# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

## R16 B. Tech. List of SWAYAM Courses as Electives for AY 2019-20

| Name of the Department | III Year II Sem (Professional Elective – I) | IV Year II Sem (Professional Elective – V) | IV Year II Sem (Professional Elective – VI) |
|---|---|---|---|
| **Civil Engineering / Civil & Environmental Engineering** | Modern Construction Materials (12 Weeks) | Environmental Remediation of Contaminated Sites (12 Weeks) | Fire Protection, Services and Maintenance Management of Building (12 Weeks) |
| | Geosynthetics and Reinforced Soil Structures (12 Weeks) | Water Supply Engineering (12 Weeks) | -- |
| **Electrical and Electronics Engineering** | DC Power Transmission Systems (12 Weeks) | Multirate DSP (12 Weeks) | Power Management Integrated Circuits (12 Weeks) |
| | Digital Electronic Circuits (12 Weeks) | --- | Electronic Systems for Cancer Diagnosis (12 Weeks) |
| **Mechanical Engineering / Material Science & Nanotechnology** | IC Engines and Gas Turbines (12 Weeks) | Introduction to Mechanical Micro Machining (12 Weeks) | Product Design and Manufacturing (12 Weeks) |
| **Electronics and Communication Engineering** | Computer Architecture (12 Weeks) | Introduction to Internet of Things (12 Weeks) | An Introduction to Artificial Intelligence (12 Weeks) |
| | Spread Spectrum Communications and Jamming (12 Weeks) | Biomedical Signal Processing (12 Weeks) | Introduction to Database Systems (12 Weeks) |
| **Electronics and Instrumentation** | Principles of Communication Systems - I (12 Weeks) | Computer Networks and Internet Protocol (12 Weeks) | Introduction to Internet of Things (12 Weeks) |
| | The Joy of Computing using Python (12 Weeks) | Biomedical Signal Processing (12 Weeks) | Introduction to Machine Learning (12 Weeks) |
| **Computer Science and Engineering** | An Introduction to Artificial Intelligence (12 Weeks) | ***Deep Learning (12 Weeks)*** | Reinforcement Learning (12 Weeks) |
| **Information Technology** | Randomized Algorithms (12 Weeks) | GPU Architectures and Programming (12 Weeks) | An Introduction to Artificial Intelligence (12 Weeks) |

**Note:** Students are requested to check for the availability of courses during registration.

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| Start of Course | 27-Jan-20 |
| End of Course | 17-Apr-20 |
| Exam Dates - 1 | 25 April 2020 and 26 April 2020 - 2 Sessions on each date: 9 am-12 noon; 2 pm-5 pm |
| Open enrolment to the Course | Nov, 18 2019 |
| Close enrolment to the Course | 3-Feb-20 |
| Open exam registration form | 16-Dec-19 |
| Close exam registration form | Mar 16, 2020/Mar 20, 2020 10:00 AM |