

**PSN COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)**



**MELATHEDIYOOR -627152**

**UG DEGREE PROGRAMME CURRICULUM**

**(III - VIII SEMESTER )**

**B.E. CIVIL ENGINEERING (REGULATION 2014)**

**SEMESTER III**

<b>Code No.</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>THEORY</b>					
201001	Applied Mathematics - II (Differential Equation & Fourier series)	3	1	0	4
202001	Construction Materials & Geology	3	0	0	3
202002	Concrete Technology	3	0	0	3
202003	Mechanics of Solids	3	1	0	4
202004	Fluid Mechanics	3	1	0	4
202005	Engineering Surveying– I	3	0	0	3
201801	Environmental Studies*	2	0	0	2
<b>PRACTICAL</b>					
202101	Engineering Survey Practical – I	0	0	4	2
202102	Computer Aided Building Drawing	0	0	3	2
<b>Total</b>		<b>18</b>	<b>3</b>	<b>7</b>	<b>25</b>

\* *Mandatory courses*

**SEMESTER IV**

<b>Code No.</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>THEORY</b>					
	Applied Mathematics – III ( Transformation Techniques & Application of Partial differential equation)	3	1	0	4
	Soil mechanics	3	0	0	3
	Strength of Materials	3	1	0	4
	Hydraulics & Hydraulic Machines	3	0	0	3
	Engineering Surveying – II	3	0	0	3
	Transportation Engineering – I	3	0	0	3
<b>PRACTICAL</b>					
	Engineering Survey Practical –II	0	0	4	2
	Hydraulics & Hydraulic Machines laboratory	0	0	3	2
	Strength of Materials Lab	0	0	3	2
<b>Total</b>		<b>18</b>	<b>2</b>	<b>10</b>	<b>26</b>

## SEMESTER V

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
	Probability and Statistics	3	1	0	4
	Structural analysis – I	3	1	0	4
	Transportation Engineering – II	3	0	0	3
	Design of RC Elements	3	0	0	3
	Foundation Engineering	3	0	0	3
#	Open Elective – I	3	1	0	4
	Value Education, Human Rights and Legislative Procedures*	2	0	0	2
<b>PRACTICAL</b>					
	Concrete and Highway Engineering Lab	0	0	3	2
	Soil Mechanics laboratory	0	0	3	2
	Survey Camp ( 10 days)	-	-	-	2
<b>Total</b>		<b>18</b>	<b>3</b>	<b>6</b>	<b>27</b>

\* *Mandatory courses*

## SEMESTER VI

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
	Principle of Management and Engineering Economics	3	0	0	3
	Structural Analysis – II	3	1	0	4
	Design of Steel Structures	3	1	0	4
	Construction techniques Equipment and Practice	3	0	0	3
	Environmental Engineering	3	0	0	3
#	Open Elective – II	3	1	0	4
<b>PRACTICAL</b>					
	English language lab for Engineers	0	0	4	2
	Environmental Engineering Laboratory	0	0	3	2
	Estimation and Quantity Surveying	0	1	3	2
<b>Total</b>		<b>18</b>	<b>4</b>	<b>10</b>	<b>27</b>

### SEMESTER VII

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
	Design of RC and Brick Masonry	3	1	0	4
	Irrigation and Water Resources Engineering	3	0	0	3
	Dynamics and seismic design of structures	3	0	0	3
	Prestressed Concrete Structures	3	1	0	4
##	Elective – I	3	0	0	3
##	Elective – II	3	0	0	3
	Energy Studies (or) Technical Communication and Soft Skills*	2	0	0	2
<b>PRACTICAL</b>					
	Computer Aided Design and Drafting Laboratory	0	0	4	2
	Design Project	0	0	4	2
<b>Total</b>		<b>18</b>	<b>2</b>	<b>8</b>	<b>24</b>

\* *Mandatory courses*

### SEMESTER VIII

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
###	Elective – III	3	0	0	3
###	Elective – IV	3	0	0	3
<b>PRACTICAL</b>					
	Project Work	0	0	12	6
<b>Total</b>		<b>6</b>	<b>0</b>	<b>12</b>	<b>12</b>

**TOTAL CREDIT : 141**

## LIST OF OPEN ELECTIVES

### # SEMESTER V AND VI ELECTIVES

#### OPEN ELECTIVES – I AND II:

Code No.	Course Title	L	T	P	C
	Disaster Management	3	1	0	4
	Environmental Impact Assessment	3	1	0	4
	Construction Planning and Scheduling	3	1	0	4

## LIST OF ELECTIVES

### ## - SEMESTER VII ELECTIVES

#### ELECTIVES I:

Code No.	Course Title	L	T	P	C
	Traffic Engineering Management	3	0	0	3
	Housing Planning & Management	3	0	0	3
	Ground Improvement Techniques	3	0	0	3
	Environmental Impact Assessment of Civil Engineering Projects	3	0	0	3
	Hydrology	3	0	0	3
	Remote Sensing Techniques and GIS	3	0	0	3

#### ELECTIVES II:

Code No.	Course Title	L	T	P	C
	Ground Water Engineering	3	0	0	3
	Coastal Zone Management	3	0	0	3
	Advanced design of RCC Structure	3	0	0	3
	Air Pollution Management	3	0	0	3
	Municipal Solid Waste Management	3	0	0	3
	Total Quality Management	3	0	0	3

### ### - SEMESTER VIII ELECTIVES

#### ELECTIVES III:

<b>Code No.</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	Bridge Structures	3	0	0	3
	Storage Structures	3	0	0	3
	Tall Buildings	3	0	0	3
	Prefabricated structures	3	0	0	3
	Industrial Waste Management	3	0	0	3
	Architecture	3	0	0	3
	Construction planning and scheduling	3	0	0	3

#### ELECTIVES IV:

<b>Code No.</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	Computer Aided Design of Structures	3	0	0	3
	Industrial Structures	3	0	0	3
	Finite Element Techniques	3	0	0	3
	Repair and Rehabilitation of Structures	3	0	0	3
	Earthquake Geotechnical Engineering	3	0	0	3
	Fundamentals of NanoTechnology	3	0	0	3
	Construction Project Management	3	0	0	3