

Semester VIII

Subject Code	Subject Name	Credits
CE-E804	Elective-II: Industrial Waste Treatment	05

Teaching Scheme

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorials	Total
04	02	--	04	01	--	05

Evaluation Scheme

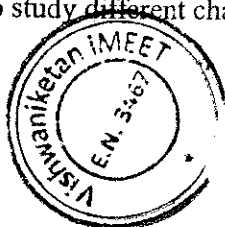
Theory					Term Work/ Practical/Oral			Total
Internal Assessment			End Sem Exam	Duration of End Sem Exam	TW	PR	OR	
Test 1	Test 2	Average						
20	20	20	80	03	25	--	25	150

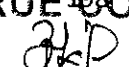
Rationale

This subject deals with sampling, manufacturing process and treatment of different industrial waste. Industrial waste waters are generally much more polluted than the domestic or even commercial wastewaters. Such industrial wastewaters cannot always be treated easily by the normal methods of treating domestic wastewaters, and certain specially designed methods. In order to achieve this aim, it is generally always necessary, and advantageous to isolate and remove the troubling pollutants from the wastewaters, before subjecting them to usual treatment processes. Thus Wastewater treatment is closely related to the standards and/or expectations set for the effluent quality. Wastewater treatment processes are designed to achieve improvements in the quality of the wastewater.

Objectives

- To study different characteristics of liquid waste generated from different industries.

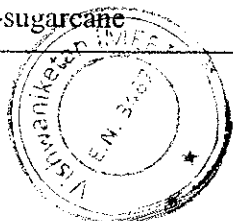


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- To study the effect of disposal of liquid waste into natural water course, municipal sewer and on land
- To study general treatment of industrial wastes like neutralization, equalization and segregation.
- To study the conventional aerobic and anaerobic biological treatment methods

Detailed Syllabus

Module	Sub- Modules/Contents	Periods
I.	General: Liquid wastes from industries – their volumes and characteristics, Effect of disposal into natural water courses, Municipal sewers and on land, River standards and effluent standards.	04
II.	Sampling and analysis of industrial wastes, Treatability study, good housekeeping, bioassay test, population equivalence.	04
III.	Stream sanitation: Effects of industrial wastes on self-purification of streams and fish life, Statement and significance of the parameters of Streeter and Phelp's equation and BOD equations, Deoxygenating and reaeration , Oxygen sag and numericals based on this.	08
IV.	General treatment of industrial wastes: Neutralization, equalization, segregation. Modification of conventional aerobic and anaerobic biological treatment methods. Dewatering and disposal of sludges – floatation, vacuum filtration, centrifugation, filter press and membrane filters.	08
V.	Detailed consideration of wastes produced from following industries: Manufacturing processes normally followed , Volume and effects of raw and treated effluent on streams, sewers, characteristics of effluents and land Treatment methods, reuse-recovery 1)Textiles: cotton 2)Pulp and paper:- Sulphate process 3)Electroplating 4)Dairy 5)Sugar-sugarcane	18



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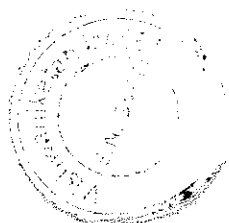
	6) Distilleries 7) Tanneries 8) Refineries	
VI.	Provision of various acts pertaining to industrial wastes / effluents, introduction to environmental impact assessment and environmental audit.	06
VII.	Common Effluent Treatment Plants (CETPs): Location, Need, Design, Operation and Maintenance Problems and Economical aspects.	04

Contribution to outcomes

On completion of this course, the students shall have an ability to understand the industrial waste sources, effects and its treatment. The students shall understand the various methods of disposal of industrial waste. They shall further have an understanding of the nature and characteristics of industrial waste and regulatory requirements regarding industrial waste treatment and lastly, they will have an ability to plan industrial waste minimization.

Theory Examination:-

1. Question paper will comprise of six questions; each carrying 20 marks.
2. The **first** question will be **compulsory** which will have the short questions having weightage of 4-5 marks covering the entire syllabus.
3. The remaining **five** questions will be based on all the modules of the entire syllabus. For this, the modules shall be divided proportionately further; and the weightage of the marks shall be judiciously awarded in proportion to the importance of the sub-module and contents thereof.
4. There can be an **internal** choice in various sub-questions/ questions in order to accommodate the questions on all the topics/ sub-topics.
5. The students will have to attempt any **three** questions out of remaining five questions.
6. Total **four** questions need to be attempted.



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Oral Examination:

The oral Examination shall be based upon the entire syllabus and the term work.

Site Visit/ Field Visit:

The students will visit any industrial/hazardous/municipal solid waste comprising source, characterization, transportation, recycles, treatment and disposal.

Term Work:

The term-work shall comprise of the neatly written assignments. The assignments shall be given covering the entire syllabus in such a way that the students would attempt at least four problems and/or questions on each modules/ sub-modules and contents thereof, further. In addition to the assignments, each student shall prepare a report on visit to the site mentioned in the preceding section.

Distribution of Term Work Marks:

The marks of the term work shall be judiciously awarded for the various components depending upon its quality. The final certification and acceptance of term work warrants the satisfactory completion of the assignments, proper compilation of the report on the site visit; and further, minimum passing marks to be obtained by the student.

The following weightage of marks shall be given for different components of the term work:

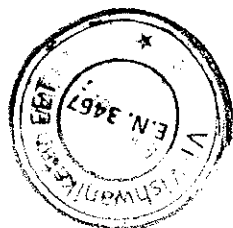
1. Tutorial and Assignments: 16 Marks
2. Report on the site visit : 04 Marks
3. Attendance: 05 Marks

Further, while giving weightage of marks on the attendance, following guidelines shall be resorted to.

75%- 80%: 03 Marks; 81%- 90%: 04 Marks; 91% onwards: 05 Marks

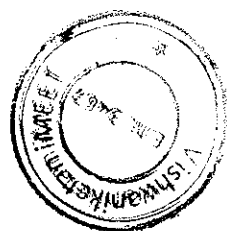
Recommended Books:-

1. Waste Water Treatment: *Rao and Datta*, Oxford and IBH Publishing Co.
2. Environmental Pollution and Control in Chemical Process Industries: *Bhatia, S. C.*, Khanna Publication.
3. Industrial Water Pollution Control: *Eckenfelder Jr, W. W.*, Mc Graw Hill.



