



GOVERNMENT COLLEGE OF ENGINEERING, SALEM

(NAAC Accredited with A⁺, An Autonomous Institution, Affiliated to Anna University, Chennai)

UNDERGRADUATE CURRICULUM

(Applicable to the students admitted in B.E. Programme, from the Academic Year 2026-2027)

Programme: B.E. Civil Engineering (Working Professionals)

Regulations: 2026

Overview of Credits

Sem	BS	HM	ES(G)	ES(PC)	ES(PE)	OE	SD	MC	Total
I	3			16				3	22
II		2		16			1	3	22
III				17	6		1		24
IV				8	9	3	3		23
V				13	3				16
VI							10		10
Total	3	2	0	70	18	3	15	6	117
% of Category	2.56	1.71	0.00	59.83	15.38	2.56	12.82	5.13	100

Abbreviations:

Course Type:

- T** - Theory
- L** - Laboratory
- LIT** - Laboratory Integrated Theory
- CDP** - Capstone Design Project
- PW** - Project Work
- IOC** – Industry Oriented Course

Category :

- BS** - Basic Science
- HM** - Humanities
- ES** - Engineering Science [General (**G**)
Programme Core (**PC**)
Programme Elective (**PE**)]
- OE** - Open Elective
- SD** - Skill Development
- MC** - Mandatory Course

Others :

- L** - Lecture
- T** - Tutorial
- P** - Practical
- SL** - Term work (TW) + Self Learning (SL)
- TH** - Total Number of Teaching – Learning Hours per Semester

Semester I													
Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
1.	26MAC04	Partial Differential Equations and Complex Variables	T	45	15	0	30	90	3	BS	40	60	100
2.	26CE301	Mechanics of Fluids	T	45	0	0	45	90	3	ES(PC)	40	60	100
3.	26CE302	Surveying	T	45	0	0	45	90	3	ES(PC)	40	60	100
4.	26CE303	Water Resources Engineering	T	45	0	0	45	90	3	ES(PC)	40	60	100
5.	26ES301	Mechanics of Solids	T	45	15	0	30	90	3	ES(PC)	40	60	100
6.	26CE304	Advanced Surveying and Basic GIS Practical	L	0	0	60	0	60	2	ES(PC)	60	40	100
7.	26CE305	Material Testing and Evaluation Laboratory	L	0	0	60	0	60	2	ES(PC)	60	40	100
8.	26MCC02	Environmental Science and Engineering	T	45	0	0	45	90	3	MC	40	60	100
Total								660	22				

Semester II													
Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
1.	26CE401	Strength of Materials	T	45	15	0	30	90	3	ES(PC)	40	60	100
2.	26CE402	Steel Structure Elements	T	45	15	0	30	90	3	ES(PC)	40	60	100
3.	26CE403	Mechanics of Soils	T	45	0	0	45	90	3	ES(PC)	40	60	100
4.	26CE404	Applied Hydraulics and Fluid Machinery	T	45	0	0	45	90	3	ES(PC)	40	60	100
5.	26CE405	Computer Aided Building Drawing	L	0	0	60	0	60	2	ES(PC)	60	40	100
6.	26CE406	Applied Hydraulics and Machinery Laboratory	L	0	0	60	0	60	2	ES(PC)	60	40	100
7.	26ENC03	Placement and Soft Skill Laboratory	L	0	0	45	15	60	2	HM	60	40	100
8.	26MCC03	Universal Human Values	T	45	0	0	45	90	3	MC	40	60	100
9.	26CEICXX	Industry Oriented Course - I	IOC	15	0	0	15	30	1	SD	100	-	100
Total								660	22				

