECTIVE COURSES

| SEM | GROUP                       | COURSE CODE | COURSE TITLE   |
|-----|-----------------------------|-------------|--|
| V   | I (Choose any one course)   |             | (A) <b>C and C++ Languages in Chemistry</b><br>(B) Essential Topics in Chemistry (Optional)  |
| VI  | II (Choose any one course)  |             | (A) <b>Selected Topics in Inorganic Chemistry</b><br>(B) Basics of Nano Chemistry (Optional) |
|     | III (Choose any one course) |             | (A) <b>Biochemistry</b><br>(B) <b>Pharmaceutical Chemistry</b>                               |

### LIST OF SKILL BASED ELECTIVE COURSES

| SEM | GROUP                       | COURSE CODE | COURSE TITLE  |
|-----|-----------------------------|-------------|---|
| III | I (Choose any one course)   |             | (A) <b>Chemistry of Commercial products</b><br>(B) Dyeing Techniques and Water Treatment (Optional) |
| IV  | II (Choose any one course)  |             | (A) <b>Phyto chemistry</b><br>(B) Forensic Science (Optional)                                       |
| V   | III (Choose any one course) |             | (A) <b>Polymer Chemistry</b><br>(B) Selected Topics in Chemistry (Optional)                         |



**NON MAJOR ELECTIVE COURSES OFFERED TO OTHER DEPARTMENTS**

| <b>SEM</b> | <b>COURSE</b> | <b>COURSE CODE</b> | <b>COURSE TITLE</b>             |
|------------|---------------|--------------------|---------------------------------|
| III        | I             |                    | Material Chemistry              |
| IV         | II            |                    | Role of Chemistry in Daily Life |

**VALUE ADDED COURSE**  
*Extra Credit Course for Skill Development*

| <b>SEM</b> | <b>COURSE</b> | <b>COURSE CODE</b> | <b>COURSE TITLE</b>                    |
|------------|---------------|--------------------|--|
| V          | I             |                    | Chemistry for Competitive Examinations |

**CERTIFICATE COURSE OFFERED TO OTHER DEPARTMENTS**  
*Extra Credit Course for Skill Development*

| <b>SEM</b> | <b>COURSE</b> | <b>COURSE CODE</b> | <b>COURSE TITLE</b>                                      |
|------------|---------------|--------------------|--|
| IV         | I             |                    | Chemistry of Metals and Dyes in Ancient and Modern India |

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**TIRUCHIRAPPALLI – 620 002**  
*Accredited with A+ by NAAC (4<sup>th</sup> cycle)*

**B.Sc. Chemistry**  
**(CBCS System)**  
**(For Students admitted from June 2024 onwards)**

| <b>Subject</b>  | <b>Number of Courses</b> | <b>Hours</b> | <b>Credit</b> |
|---|--------------------------|--------------|---------------|
| Language  | 4                        | 24           | 12            |
| English   | 4                        | 24           | 12            |
| Core Course (6x5=30)+ (3x6=18)                            | 9                        | 51           | 48            |
| Core Practical (3x4=12)+(1x5=5)                           | 4                        | 22           | 17            |
| <b>Allied Course:</b><br>Physics<br>Botany/Mathematics    | 4                        | 16           | 12            |
| <b>Allied Practical:</b><br>Physics<br>Botany/Mathematics | 2                        | 8            | 6             |
| Major Based Elective Course (3x4)                         | 3                        | 15           | 12            |
| Skill Based Elective Course                               | 3                        | 6            | 6             |
| Non Major Elective Course                                 | 2                        | 4            | 4             |
| Value Based Education                                     | 1                        | 2            | 2             |
| Environmental Studies                                     | 1                        | 2            | 2             |
| Soft Skill Development                                    | 1                        | 2            | 2             |
| Gender Studies  | 1                        | 1            | 1             |
| Extension Activities                                      | 1                        |              | 1             |
| Group Project   | 1                        | 3            | 3             |
| <b>Total</b>  | <b>41</b>                | <b>180</b>   | <b>140</b>    |

