# COURSE STRUCTURE & CURRICULUM
# (AS PER NATIONAL EDUCATION POLICY - 2020)

## For

## B.TECH
## FOOD TECHNOLOGY
## FIRST YEAR

## Department of Bioengineering
## Integral University, Lucknow

**Course Structure Acronyms:**

| S NO | Course Type | Acronym |
|---|---|---|
| 1 | Engineering Science Course | ESC |
| 2 | Professional Core Course | PCC |
| 3 | Professional Elective Course | PEC |
| 4 | Basic Sciences Course | BSC |
| 5 | Humanities and Management Course | HSMC |
| 6 | Open Elective Course | OEC |

# B. Tech Food Technology Program
## First Year
## Semester 1
## (w.e.f session 2024-25)
## (For students admitted from batch 2024-25 onwards)

| S. No. | Course | Course Code | Category | Periods | | | | Evaluation Scheme | | | | | | Subject Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Sessional (CA) | | | End Sem Exam (ESE) | | | |
| | | | | L | T | P | C | CT | TA | Total | PE | TE | Total | |
| 1 | Physics | PY102 | BSC | 3 | 0 | 2 | 4 | 65 | 35 | 100 | 25 | 75 | 100 | 200 |
| 2 | Mathematics-I for Bioengineers | MT102 | BSC | 3 | 1 | 0 | 4 | 50 | 25 | 75 | - | 75 | 75 | 150 |
| 3 | Professional Communication | LN132 | HSMC | 3 | 0 | 2 | 4 | 65 | 35 | 100 | 25 | 75 | 100 | 200 |
| 4 | Environmental Studies | ES101 | BSC | 2 | 1 | 0 | 3 | 50 | 25 | 75 | - | 75 | 75 | 150 |
| 5 | Introduction to Agriculture | BE115 | BSC | 2 | 1 | 0 | 0 | 50* | 25* | 75* | - | 75* | 75* | 150* |
| 6 | Introduction to Food and Nutrition | BE116 | PCC | 3 | 0 | 2 | 4 | 65 | 35 | 100 | 25 | 75 | 100 | 200 |
| 7 | Basic Mechanical Engineering & Workshop | ME101 | ESC | 3 | 0 | 2 | 4 | 65 | 35 | 100 | 25 | 75 | 100 | 200 |
| 8 | Rashtra Gaurav | HM101 | HSMC | 2 | 0 | 0 | 0 | 50 | 25 | 75 | - | 75 | 75 | 150 |
| | Total | | | 21 | 3 | 8 | 23 | 410 | 215 | 625 | 100 | 525 | 625 | |

 **\*A Zero Credit Course: Candidate has to pass the course by securing at least 50% marks**

**L** – Lecture      **T** – Tutorial     **P** – Practical          **C** – Credit**s**          **CT** – Class Test
**TA** – Teacher Assessment
**Sessional Total (CA)** = Class Test + Teacher Assessment

**Subject Total** = Sessional Total (CA) + End Semester Examination (ESE)

# B. Tech Food Technology Program
## First Year
## Semester 2
## (w.e.f session 2024-25)
## (For students admitted from batch 2024-25 onwards)

| S. No. | Course | Course Code | Category | Periods | | | | Evaluation Scheme | | | | | | Subject Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Sessional (CA) | | | End Sem Exam (ESE) | | | |
| | | | | L | T | P | C | CT | TA | Total | PE | TE | Total | |
| 1 | Chemistry | CH102 | BSC | 3 | 0 | 2 | 4 | 65 | 35 | 100 | 25 | 75 | 100 | 200 |
| 2 | Mathematics-II for Bioengineers | MT113 | BSC | 3 | 1 | 0 | 4 | 50 | 25 | 75 | - | 75 | 75 | 150 |
| 3 | Computer Programming | CS101 | ESC | 3 | 0 | 2 | 4 | 65 | 35 | 100 | 25 | 75 | 100 | 200 |
| 4 | Thermodynamics | BE103 | ESC | 2 | 1 | 0 | 3 | 50 | 25 | 75 | - | 75 | 75 | 150 |
| 5 | Introduction to Biosciences | BE117 | BSC | 2 | 1 | 0 | 0 | 50* | 25* | 75* | - | 75* | 75* | 150* |
| 6 | Engineering graphics | ME103 | ESC | 0 | 0 | 2 | 1 | 15 | 10 | 25 | 25 | - | 25 | 50 |
| 7 | Basic Electrical Engineering | EE103 | ESC | 3 | 0 | 2 | 4 | 65 | 35 | 100 | 25 | 75 | 100 | 200 |
| 8 | Basic Electronics | EC101 | ESC | 3 | 0 | 0 | 3 | 50 | 25 | 75 | - | 75 | 75 | 150 |
| | Total | | | 19 | 3 | 8 | 23 | 360 | 190 | 550 | 100 | 450 | 550 | |

**\*A Zero Credit Course: Candidate has to pass the course by securing at least 50% marks**

**L** – Lecture       **T** – Tutorial    **P** – Practical        **C** – Credit**s**        **CT** – Class Test
**TA** – Teacher Assessment
**Sessional Total (CA)** = Class Test + Teacher Assessment

**Subject Total** = Sessional Total (CA) + End Semester Examination (ESE)