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4. Industrial Water Pollution Management: *Gurnham, E. F.*, John Wiley.
5. Biological Waste Treatment: *Eckenfelder and Connor*, Pergamon Press.
6. Theories and Practices of Industrial Waste Treatment: *Addisoon Wesley*.
7. Pollution Control in Process Industries: Mahajan, S. P., Tata McGraw Hill.
8. Industrial Waste: *Rudolfs, W.(Ed)*, L E C Publishers Inc.
9. The Treatment of Industrial Wastes: *Besselièvre, E. D.*, Mcgraw Hill.
10. Industrial Waste Disposal: *Ross, R. D. (Ed)*, Reinhold Bok Croperation.



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Semester IV

Subject Code	Subject Name	Credits
CE -C 405	Concrete Technology	4

Teaching Scheme

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorials	Total
03	02	-	03	01	-	04

Evaluation Scheme

Theory					Term Work/ Practical/Oral			Total
Internal Assessment			End Sem	Duration of End	TW	PR	OR	
Test 1	Test 2	Average	Exam	Sem Exam				
20	20	20	80	03 Hrs.	25	-	25	150

Rationale

Basic concept of concrete technology is essential for civil engineering students to execute the civil engineering projects as per the standard laid down time to time. The concrete technology is the backbone of infrastructure of civil engineering field. The students must know various concreting operations and testing operations during and after construction. It is expected to know the properties of materials, especially concrete and to maintain quality in construction projects. The civil engineering students ought to know the selection of materials, its mix proportioning, mixing, placing, compacting, curing and finishing.

Objectives

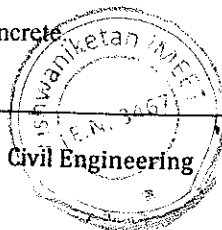
- To study the properties of fresh and hardened concrete.
- To study the properties such as workability, durability and porosity.
- To acquaint the practical knowledge by experimental processes of various materials required for concrete
- To implement the knowledge of high strength and high performance concrete used in various civil engineering structures.
- To understand the concept and optimization of mix design for different environmental conditions.

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Detailed Syllabus

Module	Sub-Modules/Contents	Periods
I.	1. Ingredients of concrete	06
	1.1 Cement Physical properties of cement as per IS Codes, types of cements and their uses.	
	1.2 Aggregates Properties of coarse and fine aggregates and their influence on properties of concrete, properties of crushed aggregates.	
II.	2. Concrete	08
	2.1 Grades of concrete, Manufacturing of concrete, importance of w/c ratio.	
	2.2 Properties of fresh concrete- workability and factors affecting it, consistency, cohesiveness, bleeding, segregation.	
	2.3 Properties of hardened concrete- Compressive, Tensile and Flexural strength, Modulus of Elasticity, Shrinkage and Creep.	
	2.4 Durability- Factors affecting durability, Relation between durability and permeability, laboratory tests on durability such as Permeability test, Rapid chloride penetration test.	
	2.5 Concreting in extreme weather conditions, under-water concreting.	
III.	Concrete mix design	05
	Mix design for compressive strength by I.S. method, Mix design for flexural strength, Method of determining compressive strength of accelerated-cured concrete test specimens as per IS:9013-2004	
IV.	High performance and High strength concrete	06
	Constituents of high performance and high strength concrete, various tests and their applications.	
	Admixtures Plasticizers, Super-plasticizers, Retarders, Accelerators, Mineral admixtures and other admixtures, test on admixtures, chemistry and compatibility with concrete.	
V.	Special concretes	08
	Light weight concrete, High density concrete, No fines concrete, Fiber reinforced concrete, Polymer concrete-types, Ferrocement, Shotcrete, Self compacting concrete, Reactive powder concrete, Bendable concrete, Bacterial concrete, Roller compacted concrete, Translucent concrete	



	Ready mix concrete	
	Advantages of RMC, components of RMC plant, distribution and transport, handling and placing, mix design of RMC.	
VII	Non-Destructive testing of concrete	07
	Hammer test, ultrasonic pulse velocity test, load test, carbonation test, ½ cell potentiometer test, core test and relevant provisions of I.S. codes.	
	Repairs and rehabilitation of concrete structures	
	Disress in concrete structures, causes and prevention, damage assessment procedure, crack repair techniques , concept of retrofitting	

Contribution to Outcomes

On completion of the course, the students shall be able to:

- Identify the properties of ingredients of concrete
- Know the properties of wet concrete, hardened concrete, high strength and high performance concrete
- Design the concrete mix for various grades
- Get acquainted with the various types of special concrete
- Perform various test on concrete
- Execute concreting in extreme weathers and under water

Theory examination:

1. The question paper will comprise of **six** questions; each carrying 20 marks.
2. The **first** question will be **compulsory** and will have short questions having weightage of 4-5 marks covering the entire syllabus.
3. The remaining five questions will be based on all the modules of the entire syllabus. For this, the modules shall be divided proportionately and further, the weightage of the marks shall be judiciously awarded in proportion to the importance of the sub-module and contents thereof.
4. The students will have to attempt **any three** questions out of remaining five questions.
5. Total **four** questions need to be attempted.

Oral Examination:

The oral examination shall be based on the entire syllabus and the report of the experiments conducted by the students including assignments.

List of Practicals (Any Eight to be performed):

1. Effect of w/c ratio on workability (slump cone, compaction factor, V-B test, flow table)
2. Effect of w/c ratio on strength of concrete,
3. Mix design in laboratory.
4. Modulus of rupture of concrete.
5. Study of admixtures and their effect on workability and strength of concrete
6. Secant modulus of elasticity of concrete and indirect tensile test on concrete
7. Permeability test on concrete.
8. Rapid chloride penetration test
9. Tests on polymer modified concrete/mortar.
10. Tests on fiber-reinforced concrete.
11. Non destructive testing of concrete- some applications (hammer, ultrasonic)

Industrial/ Site Visit:

At least one visit shall be arranged to the plant or industry such as RMC plant, cement manufacturing industry, stone quarry. A visit may also be arranged to the site involving repairs and rehabilitation of concrete structures. The students shall prepare detail report of the visit and this report shall form the part of the term work.

Term Work:

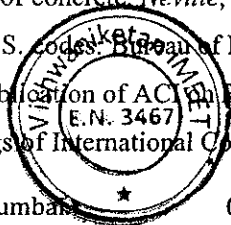
The term work shall comprise of the neatly written report based on the afore-mentioned experiments (at least eight) and ten assignments covering the entire syllabus divided properly module wise.

Distribution of the Term Work Marks:

The marks of the term work shall be judiciously awarded for the various components of the term work and depending upon the quality of the term work. The final certification and acceptance of term work warrants the satisfactory performance of laboratory work by the student, appropriate completion of the assignments.