Semester III													
Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
1.	26CE501	Basic Structural Analysis	T	45	15	0	30	90	3	ES(PC)	40	60	100
2.	26CE502	Foundation Engineering	T	45	0	0	45	90	3	ES(PC)	40	60	100
3.	26CE503	Design of Reinforced Concrete Elements	T	45	0	0	45	90	3	ES(PC)	40	60	100
4.	26CE504	Water Supply Engineering	T	45	0	0	45	90	3	ES(PC)	40	60	100
5.	26CE505	Concrete Technology	T	45	0	0	45	90	3	ES(PC)	40	60	100
6.	26CEPEXX	Programme Elective - I	T	45	0	0	45	90	3	ES(PE)	40	60	100
7.	26CEPEXX	Programme Elective - II	T	45	0	0	45	90	3	ES(PE)	40	60	100
8.	26CE506	Geotechnical Engineering Laboratory	L	0	0	60	0	60	2	ES(PC)	60	40	100
9.	26CEICXX	Industry Oriented Course - II	IOC	15	0	0	15	30	1	SD	100	-	100
10.	26MCC04	Disaster Management and Preparedness	T	30	0	0	30	60	0	MC	100	-	100
11.	26MCC05	Indian Constitution	T	30	0	30	0	60	0	MC	100	-	100
Total								840	24				

Semester III													
Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
For Honours Degree													
1.	26CED01	Capstone Design Project Level-I	CDP	0	0	90	90	180	6	SD	60	40	100
OR													
1.	26CEHXX	Honours Elective - I	T	45	0	0	45	90	3	ES(PE)	40	60	100
2.	26CEHXX	Honours Elective - II	T	45	0	0	45	90	3	ES(PE)	40	60	100
For Minor Degree													
1.	26CEMXX	Minor Elective - I	T	45	0	0	45	90	3	OE	40	60	100
2.	26CEMXX	Minor Elective - II	T	45	0	0	45	90	3	OE	40	60	100
TOTAL								180	6				

Semester IV													
Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
1.	26CE601	WasteWater Engineering	T	45	0	0	45	90	3	ES(PC)	40	60	100
2.	26CE602	Transportation Engineering	T	45	0	0	45	90	3	ES(PC)	40	60	100
3.	26CEPEXX	Programme Elective - III	T	45	0	0	45	90	3	ES(PE)	40	60	100
4.	26CEPEXX	Programme Elective - IV	T	45	0	0	45	90	3	ES(PE)	40	60	100
5.	26CEPEXX	Programme Elective - V	T	45	0	0	45	90	3	ES(PE)	40	60	100
6.	26XXOEXX	Open Elective - I	T	45	0	0	45	90	3	OE	40	60	100
7.	26CE603	Environmental Quality Measurement Laboratory	L	0	0	60	0	60	2	ES(PC)	60	40	100
8.	26CE604	Mini Project	PW	0	0	45	45	90	3	SD	100	-	100
Total								690	23				

Semester IV													
Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
For Honours Degree													
1.	26CED02	Capstone Design Project Level-II	CDP	0	0	90	90	180	6	SD	60	40	100
OR													
1.	26CEHXX	Honours Elective - III	T	45	0	0	45	90	3	ES(PE)	40	60	100
2.	26CEHXX	Honours Elective - IV	T	45	0	0	45	90	3	ES(PE)	40	60	100
For Minor Degree													
1.	26CEMXX	Minor Elective - III	T	45	0	0	45	90	3	OE	40	60	100
2.	26CEMXX	Minor Elective - IV	T	45	0	0	45	90	3	OE	40	60	100
TOTAL								180	6				

Semester V													
Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
1.	26CE701	Advanced Structural Analysis	T	45	0	0	45	90	3	ES(PC)	40	60	100
2.	26CE702	Construction Management	T	45	0	0	45	90	3	ES(PC)	40	60	100
3.	26CE703	Estimation, Costing and Valuation	T	45	0	0	45	90	3	ES(PC)	40	60	100
4.	26CEPEXX	Programme Elective - VI	T	45	0	0	45	90	3	ES(PE)	40	60	100
5.	26CE704	Concrete Technology Laboratory	L	0	0	60	0	60	2	ES(PC)	60	40	100
6.	26CE705	Computer Aided Design and Drawing (Concrete & Steel)	L	0	0	60	0	60	2	ES(PC)	60	40	100
TOTAL								480	16				

