



(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Chittoor Main Road, Vellore – 632 059.

VALUE-ADDED COURSES POLICY

Objectives

The objective of the value-added courses is to help the students to enrich their skills and increase employability. The courses are intended to provide the students with advanced skills that are going to be useful in their curriculum and placement as follows:

- ☐ To bridge the knowledge gap between academia and industry
- ☐ To make students familiar with all the modern and updated concepts of the industry and enhance their chances of acquiring lucrative careers.
- ☐ To provide students with an understanding of the expectations of the industry.
- ☐ To improve employability skills and make students industry-ready.
- ☐ To enhance communication skills to face the business world.
- ☐ To help the students develop the ability to solve real-time problems in industry and society.
- ☐ To provide an opportunity for students to develop interdisciplinary skills.
- ☐ To expose students to recent trends in the core field and enhance their employability skills.
- ☐ To initiate students into learning beyond the boundaries of their chosen programmes.
- ☐ To provide holistic education to help students emerge as skilled and confident personalities.
- ☐ To bridge the skill gaps and make students industry-ready.
- ☐ To mould students as job providers rather than job seekers.

Methodology

The value-added courses are delivered using a combination of lectures, hands-on training classroom discussions and interactive discussions. Extensive practice sessions for training students through assignments on practical exercises are included. The expert trainers make use of audio-visual aids to make presentations of the concepts. The sessions are monitored through the conduct of evaluation tests to assess the understanding of the students.



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Designing the Courses

Before designing the syllabus, The College takes steps to find out the current needs in the industry signs MoUs to teach such Value Added Courses and collects feedback from employers, alumni and industry

people will be analyzed and considered to select and design an appropriate course by identifying the gaps.

Apart from this discussions may also be held with the employers, alumni and industrial experts to understand the expectations for current and emerging trends.

The department prepares the course contents, its delivery plan, time-table, reference books etc. for the courses. Any new Value Added Course developed by the Department should be discussed in the IQAC cell of the institution and approved by Governing council.

The course offered should not be the same as any course listed in the curriculum of the respective program/ or any other program offered in college.

A unique course code is to be given for each course.

The teachers handling these courses are certified trainers who undertook training from the corresponding industry personnel to offer training. After successful completion of the course, the students are issued certificates.

Add-on/Certificate programs should have a total minimum duration of 30 hours duration to be considered. Details of each program such as a brochure mentioning the name of the program, a summary of the contents, duration, date of commencement, contact person, and contact numbers should be created.

A certificate should be issued to the participants on course completion. The curriculum, number of hours, assessment procedures along outcomes should be outlined.

Year-wise list of the students enrolled in the programme including attendance sheets of students participating along with their signatures should be provided.



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Guidelines for conducting value-added courses:

The courses offered should not be identical to any other course specified in the corresponding program's curriculum

The value-added courses should not be included in the curriculum of Anna University.

It is a teacher-assisted learning course open to all students without any additional fee.

The value-added courses may be also conducted during vacations.

A student will be permitted to register for only one Value Added Course in a Semester.

The students may be allowed to take value-added courses offered by other departments after registering in the Google form, the Head of the Department may direct them to attend the course.

The duration of value-added courses should be a minimum of 30 hours of theory.

Eligibility:

A department value-added course is open for both undergraduate and postgraduate students.

List of Value-Added Courses offered:

The following departments offer Value Added Courses under the titles as follows,

DEPARTMENT OF SCIENCE AND HUMANITIES

Physics of the Everyday, Fundamentals of Networks, Writing and Speaking English Effectively, How Things Work? An Introduction to physics, General Chemistry and Siddha Geology, Quantitative Aptitude for Engineers, Conversational English, Introduction to Academic Writing, Probability and Statics, "Waste management" Current Entail to the world, and Introduction to Copy Editing.