Recommended Books:

1. Concrete Technology: *A. R. Shanthakumar*, Oxford University Press.
2. Concrete Technology Theory and Practice: *Shetty M.S.*, S. Chand.
3. Properties of concrete: *Neville*, Isaac Pitman, London.
4. Relevant I.S. codes. Bureau of Indian standard.
5. Special Publication of ACI on Polymer concrete and FRC.
6. Proceedings of International Conferences on Polymer Concrete and FRC.



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7. Concrete Technology: *Gambhir M.L.*, Tata McGraw Hill, New Delhi.
8. Concrete Technology: *Neville A.M. & Brooks. J. J.*, ELBS-Longman.
9. Chemistry of Cement and Concrete: *F.M. Lue*, Edward Arnold, 3rd Edition, 1970.
10. Concrete Technology: *D.F. Orchard*, Wiley, 1962.
11. Tentative Guidelines for cement concrete mix design for pavements (IRC: 44-1976): Indian Road Congress, New Delhi.
12. Repairs and Rehabilitation – Compilation from Indian congress Journal: ACC Pub.
13. Method making, curing and determining compressive strength of accelerated-cured concrete test specimens as per IS: 9013-2004.
14. Concrete mix proportioning-guidelines (IS 10262:2009).



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Semester III

Subject Code	Subject Name	Credits
CE-C 305	Engineering Geology	4

Teaching Scheme

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorials	Total
03	02	-	03	01	-	04

Evaluation Scheme

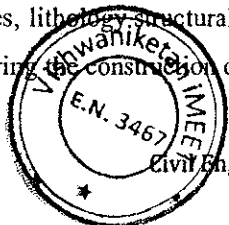
Theory					Term Work/ Practical/Oral			Total
Internal Assessment			End Sem	Duration of End	TW	PR	OR	
Test 1	Test 2	Average	Exam	Sem Exam				
20	20	20	80	03 Hrs.	25	-	25	150

Rationale

The study of Geology helps to understand about geological formations, classifications and morphology of rocks, physical properties of minerals and the importance of the study of Geology for civil engineers with regard to founding the structures like dams, bridges, buildings etc. It also gives the ideas about geological formations in causing earthquake and landslides.

Objectives

- Study of importance of geological studies in various civil engineering projects and Interior of the earth.
- Study of physical geology including geological action of river, wind, glacier, volcano earthquake and weathering.
- Study of minerals and rocks with classification, structure, texture and origin.
- Study of structural geology including geological structure like fold, fault, joint, etc.
- Study of geological history of peninsular India with economic minerals and building stones of India.
- Study of methods of surface and subsurface investigation and their importance.
- Study of types, lithology, structural conditions, advantages, difficulties, significance of geological structures during the construction of dam and tunnel.



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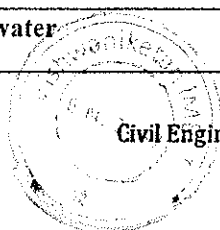
- Study of ground water zones, factors controlling water bearing capacity of rocks, geological work of ground water and springs
- Study of types, causes, preventive measures for landslides.
- Study of building stones with geological and engineering properties.

Detailed Syllabus

Module	Sub-Modules/Contents	Periods
I	1. Introduction	01
	1.1 Branches of geology useful to civil engineering, Importance of geological studies in various civil engineering Projects.	
	1.2 Internal structure of the Earth and use of seismic waves in understanding the interior of the earth	
	2. General and Physical Geology	08
	2.1 Agents modifying the earth's surface, study of weathering and its significance in engineering properties of rocks like strength, water tightness and durability etc.	
	2.2 Brief study of geological action of river, wind, glacier, ground water and the related land forms created by them.	
	2.3 Volcano- Central type and fissure type, products of volcano, volcanic land forms.	
2.4 Earthquake - Earthquake waves, construction and working of seismograph, Earthquake zones of India, elastic rebound theory Preventive measures for structures constructed in Earthquake prone areas.		
II	3. Mineralogy	01
	Identification of minerals with the help of physical properties, rock forming minerals, megascopic identification of primary and secondary minerals, study of common ore minerals	
	4. Petrology	06
Study of igneous, sedimentary and metamorphic rocks, distinguishing properties among these three rocks to identify them in fields.		
	4.1 Igneous Petrology - Mode of formation, Texture and structure, Classifications, study of common occurring igneous rocks.	



	4.2	Sedimentary Petrology - Mode of formation , Textures, characteristics of shallow water deposits like lamination, bedding, current bedding etc., residual deposits, chemically formed and organically deposits, classification and study of commonly occurring sedimentary rocks.	
	4.3	Metamorphic Petrology - Mode of formation, agents and types of metamorphism, metamorphic minerals, rock cleavage, structures and textures of metamorphic rocks, classification and study of commonly occurring metamorphic rocks.	
III	5. Structural Geology		03
	Structural elements of rocks, dip, strike, outcrop patterns unconformities, outliers and inlier, study of joints. Faults and folds, importance of structural elements in engineering operations.		
	6. Stratigraphy and Indian Geology		02
	General principles of Stratiagraphy, geological time scale, Physiographic divisions of India and their characteristics. Stratiagraphy of Maharashtra		
IV	7. Geological Investigation		04
	7.1	Preliminary Geological Investigation and their importance to achieve safety and economy of the projects supporting dams and tunnel projects ,methods of surface and subsurface investigations, excavations-Trial pit, trenches etc.	
	7.2	Core Drilling - Geological logging, Inclined Drill holes. Electrical Resistivity method, Seismic method and their applications.	
	7.3	Use of Aerial photographs, Satellite imageries in civil engineering projects.	
	8. Geology of dam and reservoir site:		04
	8.1	Strengths, stability, water tightness over the foundation rocks and its physical characters against geological structures at dam sites, favorable and unfavorable conditions for locating dam sites.	
	8.2	Precautions over the unfavorable geological structures like faults , dykes , joints, unfavorable dips on dam sites and giving treatments, structural and erosional valleys.	
V	9. Tunneling		03
	Importance of geological considerations while choosing tunnel sites and alignments of the tunnel, safe and unsafe geological and structural conditions, Difficulties during tunneling and methods to overcome the difficulties.		
	10. Ground water		03