Semester V													
Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
For Honours Degree													
1.	26CED03	Capstone Design Project Level-III	CDP	0	0	90	90	180	6	SD	60	40	100
OR													
1.	26CEHXX	Honours Elective - V	T	45	0	0	45	90	3	ES(PE)	40	60	100
2.	26CEHXX	Honours Elective - VI	T	45	0	0	45	90	3	ES(PE)	40	60	100
For Minor Degree													
1.	26CEMXX	Minor Elective - V	T	45	0	0	45	90	3	OE	40	60	100
2.	26CEMXX	Minor Elective - VI	T	45	0	0	45	90	3	OE	40	60	100
TOTAL								180	6				

Semester VI													
Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
1.	26CE801	Project Work	PW	0	0	225	75	300	10	SD	60	40	100
TOTAL								300	10				
Total Credits of the Programmes									117				

Programme Electives

Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
1.	26CEPE01	Advanced Steel Structures	T	45	0	0	45	90	3	ES(PE)	40	60	100
2.	26CEPE02	Dynamics and Earthquake Resistant Design of Structures	T	45	0	0	45	90	3	ES(PE)	40	60	100
3.	26CEPE03	Prestressed Concrete Structures	T	45	0	0	45	90	3	ES(PE)	40	60	100
4.	26CEPE04	Advanced Concrete Design	T	45	0	0	45	90	3	ES(PE)	40	60	100
5.	26CEPE05	Design of Composite Structures	T	45	0	0	45	90	3	ES(PE)	40	60	100
6.	26CEPE06	Air Pollution Control Engineering	T	45	0	0	45	90	3	ES(PE)	40	60	100
7.	26CEPE07	Solid Waste Management	T	45	0	0	45	90	3	ES(PE)	40	60	100
8.	26CEPE08	Watershed Management	T	45	0	0	45	90	3	ES(PE)	40	60	100
9.	26CEPE09	Hazardous Waste Management	T	45	0	0	45	90	3	ES(PE)	40	60	100
10.	26CEPE10	Marine pollution Monitoring and Control	T	45	0	0	45	90	3	ES(PE)	40	60	100
11.	26CEPE11	Subsurface Investigation and Instrumentation	T	45	0	0	45	90	3	ES(PE)	40	60	100
12.	26CEPE12	Rock Mechanics and Applications	T	45	0	0	45	90	3	ES(PE)	40	60	100
13.	26CEPE13	Soil Structure Interaction	T	45	0	0	45	90	3	ES(PE)	40	60	100
14.	26CEPE14	River Engineering	T	45	0	0	45	90	3	ES(PE)	40	60	100
15.	26CEPE15	Ground Improvement Techniques	T	45	0	0	45	90	3	ES(PE)	40	60	100
16.	26CEPE16	Building Information Modelling	T	45	0	0	45	90	3	ES(PE)	40	60	100