DEPARTMENT OF CIVIL ENGINEERING

Urban Transportation Policy Planning for Sustainable Development, Geospatial Software Applications in Civil Engineering, Advanced Concrete Technology, Application Of Soft



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Computing Techniques, Innovative Construction Materials, Pavement Material Characterization, Advanced Structural Analysis, Construction, Equipment In Major Projects,

Theory Of Elastic Behaviour & Metal Structures, Remote Sensing & Gis in Transportation Development.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Virtual Reality and Augmented reality, Adaptive Deep Learning Techniques, Visual Basic Laboratory, Usage of Data Science, Blockchain Technology, Network Design, Design Thinking, Internet of Things, Introduction to Data Science, Java Programming- An overview, Basics of Machine Learning, Multimedia Technology, and Web Application Development.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Electric and Hybrid vehicles, MATLAB and SIMULINK for Electrical engineers, Fuzzy Logic system and Applications, Solar power design, Operation and Installation, Arduino for Beginners, Robotics and Automation, Programmable logic controller, SCADA, Electrical Safety and testing, PCB Design for Electronics Engineer, and VHDL.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PCB Design and Fabrication, MATLAB and Simulink for Data Processing and Visualization, Robotics in Biomedical Engineering, Radio Frequency Circuit Design, Mobile Phone technology, Neural Networks and Applications, Machine Learning Techniques, IoT for Embedded Systems, Advanced Digital signal processing, Embedded C and ORCAD, Introduction to Internet of things (IoT), Introduction to Robotics, and Advanced 3G and 4G wireless communication.

DEPARTMENT OF INFORMATION TECHNOLOGY



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Applying AI to Software Engineering Processes, Machine Learning on the Edge, Introduction to Augmented Reality, Blockchain and Bitcoin fundamentals, Innovative Trends in Cyber Security and Threats, Android for Mobile App Development, IOT-enabled Smart Sensors and its Applications, Digital Image Process using Matlab, Guest Lectures on Bigdata and Hadoop, Design Patterns currently used in Software Industry, Latest trends in Wireless Networks and its Applications, and Advanced concepts in Cloud computing.

DEPARTMENT OF MECHANICAL ENGINEERING

Advances in Manufacturing Processes, Fundamentals of Artificial Intelligence, Additive Manufacturing and Tooling, Introduction to Mechanical Design using CREO, Materials Management, CNC Machines, Design of Cellular Manufacturing System, Material Characterization Techniques, Basics of Design using CATIA, Lean Manufacturing, Advanced Mechanics of Materials, and Design for Manufacturing.

DEPARTMENT OF MBA

Career Development, Managerial Skills for Interpersonal Dynamics, Leadership and Team Effectiveness, Artificial Intelligence for Investments, Training And Development, Six Sigma, Time Management Skills, and Training For Trainers.

Registration Procedure

A student shall register for a Value Added Course offered at the end of the even semester by submitting the duly filled online or offline registration form. The Head of the Department shall segregate according to the student's choice and send them to the concerned faculty for the particular Value Added Courses.

Attendance

Each faculty co-ordinator shall be responsible for the maintenance of the Attendance and Assessment Record for candidates who have registered for the course.

- ❖ The Record shall contain details of the student's attendance and marks obtained in the Internal Assessment Tests.



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- ❖ The attendance record shall be submitted to the Head of the Department.
- ❖ The record shall be duly signed by the Course Instructor and the Head of the Department and placed in safe custody for any future verification.
- ❖ Each student shall have a minimum of 75% attendance in all the courses.
- ❖ Each student should score a minimum of 50% marks be eligible to get the certificate.

Course Completion and Certification

- ☐ The value-added courses will be assessed and evaluated through multiple choice objective type questions, fill in the blanks, true or false, to check the competency level of students.
- ☐ Learners will get a certificate only after successfully passing the examination.
- ☐ The criterion for getting certification is based on 75% attendance and 50 % of pass marks. If any one of the criteria is not met, the student is not eligible to get the certificate.
- ☐ The students who have completed the Value Added Course and met the above criterion shall be issued a Certificate duly signed by the Authorized signatories.