	10.1	Sources, zones, water table, unconfined and Perched water tables. Factors controlling water bearing capacity of rocks, Pervious and Impervious rocks, Cone of depression and its use in Civil engineering. Geological work of groundwater, Artesian well.	
	10.2	Springs seepage sites and geological structures. Different types of rocks as source of ground water	
VI	11. Recharge of ground water		03
	Methods of artificial recharge of ground water, geology of percolation tank.		
	12. Land slides		
	Types, causes and preventive measures for landslides, Landslides in Deccan region.		
	13. Building stones		01
	Requirements of good building stones and its geological factors, controlling properties, consideration of common rocks as building stones, study of different building stones from various formations of Indian Peninsula,		

Contribution to Outcomes

On completion of the course, the students shall be able to:

- Understand the interior structure of the earth and seismological evidences.
- Identify various landforms which are created by geological agents like wind, river, glaciers, volcanoes and earthquake.
- Recognize various types of minerals with physical properties, rocks with their textures, structures and origin. Also use of common building stones.
- Understand geological structure like folds, faults, joints, unconformity etc. knowledge of which is very essential in the design and construction of dams, tunnels etc.
- Understand surface and subsurface strata, the sources and zones of ground water.
- Apply the preventive measures for landslide and earthquake prone areas.
- Take a self decision to make his report over the site with the Geological ingredients and information, up to the need of project aim.

Theory examination:

1. The question paper will comprise of six questions; each carrying 20 marks.
2. The first question will be compulsory and will have short questions having weightage of 4-5 marks covering the entire syllabus.

3. The remaining five questions will be based on all the modules of the entire syllabus. For this, the modules shall be divided proportionately and further, the weightage of the marks shall be judiciously awarded in proportion to the importance of the sub-module and contents thereof.
4. The students will have to attempt **any three** questions out of remaining five questions.
5. Total **four** questions need to be attempted.

Oral Examination:

Oral examination will be based on the entire syllabus and a neatly written report for the practicals along with a report of the site visit.

List of Practicals:

1. Study of physical properties of the minerals.
2. Identification of minerals- Quartz and its varieties, Orthoclase, Plagioclase, Muscovite, Biotite, Hornblende, Asbestos, Augite, Olivin, Tourmaline, Garnet, Actinolite, Calcite, Dolomite, Gypsum, Beryl, Bauxite, Graphite, Galena, Pyrite, Hematite, Magnetite, Chromite, Corundum, Talc, Fluorite, Kyanite.
3. Identification of rocks: *Igneous rocks*- Granite and its varieties, Syenite, Diorite, Gabbro, Pegmatite, Porphyry, Dolerite, Rhyolite, Pumice, Trachyte, Basalt and its varieties, Volcanic Breccia, Volcanic tuffs. *Sedimentary Rocks*- Conglomerate, Breccia, Sandstone and its varieties, Shales, Limestones, Laterites. *Metamorphic Rocks*- Mica Schists, Hornblende Schists, Slate, Phyllite, Granite Gneiss, Augen gneiss, Marbles and Quartzite.
4. Study of Geological maps (At least 5).
5. Study of core samples, RQD, Core logging.
6. At least two engineering problems based on field data collected during site investigation.

Term Work:

The term work shall consist of the:

- Report of the practical conducted in terms of the study of the physical properties of the minerals, identification of minerals and rocks.
- Report of the Geological maps
- Report of the two problems based on field data.
- At least *eight* assignments covering entire syllabus



Site Visit:

There shall be a visit to get the geological information according to the various contents mentioned in the syllabus. The students shall prepare a detail report thereof along with the summarized findings. The report will form a part of the term work.

Distribution of the Term Work Marks.

The marks of the term work shall be judiciously awarded for the various components of the term work and depending upon the quality of the term work. The final certification and acceptance of term work ensures the satisfactory performance of laboratory work.

Recommended Books:

1. Text book of Engineering Geology: *Dr. R. B. Gupte*, Pune, Vidyarthi Griha Prakashan, Pune.
2. Text book of Engineering Geology: *P. K. Mukerjee*, Asia.
3. Text book of Engineering and General Geology: *Parbin Singh*, Carson Publication.
4. Text book of Engineering Geology: *N. Chenna, Kesavulu*, Mc-Millan.
5. Principles of Engineering Geology: *K. M. Banger*.

Reference Books:

1. Principles of Physical Geology: *Arthur Homes*, Thomas Nelson Publications, London.
2. Principles of Geomorphology: *William D. Thornbury*, John Wiley Publications, New York.
3. Geology for Civil Engineering: *A. C. McLean, C.D. Gribble*, George Allen & Unwin London.
4. Engineering Geology: *A Prrthsarathy, V. Panchapakesan, R. Nagarajan*, Wiley India 2013.



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Semester VI

Course Code	Subject Name	Credits
CEC605	Environmental Engineering – I	4

Teaching Scheme

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorials	Total
04	02	--	03	01	--	04

Evaluating scheme

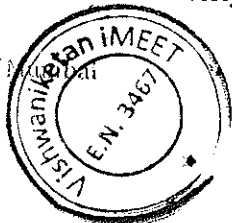
Theory				End Sem Exam	Duration of End sem exam	Term Work/ Practical/Oral			Total
Internal Assessment			TW			PR	OR		
Test 1	Test 2	Average							
20	20	20	80	03 HRS	25	--	25	150	

Rationale

Environmental engineering is important for all human endeavors not simply about construction within the environment. This subject lays emphasis on the practical application of knowledge, while at the same time recognizing the importance of theoretical knowledge in developing the intellectual capacity of the engineer. Knowledge of this subject is useful for planning, designing, execution monitoring water supply sanitary schemes for the towns/cities.

Objectives

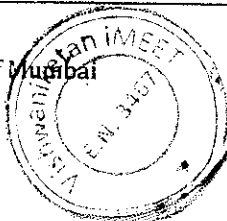
- To prepare students who can accomplish planning, design & construction of water systems & related infrastructural facilities.
- To give a practical orientation to so that they can give practical solutions to environmental problems in our society.



- To inculcate the students with sound theoretical knowledge in engineering sciences as well as in research consultancy skills.
- To impart positive responsive vocational attitudes, initiative creative thinking in their mission as engineers.