17.	26CEPE17	High rise Buildings	T	45	0	0	45	90	3	ES(PE)	40	60	100
18.	26CEPE18	Coastal Structures	T	45	0	0	45	90	3	ES(PE)	40	60	100
19.	26CEPE19	Storage Structures	T	45	0	0	45	90	3	ES(PE)	40	60	100
20.	26CEPE20	Earth Retaining Structures	T	45	0	0	45	90	3	ES(PE)	40	60	100
21.	26CEPE21	Advanced Irrigation Engineering	T	45	0	0	45	90	3	ES(PE)	40	60	100
22.	26CEPE22	Hydrology	T	45	0	0	45	90	3	ES(PE)	40	60	100
23.	26CEPE23	Sustainable and Green Building Technology	T	45	0	0	45	90	3	ES(PE)	40	60	100
24.	26CEPE24	Formwork for Concrete Structures	T	45	0	0	45	90	3	ES(PE)	40	60	100
25.	26CEPE25	Ferrocement Technology	T	45	0	0	45	90	3	ES(PE)	40	60	100
26.	26CEPE26	Airports, Docks and Harbours Engineering	T	45	0	0	45	90	3	ES(PE)	40	60	100
27.	26CEPE27	Traffic Engineering and Management	T	45	0	0	45	90	3	ES(PE)	40	60	100
28.	26CEPE28	Advanced Surveying Techniques	T	45	0	0	45	90	3	ES(PE)	40	60	100
29.	26CEPE29	Railway Engineering	T	45	0	0	45	90	3	ES(PE)	40	60	100
30.	26CEPE30	Urban Planning & Development	T	45	0	0	45	90	3	ES(PE)	40	60	100
31.	26CEPE31	Sustainable Ground water Management	T	45	0	0	45	90	3	ES(PE)	40	60	100
32.	26CEPE32	Circular Economy in Construction	T	45	0	0	45	90	3	ES(PE)	40	60	100
33.	26CEPE33	Geotechnical Engineering for Metro	T	45	0	0	45	90	3	ES(PE)	40	60	100

Open Electives

Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
Courses Offered by the Department of Civil Engineering													
1.	26CEOE01	Environmental Management	T	45	0	0	45	90	3	OE	40	60	100
2.	26CEOE02	Repair and Rehabilitation of Building Elements	T	45	0	0	45	90	3	OE	40	60	100
3.	26CEOE03	Mechanics of Deformable Bodies	T	45	0	0	45	90	3	OE	40	60	100

Courses Offered by the Department of Computer Science and Engineering

1.	26CSOE01	Object Oriented Programming Concepts	T	45	0	0	45	90	3	OE	40	60	100
2.	26CSOE02	Operating Systems Principles	T	45	0	0	45	90	3	OE	40	60	100
3.	26CSOE03	Python Programming	T	45	0	0	45	90	3	OE	40	60	100
4.	26CSOE04	Fundamentals of Java Programming	T	45	0	0	45	90	3	OE	40	60	100
5.	26CSOE05	Data Structures using C	T	45	0	0	45	90	3	OE	40	60	100
6.	26CSOE06	Introduction to Artificial Intelligence	T	45	0	0	45	90	3	OE	40	60	100
7.	26CSOE07	Cloud Computing Fundamentals	T	45	0	0	45	90	3	OE	40	60	100

Courses Offered by the Department of Electronics and Communication Engineering

1.	26ECOE01	Fundamentals of Electron Devices	T	45	0	0	45	90	3	OE	40	60	100
2.	26ECOE02	Principles of Modern Communication Systems	T	45	0	0	45	90	3	OE	40	60	100
3.	26ECOE03	Microcontrollers and Its Applications	T	45	0	0	45	90	3	OE	40	60	100
4.	26ECOE04	Basics of Embedded Systems	T	45	0	0	45	90	3	OE	40	60	100
5.	26ECOE05	Basics of Internet of Things	T	45	0	0	45	90	3	OE	40	60	100

Courses Offered by the Department of Electrical and Electronics Engineering

1.	26EEOE01	Renewable Energy Systems	T	45	0	0	45	90	3	OE	40	60	100
2.	26EEOE02	Industrial Drives	T	45	0	0	45	90	3	OE	40	60	100
3.	26EEOE03	Electrical Energy Conservation and Management	T	45	0	0	45	90	3	OE	40	60	100
4.	26EEOE04	Fundamentals of Electric Vehicle	T	45	0	0	45	90	3	OE	40	60	100
5.	26EEOE05	Electrical Safety and Energy Auditing	T	45	0	0	45	90	3	OE	40	60	100
6.	26EEOE06	Energy Storage Systems and its Applications	T	45	0	0	45	90	3	OE	40	60	100

