

**ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI
(AUTONOMOUS)**

COMPUTER SCIENCE AND ENGINEERING
(Effective for the batches admitted in 2019-20)

IV B. Tech – II Semester (Theory – 2, Lab – 2) – AK19

S.No	Category	Course Code	Course Title	Hours per week			Credits	Scheme Examination (Max. Marks)		
				L	T	P		CIE	SEE	Total
THEORY										
1	OE		Open Elective IV (MOOCs) Introduction to robotics System Design for Sustainability Design, Technology and Innovation Basics of software defined Radios Introduction to Smart Grid Introduction to Wireless and Cellular Communications Fiber Optic Communication Technology Stochastic control and communication Real-Time Digital Signal Processing Microwave Engineering Principles And Techniques Of Modern Radar Systems VLSI Interconnects Developing Soft Skills and Personality Body language: Key to professional Success Psychology of Everyday Introduction to Film Studies Short Fiction in Indian Literature Gender and literature Educational Leadership Entrepreneurship And IP Strategy Globalization And Culture Consumer Psychology Public Speaking Project Management Training Of Trainers Decision-Making Under Uncertainty Strategy: An Introduction to game Theory Organizational Behaviour Customer Relationship Management Decision Support System For Managers Stress Management	3	0	0	3	-	-	-

2	PE		Professional Elective (MOOC's) Data Science for Engineers Reinforcement Learning Introduction to Game Theory and Mechanism Design Introduction to Quantum Computing: Quantum Algorithms and Qiskit Advanced Distributed systems Parameterized Algorithms Computer Vision Scalable Data Science Spatial Informatics Demystifying Networking Social Network Analysis Design & Implementation of Human-Computer Interfaces Computational Complexity	3	0	0	3	-	-	-
PRACTICAL										
3	PR	19APR0506	Project I	0	0	18	9	60	140	200
4	PR	19APR0507	Technical Paper Presentation/Seminar	-	-	-	0	50	0	50
TOTAL							15	110	140	250

Guidelines for MOOC Courses @ AITS::Tirupati

1. Two MOOC courses are introduced in AK19 curriculum in IV B.Tech II Semester (8th Semester) Students should compulsorily submit the pass certificate generated by NPTEL for verification and for consideration of credits. As understood, Certificate by NPTEL will be issued only when a registered students submit assignments regularly as per schedule given and get a minimum of 10 out of 25 marks; and obtain a minimum of 30 marks out of 75 marks in the end examination. (Both criteria should be met to declare pass by NPTEL).
2. Out of two MOOC courses introduced, one MOOC shall be with 'Professional Elective Nature and another with 'open Elective' nature: Head of the department will announce options available on the NPTEL platform, and the students have to select 3 credited courses only to fit into the existing credit scheme.
3. Courses with minimum 8 weeks learning duration only shall be chosen for MOOC courses.
4. Marks or percentage obtained will be converted to grade points and reflects on the grade sheet.
5. Swayam NPTEL Courses will be notified on this platform before 1st November for January semester; and will be notified before 1st June for July semester. Accordingly HOD shall issue notification/circular to the teachers connected and to the concerned student groups.
6. In case the student fails/ absent in the MOOC courses in the regular examination he/she will be all owed to register for next supply examination in manual mode as he can't avail MOOC platform to clear the pending course during the next season. The pattern of examination for manual mode in supplementary will be same as that of NPTEL question paper.
7. Examination fee paid for the 8th semester to the exam branch of the college is only for project work, internships and seminars. The exam fee payable for taking NPTEL online courses shall be borne by the students only
8. Teachers connected to the student group for guidance of MOOC courses shall also register for the course, go through the e-content in it to provide proper guidance to the students and also to get his 'mentor certificate'.
9. Registration facility – extension of dates if any shall be continuously monitored by the HOD & students.