Detail Syllabus

Module	Sub Modules/Contents	Periods
1	Water	
1.1	Man's environment; Importance of environmental sanitation Water supply systems: need for planned water supply schemes, Sources of water, components of water supply system determination of their design capacities, Quantity of water, Water demand, Population forecasting methods with numerical. Types of Intake structures.	05
1.2	Distribution systems: Requirements of good distribution systems. Lay out of distribution networks, advantage, disadvantages, Methods of distribution. Design of distribution networks (Hardy cross method)	06
1.3	Quality of water: wholesomeness palatability, physical, chemical, Biological standards. Treatment of water; impurities in water- processes for their removal- typical flow sheets. Sedimentation : Theory of sedimentation, Types, factors affecting efficiency, design of sedimentation tank, tube settlers Coagulation flocculation ; mechanisms, common coagulations, rapid mixing flocculating devices, G GT values, Jar test, coagulant aids – Polyelectrolyte etc. Filtration : classification, slow and rapid sand filters, dual media filters, gravel under drainage system, mode of action, cleaning, limitations, operational difficulties, performance, basic design consideration, pressure filters: construction & operation. Water softening: lime soda base exchange methods, Principle reactions, design considerations, sludge disposal.	30



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	<p>Miscellaneous Treatments : removal of Iron, Manganese, taste, odour, colour, principles methods, de-fluoridation, reverse osmosis</p> <p>Disinfection : chlorination, chemistry of chlorination, kinetics of disinfection, chlorine demand, free combined chlorine, break point chlorination, super chlorination, dechlorination, chlorine residual, uses of iodine, ozone, ultra violet rays, chlorine dioxide as disinfectants, well water disinfection</p>	
2	<p>Municipal solid waste management</p> <p>Solid waste : Sources, Types , composition, Physical biological properties of solid wastes, sources types of hazardous infectious wastes in municipal solid wastes</p> <p>Solid waste generation collection, storage, handling , transportation, processing</p> <p>Treatment disposal methods</p> <p>Material separation recycle, physic- chemical biological stabilization solidification thermal methods, of disposal, site remediation, leachate & its control.</p> <p>Hazardous wastes: Effects of hazardous waste on environment & its disposal</p>	04
3	<p>Building water supply:</p> <p>Introduction, per capita supply, service connections from main, storage of water supply systems in a building, sizing of pipes, water meters</p> <p>Fixtures and fittings: Introduction, classification of fixtures, special accessories, fittings. Pipe material, Joints, Valves.</p> <p>Design of pipes, primary & secondary branches, Laying of pipes, testing and maintenance of pipes.</p>	03



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Outcomes

On completion of this course, the students will have an ability to understand the water quality criteria and standards and further, to design the water treatment plant and water distribution system. The students will understand the various methods of disposal of solid waste. They will have an understanding of the nature and characteristic of solid waste and regulatory requirements regarding solid waste management and further, they will have an ability to plan waste minimization. Besides, they will be prepared to contribute practical solutions to environmental problems in our society.

Theory Examination:-

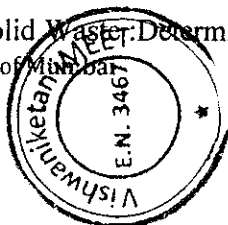
1. Question paper will comprise of **six** questions; each carrying 20 marks.
2. The **first** question will be **compulsory** which will have the short questions having weightage of 4-5 marks covering the entire syllabus.
3. The **remaining five** questions will be based on all the modules of entire syllabus. For this, the module shall be divided proportionately further, the weightage of the marks shall be judiciously awarded in proportion to the importance of the sub-module contents thereof.
4. The students will have to attempt **any three** questions out of **remaining five** questions.
5. **Total four** questions need to be attempted.

Oral Examination:

The oral examinations shall be based on the entire syllabus, the report of the experiments conducted by the students including assignments and the report of the visit to the Sewage Treatment Plant.

List of Practicals: *(Any eight experiments are to be performed)*

1. Determination of Alkalinity in water
2. Determination of Hardness in water
3. Determination of pH in water
4. Determination of Turbidity in water
5. Determination of Optimum dose of coagulant by using Jar Test Apparatus
6. Determination of Residual chlorine in water
7. Solid Waste : Determination of pH
8. Solid Waste: Determination of moisture content



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9. Most probable Number
10. Determination of chlorides in water

Term work:-

The termwork shall include the reports on experiments performed in the laboratory and the brief report on the visit to sewage treatment plant.

Distribution of Term Work Marks:

The marks of the term work shall be judiciously awarded for the various components depending upon the quality of the term work. The final certification acceptance of term work warrants the satisfactory performance of the experiments by the student, properly compiled report thereof and the report on the site visit and the minimum passing marks to be obtained by the student. The following weightage of marks shall be given for different components of the term work.

- Report of the Experiments: 12 Marks
- Report on the visit to Sewage Treatment Plant : 08 Marks
- Attendance: 05 Marks

Further, while giving weightage of marks on the attendance, following guidelines shall be resorted to.

- 75%- 80% : 03 Marks; 81%- 90%: 04 Marks 91% onwards: 05 Marks

Recommended Books:-

1. Water Supply and Sanitary Engineering: *S. K. Hussain*, Oxford & IBH Publication, New Delhi.
2. Manual on Water Supply Treatment (Latest Ed.): Ministry of & Housing. New Delhi
3. Plumbing Engineering Theory and Practice: *S.M. Patil*, Seema Publications, Mumbai
4. Water Supply and Sewage: *E.W. Steel*, Mc-Graw Hill Publications, New York.
5. Water Supply and Sewage: *T.J. McGhee*, McGraw Hill Publications, New York
6. CPHEEO Manual on Water Supply and Treatment
7. Water Supply Engineering- *P. N. Modi*
8. Water Supply Engineering: *S.K. Garg*, Khanna Publishers, Delhi
9. Introduction to Environmental engineering: *Vesilind*, PWS Publishing Company.



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10. Water supply and pollution control: *J.W. Clark, W. Veisman and M.J. Hammer*, International Texbook Company.
11. Relevant Indian standard specifications.
12. Integrated Solid Waste Management: *Tchobanoglous Theissen Vigil*, Mc-Graw Hill Publications, New York.
13. Solid Waste Management in Developing Countries: *A.B. Bhide and B.B. Sundaresan*.
14. Manual on Municipal Solid Waste Management: Ministry of Urban Development, New Delhi.
15. Environmental Pollution: *Gilbert Masters*
16. Basic Environmental Engineering: *Nathanson J.A.*; Prentice Hall of India Publications



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Semester VII

Subject Code	Subject Name	Credits
CE-E705	Elective-I: Solid Waste Management	05

Teaching Scheme

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorials	Total
04	02	--	04	01	--	05

Evaluation Scheme

Theory					Term Work/ Practical/Oral			Total
Internal Assessment			End Sem Exam	Duration of End Sem Exam	TW	PR	OR	
Test 1	Test 2	Average						
20	20	20	80	03	25	--	25	150

Rationale

This course will be of interest to those who wish to understand the principles and techniques of solid waste management, including the legislative, environmental, economic and social drivers. The course also provides the opportunity to visit recycling facilities and disposal sites to better understand links between theory and practice. This subject deals with control of generation, storage and collection, transfer, processing and disposal of solid waste in a manner in which it benefits public health economics, conservation aesthetics and other environmental considerations.