**B.Sc. Chemistry**  
**(CBCS System)**  
**(For Students admitted from June 2024 onwards)**

**EXTRA CREDIT COURSES FOR SKILL DEVELOPMENT\***

| Subject  | Common/Subject Specific   | Number of Courses | Credit    |
|--|---|-------------------|-----------|
| <b>**Office Automation (MANDATORY)</b>   | <b>Common to All</b>  | <b>1</b>          | <b>2</b>  |
| <b>**Web Designing (MANDATORY)</b>   | <b>Common to All</b>  | <b>1</b>          | <b>2</b>  |
| <b>**Internet Concepts (MANDATORY)</b>   | <b>Common to All</b>  | <b>1</b>          | <b>2</b>  |
| <b>**Online Course (MOOC/SWAYAM/NPTEL)(OPTIONAL)</b>   | <b>Subject Specific</b>   | <b>1</b>          | <b>2</b>  |
| Communicative and Functional English (MANDATORY)   | <b>Common to All</b>  | 1                 | 2         |
| Community Outreach Activity (OPTIONAL)   | <b>Subject Specific</b>   | 1                 | 1         |
| Certificate Course (IKS-Indian Knowledge System) (MANDATORY)   | <b>Subject Specific (offered to other departments)</b>  | 1                 | 2         |
| Value Added Course (MANDATORY)   | <b>Subject Specific</b>   | 1                 | 2         |
| Internship-I To be completed during II Semester Vacation (MANDATORY)<br>Internship-II & III (OPTIONAL) | <b>Subject Specific</b>   | 3                 | 3         |
| Capacity Building for Enhancing Professional Skills (MANDATORY)  | <b>50% Common to All (Placement Training)<br/>50% Subject Specific (Career Guidance workshop by the respective Departments)</b> | 1                 | 2         |
| <b>TOTAL</b>   |   | <b>12</b>         | <b>20</b> |

\*The extra credit courses have been introduced in the OBE-CBCS Curriculum pattern to be implemented from 2024 onwards based on the recommendations of the apex bodies namely **TANSCHE, UGC, Bharathidasan University (Parent University), NAAC in lieu of the National Education Policy.**

\*\*Courses with Credit Transfer provision

**B.Sc. Chemistry  
(CBCS System)**

**EXTRA CREDIT COURSE FOR SKILL DEVELOPMENT**

| SEM | COURSE                      | COURSE CODE | COURSE TITLE  | HRS          | CRD | INT/EXT   | CIA | SE | TOT |
|-----|-----------------------------|-------------|---|--------------|-----|-----------|-----|----|-----|
| II  | <b>EXTRA CREDIT COURSES</b> |             | Communicative and Functional English offered by Department of English( <b>MANDATORY</b> )                       | 2            | 2   | INT       | 25  | 75 | 100 |
| III |                             |             | Community Outreach Activity (II Semester vacation- <b>Report, Photo &amp; Feedback</b> ) ( <b>OPTIONAL</b> )    | -            | 1   | INT       | -   | -  | 100 |
| III |                             |             | Internship-I(II Semester vacation)- <b>Online/Offline-Certificate, Report &amp; Photo</b> ( <b>MANDATORY</b> )  | -            | 1   | INT       | -   | -  | 100 |
| IV  |                             |             | Certificate Course (IKS)- <b>Offered to other Department (beyond class hours)</b> ( <b>MANDATORY</b> )          | 2            | 2   | INT       | 25  | 75 | 100 |
| IV  |                             |             | Internship-II(III Semester vacation)- <b>Online/Offline-Certificate, Report &amp; Photo</b> ( <b>OPTIONAL</b> ) | -            | 1   | INT       | -   | -  | 100 |
| IV  |                             |             | <b>Office Automation</b> ( <b>MANDATORY</b> )   | 2            | 2   | INT       | 25  | 75 | 100 |
| V   |                             |             | Value Added Course- <b>Offered to the same department(beyond class hours)</b> ( <b>MANDATORY</b> )              | 2            | 2   | INT       | 25  | 75 | 100 |
| V   |                             |             | Internship-III(IV Semester vacation)- <b>Online/Offline-Certificate, Report &amp; Photo</b> ( <b>OPTIONAL</b> ) | -            | 1   | INT       | -   | -  | 100 |
| V   |                             |             | <b>Web Designing</b> ( <b>MANDATORY</b> )   | 2            | 2   | INT       | 25  | 75 | 100 |
| V   |                             |             | Online Course(MOOC/Swayam/NPTEL)- <b>Before V Semester</b> ( <b>OPTIONAL</b> )                                  | -            | 2   | INT       | -   | -  | 100 |
| VI  |                             |             | Capacity Building for Enhancing Professional Skills- <b>Offered by the Department</b> ( <b>MANDATORY</b> )      | 2            | 2   | INT       | -   | -  | 100 |
| VI  |                             |             | Internet Concepts( <b>MANDATORY</b> )   | 2            | 2   | INT       | 25  | 75 | 100 |
|     |                             |             |   | <b>TOTAL</b> |     | <b>20</b> |     |    |     |

