

# **Government College of Engineering, Salem- 11**

*(An Autonomous Institution affiliated to Anna University, Chennai)*



## ***SELF-STUDY REPORT***



### **CRITERION 1**

**1.3.2 Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms where the students of the institution have enrolled and successfully completed during the last five years.**

*(Submitted to National Assessment and Accreditation Council)*

## Self Declaration

This is to certify that the supporting documents for this metric exceed the 5MB upload limit. Therefore, links to sample documents and some samples are provided in the following pages. Any/all Supporting documents will be provided, if required. All links, documents and images are verified and authenticated.



**IQAC – Chairperson**

**Internal Quality Assurance Cell  
Govt. College of Engineering  
Salem - 636 011.**

**1.3.2 Number of Certificate/value added courses/Diploma Programmes offered by the institution and courses of MOOCs, SWAYAM/e-PG Pathshala/NPTEL and other recognized platforms where the students of the institution have enrolled and successfully completed during the last five years (2018-2019) to (2022-2023)**

**Value added program and Online Course brochures.**

**NPTEL Courses**

[1.3.2 / Link 1](#)

**Naan Mudhalvan Courses**

[1.3.2 / Link 2](#)


**Naalaiya Tiran Courses**

[1.3.2 / Link 3](#)

  
**PRINCIPAL**  
GOVT. COLLEGE OF ENGG.,  
SALEM-636 011

## Sample/Reference for Value Added Courses

Off: 22357077 / 73  
22357074  
Fax / Dir : 22352272

**CENTRE FOR ACADEMIC COURSES**  
ANNA UNIVERSITY  
CHENNAI - 600 025

**DIRECTOR**  
Letter No.5425/AU/CAC/SBC/2022

To  
The Principals of Government Engineering Colleges (Autonomous)  
Anna University, Chennai.

Sir/Madam,

Sub: A.U. - Offer of skill based courses (as Mandatory / Value Added Courses to the students pursuing of B.E./B.Tech. Degree programmes) - Reg.  
Ref: D.O.LETTER NO.201/SPI/2022, DATED:7-9-2022.

With reference to the above, it is informed that the 28<sup>th</sup> Academic Council of Anna University has decided to offer Employability Enhancement Skill Based Courses as mandatory courses/Value Added Courses to the students pursuing B.E./B.Tech. degree programmes in all Government Engineering colleges (Autonomous) affiliated to Anna University under skill enhancement initiative of Government of Tamil Nadu, through Naan Mudhalvan scheme. The modifications in the Curriculum and Regulations are described in Annexure I. The details of the courses and the students who are eligible to attend these courses of different B.E./B.Tech. degree programmes are provided in Table 1 in Annexure II.

The colleges that are grouped under different zones of the office of Controller of Examinations and the corresponding time schedule for the offer of the courses are presented in Table 2 in Annexure III. The Syllabus of the courses are provided in Annexure IV.

It is requested that the students shall be encouraged to enroll for these mandatory courses at the earliest through the Naan Mudhalvan portal. The SPOC should take the responsibility to make the students to enroll immediately in the Naan Mudhalvan portal and also to adhere all the instructions given during the online meeting held on 13.10.2022.

*Handwritten notes:*  
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17 OCT 2022

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DIRECTOR, CENTRE FOR ACADEMIC COURSES, ANNA UNIVERSITY, CHENNAI  
13.10.2022

## Sample/Reference Value Added Courses

Fax / Dir.: 22352272



**CENTRE FOR ACADEMIC COURSES**  
**ANNA UNIVERSITY**  
CHENNAI – 600 025

**Dr. S. HOSIMIN THILAGAR**  
**DIRECTOR**

Letter No.3882/AU/CAC/2022

13.06.2022

To  
The Director,  
Ramanujam Computing Centre,  
Anna University,  
Chennai 600025

Sir,

Sub: Naalaiya Tiran Project 2022 - Offering of "PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP" Course to all students of current VI Semester B.E. CSE, B.Tech. IT, and B.E ECE of Anna University – Reg.

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Anna University in association with Department of Information Technology, Govt. of Tamil Nadu, is launching a program called Naalaiya Tiran - an "Experiential Project Based Learning initiative", to empower the students with enhanced professional and technical skills.

This is a joint initiative of Anna University, ICT Academy of Tamil Nadu, NASSCOM and IBM, and is supported by the Tamil Nadu Skill Development Corporation under the Naan Mudalvan scheme of the Govt. of Tamil Nadu.

As part of this program, Anna University is offering an EEC category MANDATORY course "PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP" with 3 credits (as an extended 4-5 months Hackathon) to all the 6<sup>th</sup> semester students (of B.E. CSE, B.Tech. IT, and B.E. ECE). They will earn the credits in the 7<sup>th</sup> semester on completion of this course. This course has been approved by the Board of Studies, Faculty of ICE, Anna University.

The course is administered online through the website :  
<https://careereducation.smartinternz.com/>

All faculty mentors, evaluators, SPOC, and students of these three branches are requested to check the above website for registration and all information.

## Sample/Reference for Value Added Courses



### MANUFACTURING PROCESSES - CASTING AND JOINING

**PROF. SOUNAK KUMAR CHOUDHURY**  
Department of Mechanical Engineering  
IIT Kanpur

**INTENDED AUDIENCE :** UG students; practicing engineers

**INDUSTRIES SUPPORT :** Machine Tool industries; Automobile manufacturing industries; Foundry industries.

**COURSE OUTLINE :**

This course is intended to introduce the characteristic features of casting and welding processes. Process characteristics, analysis, and design criteria of various casting and welding processes will be discussed in detail with examples and video clips from industries. Typical numerical examples will be discussed to help the students understand the theory in a better way. The course is designed for undergraduate engineering students as a part of the core course on Manufacturing Technology as well as for practicing engineers.

**ABOUT INSTRUCTOR :**

Prof. Sounak Kumar Choudhury has completed my Ph.D. in Mechanical Engineering from Moscow, Russia in 1985 followed by post-doctoral at the same university till 1986. From 1986 I am involved in teaching and research in the Mechanical Engineering Department of Indian Institute of Technology Kanpur. My areas of specialization are conventional and non-conventional machining, automatic control, hydraulic control, machine tools and manufacturing automation.

**COURSE PLAN :**

**Week 1:** Casting: Introduction; Classification of casting processes; Advantages and drawbacks; Historical background; Foundry practice on video; Casting of BMW car wheels on video; Patterns; Shrinkage and Mechanical allowances; Moulds; Gating system; Properties of moulding sand; Gating design; Vertical gating: aspiration effect; Optimum riser design;

**Week 2:** Solidification of pure metal and alloy; Solidification time: Chvorinov's rule; Categories of metal casting processes; Steps in sand casting; Mould properties and characteristics; Shell moulding; Investment casting: Process characteristics, Process to show through video, Advantages and disadvantages; Multiple mould casting, Steps in permanent mould casting; Die casting: Hot and Cold Chamber die casting; Centrifugal casting; Continuous casting; Cost analysis of casting; Casting defects; Product design considerations in casting;