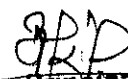
Objectives

- To understand the implications of the production, resource management and environmental impact of solid waste management.



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45


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- To understand the components of solid waste management infrastructure systems to minimize the above effects.
- To be aware of the significance of recycling, reuse and reclamation of solid wastes.
- To be familiar with relationships between inappropriate waste management practices and impacts on water, soil and sediment quality.
- To fully appreciate the current practices available and implement the systems available in solid waste management.
- To be capable of carrying out an assessment of the relationships between environmental guidelines, human activities and environmental quality of impacted soils and water.
- To study the different storage and collection method of the solid waste management.

Detailed Syllabus

Module	Sub-Modules/Contents	Periods
1.	Introducing Municipal Solid Waste Management Overview: problems and issues of solid waste management - Need for solid waste management-Functional elements such as waste generation, storage, collection, transfer and transport, processing, recovery and disposal in the management of solid waste.	05
2.	Generation and Characteristics of Waste Sources, Types, composition, quantity, sampling and characteristics of waste, factors affecting generation of solid wastes.	04
3.	Waste Collection, Storage and Transport Collection and storage of municipal solid waste; Methods of collection - House to House collection - Type of vehicles-Manpower requirement-collection routes; on site storage methods-materials used for containers-Reduction of solid waste at source-on site segregation of solid waste-Recycling and Reuse Need for transfer and transport; transfer station-selection of location, operation and maintenance; transportation Methods-manual, Mechanical methods with or without compaction, economy in transportation of waste optimization of transportation routes.	10



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46

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4.	Waste Processing Techniques Processing techniques-biological and chemical conversion technologies – composting and its methods, vermicomposting, mechanical composting. In vessel composting, incineration, pyrolysis, gasification.	07
5.	Disposal of Solid Waste Segregation, reduction at source, recovery and recycle; dumping of solid waste-sanitary waste- sanitary landfills-site selection-design and operation of sanitary landfill-secure landfills-landfill bioreactors-leachate and landfill gas management-landfill closure and environmental monitoring-landfill remediation; Municipal solid waste in Indian conditions, legal aspects of solid waste disposal.	12
6.	Industrial Solid Waste Waste products during manufacturing and packing, operation of pollution control facilities, generation, minimization at source, recycling, disposal.	04
7.	Hazardous Waste Definition, sources, hazardous characteristics, management, Treatment and disposal, mutagenesis, carcinogenesis, Toxicity testing.	04
8.	Biomedical Waste Definition, sources, classification, collection, segregation, treatment and disposal.	04
9.	Electronic Waste Waste characteristics, generation, collection, transport and disposal.	02

Contribution to outcomes

On completion of this course, the students shall be able to understand the various methods of disposal of solid waste. They shall have the better understanding of the nature and characteristics of solid waste and regulatory requirements regarding solid waste management and further they shall have an ability to plan waste minimization. Besides, they shall be prepared to contribute practical solutions to environmental problems in our society.



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 47
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Theory examination:

1. Question paper will comprise of **six** questions; each carrying 20 marks.
2. The **first** question will be **compulsory** which will have the short questions having weightage of 4-5 marks covering the entire syllabus.
3. The **remaining five** questions will be based on all the modules of entire syllabus. For this, the module shall be divided proportionately further, and the weightage of the marks shall be judiciously awarded in proportion to the importance of the sub-module and contents thereof.
4. The students will have to attempt any **three** questions out of remaining five questions.
5. Total **four** questions need to be attempted.

Oral Examination:

The oral examination will be based on the entire syllabus and the term work.

Site Visit:

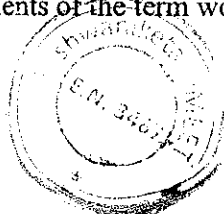
Each student shall visit any site involving industrial/hazardous/municipal solid waste comprising source, characterization, transportation, recycles, treatment and disposal. The detailed report prepared on such visit will also form a part of the term work.

Term Work:

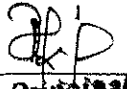
The term-work shall comprise of the neatly written report of the assignments. The assignments shall be given covering the entire syllabus in such a way that the students would attempt at least two problems and/ or questions on each modules/ sub-modules and contents thereof further. A detailed report prepared on the site visit as mentioned in the aforementioned section will also be submitted along with the assignments.

Distribution of Term Work Marks:

The marks of the term work shall be judiciously awarded for the various components depending upon the quality of the term work. The final certification and acceptance of term work warrants the satisfactory completion of the assignments and the report on the site visit; and the minimum passing marks to be obtained by the student. The following weightage of marks shall be given for different components of the term work.



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48

1. Tutorial and Assignments: 16Marks
2. Report on the site visit : 04 Marks
3. Attendance: 05 Marks

Further, while giving weightage of marks on the attendance, following guidelines shall be resorted to.

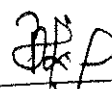
72%- 80%: 03 Marks; 81%- 90%: 04 Marks; 91% onwards: 05 Marks

Demonstration of available software for design of sewage treatment plant and sewer network is to be done.

Recommended Books:-

1. Integrated Solid Waste Management: *Techobanglous, Thisen, and Vigil*, McGraw Hill International.
2. Hazardous Waste Management: *Lagrega, Buckingham, and Evans*, McGraw Hill International.
3. Solid Waste Management in Developing Countries: *Bhide, A. D.*, Nagpur publications.
4. Environmental Pollution Control Engineering: *Rao, C. S.*, Wiley Eastern, Manual of solid waste of management, CPHEEO.
5. E-Waste: Implications, Regulations, and Management in India and Current Global Best Practices, *Rakesh Johri*, The Energy and Resources Institute.
6. Biomedical Waste Management in India: *Jugal Kishore and Ingle, G. K.*, Century Publications.



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Semester VII

Subject Code	Subject Name	Credits
CE-C704	Environmental Engineering - II	05

Teaching Scheme

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorials	Total
04	02	--	04	01	--	05

Evaluation Scheme

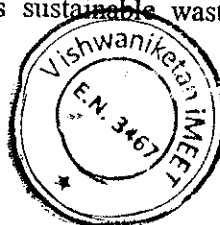
Theory					Term Work/ Practical/Oral			Total
Internal Assessment			End Sem Exam	Duration of End Sem Exam	TW	PR	OR	
Test 1	Test 2	Average						
20	20	20	80	03	25	--	25	150

Rationale

Every civil engineer must be acquainted with the principles of public health engineering, design of waste water collection and treatment systems; and develop rational approaches towards sustainable waste management via appropriate treatment and reuse. The course deals with the overall features and study of treatment of sewage processes. The course lays emphasis on complete update of the knowledge of these processes related to design of treatment plant.