Courses Offered by the Department of Mechanical Engineering

1.	26MEOE01	Design of Machine Elements and Machining	T	45	0	0	45	90	3	OE	40	60	100
2.	26MEOE02	Internal Combustion Engines	T	45	0	0	45	90	3	OE	40	60	100
3.	26MEOE03	Refrigeration and Air conditioning	T	45	0	0	45	90	3	OE	40	60	100
4.	26MEOE04	Power Plant Engineering	T	45	0	0	45	90	3	OE	40	60	100
5.	26MEOE05	Hydraulics and Pneumatics	T	45	0	0	45	90	3	OE	40	60	100
6.	26MEOE06	Industrial Engineering and Management	T	45	0	0	45	90	3	OE	40	60	100
7.	26MEOE07	Renewable Energy Sources	T	45	0	0	45	90	3	OE	40	60	100
8.	26MEOE08	Robotics and Automation	T	45	0	0	45	90	3	OE	40	60	100
9.	26MEOE09	Total Quality Management	T	45	0	0	45	90	3	OE	40	60	100
10.	26MEOE10	Automotive Systems	T	45	0	0	45	90	3	OE	40	60	100

Courses Offered by the Department of Metallurgical Engineering

1.	26MTOE01	Foundry and Welding Technology	T	45	0	0	45	90	3	OE	40	60	100
2.	26MTOE02	Surface Engineering	T	45	0	0	45	90	3	OE	40	60	100
3.	26MTOE03	Design and Selection of Materials	T	45	0	0	45	90	3	OE	40	60	100
4.	26MTOE04	Nano Science and Technology	T	45	0	0	45	90	3	OE	40	60	100
5.	26MTOE05	Materials for Automobile Components	T	45	0	0	45	90	3	OE	40	60	100
6.	26MTOE06	Metallurgy for Non-metallurgist	T	45	0	0	45	90	3	OE	40	60	100

List of Industry Oriented Course

Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
1.	26CEICXX	Bar Bending and Scheduling	T	15	0	0	15	30	1	SD	100	---	100
2.	26CEICXX	AI in Civil Engineering	T	15	0	0	15	30	1	SD	100	---	100
3.	26CEICXX	Drone Surveying	T	15	0	0	15	30	1	SD	100	---	100

List of Honours Courses

Sl. No.	Course Code	Course Name
1	26CEH01	Advanced Repair & Rehabilitation of Structures
2	26CEH02	Advanced Prefabricated Structures
3	26CEH03	Advanced Finite Elements Analysis
4	26CEH04	Advanced Experimental Techniques and Instrumentation
5	26CEH05	Advanced Concrete Technology
6	26CEH06	Smart Materials and Smart Structures
7	26CEH07	Functional Planning in Building Services
8	26CEH08	Building Valuation
9	26CEH09	Environmental Impact and Risk Assessment
10	26CEH10	Unit Operations and Processes in Water and Wastewater Treatment

List of Minors Courses

Sl. No.	Course Code	Course Name
1	26CEM01	Construction Materials
2	26CEM02	Building Construction & Equipment's
3	26CEM03	Concrete Technology
4	26CEM04	Environmental Engineering
5	26CEM05	Basics of Transportation Engineering
6	26CEM06	Repair and Rehabilitation of Structures
7	26CEM07	Green Building Technology

Civil Engineering Courses handled to other Departments - 2026 R Curriculum

Semester I													
Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
1.	26CE307	Mechanics of Deformable bodies	T	45	15	0	60	120	4	ES(G)	40	60	100

B.E. Mechanical Engineering

Semester I													
Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
1.	26CE306	Strength of Materials and Fluid Mechanics Laboratory	L	0	0	45	15	60	2	ES(PC)	60	40	100

All Departments

Semester II													
Sl. No.	Course Code	Course Name	Course Type	Hours per Semester					Credits	Category	Weightage		
				L	T	P	SL	TH			CA %	ES %	Total
1.	26MCC03	Disaster Management and Preparedness	T	30	0	0	30	60	0	MC	100	-	100