

SNDT Women's University
1, Nathibai Thackersey Road,
Mumbai 400 020

Course Name :

M.Sc in Analytical Chemistry

Course structure :

SEMESTER I

| Paper | Title | Hrs/wk | Internal | External | Total Marks | Credit |
|-------|---|--------|----------|----------|-------------|--------|
| 1001 | Fundamentals of Analytical Chemistry | 4 | 50 | 50 | 100 | 4 |
| 1002 | Food & Biochemical Analysis | 4 | 50 | 50 | 100 | 4 |
| 1003 | Environmental Science | 4 | 50 | 50 | 100 | 4 |
| 1004 | Drug Laws and Packaging | 4 | 50 | 50 | 100 | 4 |
| 1005 | Practical Analytical Chemistry | 8 | 50 | 50 | 100 | 4 |
| 1006 | Practical Food and Biochemical Analysis | 8 | 50 | 50 | 100 | 4 |
| Total | | | | | 600 | 24 |

SEMESTER II

| Paper | Title | Hrs/wk | Internal | External | Total Marks | Credit |
|-------|--|--------|----------|----------|-------------|--------|
| 2001 | Electro Analytical & Spectroscopic Methods | 4 | 50 | 50 | 100 | 4 |
| 2002 | Pharmaceutical Analysis | 4 | 50 | 50 | 100 | 4 |
| 2003 | Cosmetics Formulations & QC | 4 | 50 | 50 | 100 | 4 |
| 2004 | Research Methodology | 4 | 50 | 50 | 100 | 4 |
| 2005 | Practical Spectroscopy and Chromatography | 8 | 50 | 50 | 100 | 4 |
| 2006 | Practical Pharmaceutical Analysis | 8 | 50 | 50 | 100 | 4 |
| Total | | | | | 600 | 24 |

SEMESTER III

| Paper | Title | Hrs/wk | Internal | External | Total Marks | Credit |
|-------|---|--------|----------|----------|-------------|--------|
| 3001 | Advanced Chromatography & Spectroscopic Methods | 4 | 50 | 50 | 100 | 4 |
| 3002 | Organic Analysis | 4 | 50 | 50 | 100 | 4 |
| 3003 | Microbiological Methods of Analysis | 4 | 50 | 50 | 100 | 4 |
| 3004 | Elective Paper | 4 | 50 | 50 | 100 | 4 |
| 3005 | Practical Advanced Spectroscopic Methods | 8 | 50 | 50 | 100 | 4 |
| 3006 | Practical Organic Analysis | 8 | 50 | 50 | 100 | 4 |
| Total | | | | | 600 | 24 |

SEMESTER IV

| Paper | Title | Hrs/wk | Internal | External | Total Marks | Credit |
|-------|---|--------|----------|----------|-------------|--------|
| 4001 | Advanced Analytical Techniques (9 wks) | 4 | 50 | 50 | 100 | 4 |
| 4002 | Practical Advanced Anal. Techniques (9 wks) | 8 | 50 | 50 | 100 | 4 |
| 4003 | Research Project (9 wks) | 12 | 100 | 100 | 200 | 8 |
| 4004 | In-plant training (6 weeks) | 40 | 100 | 100 | 200 | 8 |
| Total | | | | | 600 | 24 |

25 Marks, 1 credit, 15Hrs (1 lecture=1 hour)

Elective

1. Industrial Products & Forensic Analysis
2. Medicinal Chemistry
3. Biosensors, Agrochemicals & Organic Polymers

Methodology

1. Lectures, Tutorials
2. Self study/ Internet/ Websites
3. Home assignments

Internal Assessment (Any One)

1. Presentation on one of the topic from the text
2. Community extension work
3. Field survey