Objectives

- To understand and explain the role of sanitation in the urban water cycle and its relation to public health and environment.
- To develop rational approaches towards sustainable wastewater management via pollution prevention.



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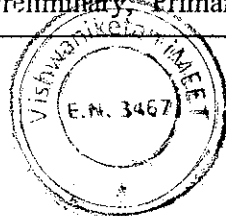
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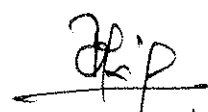
- To understand the relevant physical, chemical and biological processes and their mutual relationships within various sanitation components.
- To contribute to the development of innovative approaches to the provision of adequate and sustainable sanitation services in the country.
- To study the appropriate treatment, Reclamation and resource recovery and re-use at both centralized and decentralized levels.

Detailed Syllabus

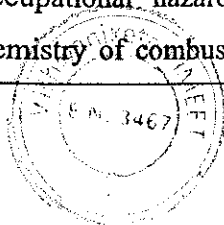
Module	Sub-Modules/ Contents	Periods
I.	Sewage Generation, Collection and Conveyance	12
	<p>Introduction : Need for sewerage system, Domestic sewage, Industrial waste and Storm Water- Quantification and design. Definitions: sewage, sullage, sewerage, Conservancy and water carriage system Systems of sewerage and their layouts : Separate, Combined and partially combined system, Merits and demerits ,Patterns of sewerage layout, Quantity of sewage, dry weather flow</p> <p>Conveyance of sewage: Sewer: Shapes and materials of sewers, open drains, Design of sewers: SEWER SIZE, Determination of velocity of flow using empirical formulae, limiting velocities. Laying and testing of sewers Sewer joints, Sewer appurtenances, Ventilation of sewers. Construction and Maintenance of sewers. Pumping of sewage: Types, selection of pumps, Pumping station</p>	
II.	<p>Primary Treatment of sewage: Need for Analysis, Characteristics of sewage: Composition, Biochemical characteristics, aerobic decomposition, anaerobic decomposition, Sampling of sewage, Analysis of sewage. Treatment processes: Objective, methods of treatment, flow sheets showing Preliminary, Primary, Secondary and Tertiary treatment.</p>	10



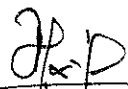
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	Screens, Grit chamber, Primary and secondary clarifier. Design of primary treatment units.	
III.	<p>Secondary treatment methods:</p> <p>Principles, Trickling filter, Activated sludge process, recirculation, hydraulic design of trickling filter and activated sludge process, Sludge volume index, Operational problems in trickling filter and activated sludge process, Aerated lagoons, Rotating Biological contractors, Stabilization Ponds, UASB . Design of secondary treatment units</p> <p>Sludge treatment and disposal:</p> <p>Sludge Digestion: Principles of anaerobic digestion, quantity and characterization of sludge, design of sludge digestion tanks, disposal of digested sludge, drying beds.</p> <p>Sewage disposal :</p> <p>Discharge of Raw and treated sewage on land and water, standards for disposal.</p> <p>Self-purification of natural water bodies:</p> <p>Oxygen economy, Numericals on BOD, Sewage farming. Disposal of treated effluent</p>	16
IV.	<p>Reclamation and Reuse of Waste water :</p> <p>Tertiary treatment for removal of residual organics, removal of nutrients, recycling and reuse of wastewater.</p>	04
V.	<p>House drainage and Environmental sanitation</p> <p>Plumbing : basic principles, Plumbing regulations, preliminary data for design, Preparation and submission of plans, Plumbing fixtures , materials used for plumbing system; systems of plumbing, antisiphonic and vent pipes.</p> <p>Low cost sanitation: Septic tanks, Imhoff tanks- Principles, Operation and suitability, Design.</p>	06
VI.	<p>Environmental Pollution: Air-Composition and properties of air, Quantification of air pollutants, Monitoring of air pollutants, Air pollution- Occupational hazards, Urban air pollution automobile pollution, Chemistry of combustion, Automobile engines, quality of</p>	04



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fuel, operating conditions and interrelationship. Air quality standards, Control measures for Air pollution, construction and limitations, Noise -Basic concept, measurement and various control methods. Thermal pollution.	
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Contribution to Outcomes

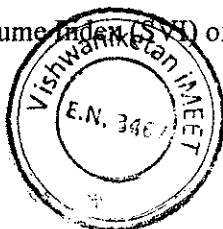
Having completed this course the students shall ensure the safe handling and treatment of wastewater and sewage. The students shall be able to conduct quality control tests on samples obtained from sewer water, soil, nearby rivers and groundwater. Further, the students shall be able to design the treatment facilities and assess the guidelines for disposing of waste. Lastly, they shall be able to formulate approaches to treat waste water in most effective manner.

Theory examination:

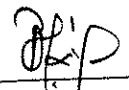
1. Question paper will comprise of six questions; each carrying 20 marks.
2. The **first** question will be **compulsory** which will have the short questions having weightage of 4-5 marks covering the entire syllabus.
3. The **remaining five** questions will be based on all the modules of entire syllabus. For this, the module shall be divided proportionately further, the weightage of the marks shall be judiciously awarded in proportion to the importance of the sub-module and contents thereof.
4. The students will have to attempt any **three** questions out of remaining five questions.
5. Total **four** questions need to be attempted.

List of Practical (At least eight to be performed)

1. Measurement of Noise level
2. Determination of chlorides
3. Determination of pH of sewage
4. Determination of Total Solids, suspended solids, dissolved solids, volatile solids
5. Determination of Dissolved oxygen
6. Determination of Bio chemical Oxygen Demand of sewage sample
7. Determination of Chemical Oxygen Demand of sewage sample
8. To find Sludge Volume Index (SVI) of sewage sample.



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9. Measurement of air quality standard by High volume sampler

10. Plumbing demonstration of accessories, fittings and fixtures.

Site Visit:

The students will visit the Sewage Treatment Plant in the nearby vicinity or in the city and prepare detailed report thereof. This report will form a part of the term work.

Oral Examination:-

Oral examination will be based on entire syllabus and the term work.

