



SVR ENGINEERING COLLEGE

Ayyalurumetta (V), Nandyal


(Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi)

1.3.1. Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

| Crosscutting Issue | Regulations | Course Code | Name of the Course | Year of Study | Academic Year |
|------------------------------------|-------------|-------------|------------------------------------|-------------------------------|-------------------------|
| Environmental Science | R15 | 15A01101 | Environmental Science | I-I ECE, ME | 2016-17,2017-18,2018-19 |
| | R15 | 15A01101 | Environmental Science | I-II CIVIL,CSE, EEE | 2016-17,2017-18,2018-19 |
| | R19 | 19A99301 | Environmental Science | II-I CSE,CIVIL,ME | 2020-2021 |
| | R19 | 19A99301 | Environmental Science | II-II ECE.EEE | 2020-2021 |
| | R20 | 20A99201 | Environmental Science | I-II ECE, EEE, CIVIL | 2021-22 |
| | R20 | 20A99201 | Environmental Science | II-I CSE, AI, ME | 2022-23 |
| Biology For Engineers | R19 | 19A99302 | Biology For Engineers | II-I ECE,EEE | 2020-2021 |
| | R19 | 19A99302 | Biology For Engineers | II-II CSE,CIVIL,ME | 2020-2021 |
| Social values &Ethics | R15 | 15A99501 | Social values &Ethics | III-I ECE,CIVIL, ME, EEE, CSE | 2017-18 |
| Human Values & Professional Ethics | R14 | 14E00321 | Human Values & Professional Ethics | III-SEMESTER-MBA | 2016-17 |
| Universal Human Values | R20 | 20A52201 | Universal Human Values | I-II CSE, AI, MECH | 2020-21,2021-22, |
| | R20 | 20A52201 | Universal Human Values | II-I ECE, EEE, CE | 2021-22, 2022-23 |

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| core courses | Course Name | Cross cutting issue | Description of course |
|-------------------------------|---|--|---|
| Common to B.TECH all Branches | Environmental Science (19A99301) | Environmental Education, Climate changes | <p>The protection of environmental and making use of our available natural resources efficiently is the most pressing demands in the present stage of development. The task of preserving the purity of the environment is of utmost concern at national and global levels. The course emphasizes the control and management of wastes generated by industrial practices.</p> <p>Objectives:</p> <ul style="list-style-type: none"> • To make the students to get awareness on environment • To understand the importance of protecting natural resources, ecosystems for future generations and pollution causes due to the day to day activities of human life • To save earth from the inventions by the engineers |
| Common to B.TECH all Branches | Biology For Engineers (19A99302) | life Process of Animal and plant systems | <p>To provide basic understanding about life and life Process of Animal and plant systems. To understand what Biomolecules, are, their structures are functions. Application of certain Biomolecules in Industry</p> <p>Objectives:</p> <ul style="list-style-type: none"> • Brief introduction about human physiology and bioengineering • How biology Principles can be applied in our daily life using different technologies • Brief introduction to the production of transgenic microbes, Plants and animals • To understand hereditary units, i.e. DNA (genes) and RNA and their synthesis in living organism |
| Common to B.TECH all Branches | Social values & Ethics (15A99501) | Moral values ethical values | <p>Ethics in Engineering is the ability as well as responsibility of an engineer to judge his decisions from the context of the general wellbeing of the society. It is the study of moral issues that confront engineers and engineering organizations when some crucial decisions are taken. Engineering research and practice requires that the task being performed considers all the pros and cons of a certain action and its implementation</p> |
| MBA | Human Values & Professional Ethics (14E00321) | Professional Ethics Management and Organizational Behavior | <ul style="list-style-type: none"> • These courses impart a set of ethical standards and basic values for the harmonious existence of humanity. These courses also teach the standard for professional practice, propose appropriate technologies and management patterns to create harmony in professional and personal life. • Apart from this, the institution also has the Anti-Ragging Committee and Internal Complaint Committee to uphold human values, morality, and ethics. |


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| Common to B.TECH all Branches | Universal Human Values (20A52201) | Development of a holistic perspective based on self-exploration about themselves, family, society and nature /existence | The objective of the course is four fold <ul style="list-style-type: none">• Development of a holistic perspective based on self-exploration about themselves (human being), family, society and nature/existence• Understanding (or developing clarity) of the harmony in the human being, family, society and nature/existence• Strengthening of self-reflection• Development of commitment and courage to act |
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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

AMENDMENT

in

B.TECH. R20 ACADEMIC REGULATIONS

(Applicable for students admitted into non autonomous Constituent & Affiliated colleges)

(As per AICTE guidelines)

Applicable for the Regular Students admitted from
the academic year 2021-22 onwards
and
for the Lateral Entry Students admitted from
2022-23 onwards

1. The course on Universal Human Values which was offered as a non-credit mandatory course will now be carrying 03 credits

This is compulsory subject for all UG Degree Courses in Engineering & Technology, with 03 exclusive credits. Hence the overall credits of curriculum are 163 credits instead of 160 credits for regular and 124 credits instead of 121 for lateral entry students.

It is offered in 3rd semester for all the disciplines of Engineering & Technology

2. Environmental Science, which is a non-credit mandatory course will now be offered in 5th semester for all disciplines of Engineering & Technology