**B.Sc. Chemistry  
(CBCS System)**

**MANDATORY EXTRA CREDIT COURSE FOR SKILL DEVELOPMENT**

| <b>SEM</b> | <b>COURSE CODE</b> | <b>COURSE TITLE</b>   | <b>HRS</b> | <b>CRD</b> | <b>INT/EXT</b> | <b>CIA</b> | <b>SE</b> | <b>TOT</b> |
|------------|--------------------|---|------------|------------|----------------|------------|-----------|------------|
| II         |                    | Communicative and Functional English offered by Department of English                       | 2          | 2          | INT            | 25         | 75        | 100        |
| III        |                    | Internship-I(II Semester vacation)<br><b>Online/Offline-Certificate, Report &amp; Photo</b> | -          | 1          | INT            | -          | -         | 100        |
| IV         |                    | Certificate Course (IKS)- <b>Offered to other Department (beyond class hours)</b>           | 2          | 2          | INT            | 25         | 75        | 100        |
| IV         |                    | Office Automation   | 2          | 2          | INT            | 25         | 75        | 100        |
| V          |                    | Value Added Course- <b>Offered to the same department (beyond class hours)</b>              | 2          | 2          | INT            | 25         | 75        | 100        |
| V          |                    | Web Designing   | 2          | 2          | INT            | 25         | 75        | 100        |
| VI         |                    | Capacity Building for Enhancing Professional Skills- <b>Offered by the Department</b>       | 2          | 2          | INT            | -          | -         | 100        |
| VI         |                    | Internet Concepts   | 2          | 2          | INT            | 25         | 75        | 100        |
|            |                    | <b>TOTAL NUMBER OF COURSES</b>  | <b>8</b>   | <b>14</b>  | <b>15</b>      |            |           | <b>800</b> |

**B.Sc. Chemistry  
(CBCS System)  
OPTIONAL EXTRA CREDIT COURSE FOR SKILL DEVELOPMENT\***

| <b>SEM</b> | <b>COURSE CODE</b> | <b>COURSE TITLE</b>   | <b>HRS</b> | <b>CRD</b> | <b>INT/<br/>EXT</b> | <b>CIA</b> | <b>SE</b> | <b>TOT</b> |
|------------|--------------------|---|------------|------------|---------------------|------------|-----------|------------|
| III        |                    | Community Outreach Activity(II Semester vacation- <b>Report, Photo &amp; Feedback</b> )     | -          | 1          | INT                 | -          | -         | 100        |
| IV         |                    | Internship-II(III Semester vacation)- <b>Online/Offline-Certificate, Report &amp; Photo</b> | -          | 1          | INT                 | -          | -         | 100        |
| V          |                    | Internship-III(IV Semester vacation)- <b>Online/Offline-Certificate, Report &amp; Photo</b> | -          | 1          | INT                 | -          | -         | 100        |
| V          |                    | Online Course(MOOC/Swayam/NPTEL)- <b>Before V Semester</b>                                  | -          | 2          | INT                 | -          | -         | 100        |
|            |                    | <b>TOTAL NUMBER OF COURSES</b>  | <b>4</b>   | <b>5</b>   |                     |            |           | <b>400</b> |