Term Work:

The term-work shall comprise of the neatly written report based on the experiments performed in the laboratory and the assignments. The assignments shall be given covering the entire syllabus in such a way that the students would attempt at least two problems and/or questions on each modules/ sub-modules and contents thereof, further. A detailed report on the visit to sewage treatment plant will also be submitted as a part of the term work.

Distribution of the Term Work Marks:

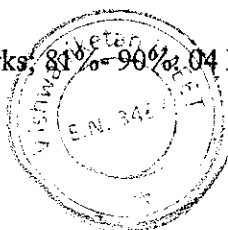
The marks of the term work shall be judiciously awarded for the various components depending upon its quality. The final certification and acceptance of term work warrants the satisfactory performance of the experiments by the student, properly compiled report thereof along with the assignments and the report on the site visit; and the minimum passing marks to be obtained by the student.

The following weightage of marks shall be given for different components of the term work.

1. Report of the Experiments: 08 Marks
2. Assignments: 08
3. Report on the visit to Sewage Treatment Plant : 04 Marks
4. Attendance: 05 Marks

Further, while giving weightage of marks on the attendance, following guidelines shall be resorted to.

75%- 80%: 03 Marks; 81%- 90%: 04 Marks; 91% onwards: 05 Marks



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 30
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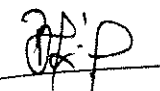
Demonstration of available software for design of sewage treatment plant and sewer network is to be done.

Recommended Books:

1. Environmental Engineering (Vol. II): *Garg, S. K.*, Khanna Publishers, New Delhi.
2. Water supply and Sanitary Engineering: *Hussain, S. K.* Oxford and IBH Publication, New Delhi.
3. Plumbing Engineering, Theory and Practice: *Patil, S. M.*, Seema Publications, Mumbai.
4. Environmental Engineering: *Punmia, B. C.*, Laxmi Publications, New Delhi
5. Air pollution: *Rao, M. N.*, Tata Mc-Graw Hill Publishers, New Delhi
6. Environmental Engineering: *Peavy, H. S., Rowe D. R. and Tchobanoglous G.*; Tata-Mcgraw Hill, 1991.
7. Wastewater Engineering Treatment, Disposal, Refuse: *Metcalf and Eddy*, Tata McGraw Hill Publishers, New Delhi, 1995.
8. Water Supply and Sewerage: *Steel, E.W.*
9. Introduction to Environmental Engineering: *P. Aarne Vesilind*, PWS Publishing Company, 2000
10. Introduction to Environmental Engineering : *P. Aarne Vesilind, Susan M. Morgan, Thompson /Brooks/Cole*; Second Edition 2008
11. Manual on Wastewater Treatment: CPH and Env. Engg. Organization (3rd Ed.), Ministry of Urban Development, Govt. of India, New Delhi, 1991.
12. CPHEEO Manual on Sewage and Treatment
13. Relevant Indian Standard Specifications



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Semester VIII

Subject Code	Subject Name	Credits
CE-C801	Design and Drawing of Reinforced Concrete Structures	05

Teaching Scheme

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorials	Total
04	02	--	04	01	--	05

Evaluation Scheme

Theory					Term Work/ Practical/Oral			Total
Internal Assessment			End Sem Exam	Duration of End Sem Exam	TW	PR	OR	
Test 1	Test 2	Average						
20	20	20	80	04	25	--	25	150

Rationale

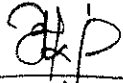
Different civil engineering structures such as residential and industrial buildings resting on different types of foundation depending upon the sub-soil conditions and constraints at the site if any. The water tanks and retaining walls are to be planned and designed by the civil engineers. This subject helps the students to enable them to design these systems by resorting to the available concept of the RCC.

Objectives

1. To understand the complete analysis and design of residential and industrial buildings using relevant IS codes.
2. To understand the complete analysis and design of different types of retaining walls.



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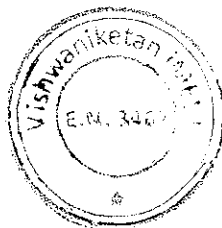

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3. To understand the complete analysis and design of different types of water tanks using relevant IS codes by working stress method.
4. To develop the students well versed with concepts of civil engineering techniques and ability to use it in practice.

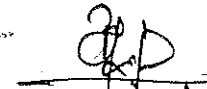
Detailed Syllabus

Module	Sub- Modules/ Contents	Periods
I.	Design of Foundations: Design of simple raft subjected to symmetrical loading using limit state method.	09
II.	Design of Staircases: Design of dog legged and open well type staircase using limit state method.	08
III.	Comprehensive Design of the Building: Complete design of residential, commercial or Industrial building including staircase and foundations using limit state method; Introduction to ductile design and detailing of structures.	12
IV.	Design of Retaining Walls: Design of cantilever and counter fort type retaining wall using limit state method.	09
V.	Design of Water Tanks: Circular and rectangular, at ground level, underground and overhead water tank both by IS coefficient and - approximate methods, including supporting structure for overhead water tanks using working stress method.	14

Note: Relevant and latest IS codes of practice shall be followed for all the topics.



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Contribution to Outcomes

On successful completion of the course:

1. The student shall be able to independently or as a member of the team design the structures using structural analysis and design knowledge for safety, serviceability and economy.
2. The student shall be able to design different types of water tank, retaining wall by limit state method.
3. The student shall be able to design a residential and industrial buildings by relevant IS code.

Theory Examination:-

1. Question paper will comprise of six questions; each carrying 20 marks.
2. The **first** question will be **compulsory** which will have the short questions having weightage of 4-5 marks covering the entire syllabus.
3. The remaining **five** questions will be based on all the modules of entire syllabus. For this, the module shall be divided proportionately further, and the weightage of the marks shall be judiciously awarded in proportion to the importance of the sub-module and contents thereof.
4. There can be an **internal** choice in various sub-questions/ questions in order to accommodate the questions on all the topics/ sub-topics.
5. The students will have to attempt any **three** questions out of remaining five questions.
6. Total **four** questions need to be attempted.

Oral Examination:

The oral examination accompanied by sketching will be based on entire syllabus and the term work.


Term Work:

The term work shall consist of a neatly written Design Report including detailed drawings on the following topics:

1. Design report of (G+3) industrial or residential building using relevant IS codes.
2. Design report of counter fort retaining wall



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3. Design report of rectangular or circular underground water tank or overhead water tank using relevant IS codes by working stress method.

Design report and at least four A-1 (Full imperial) size drawings sheets for above three projects shall be submitted as term work. All drawing work is to be done in pencil only. Design of building project will be done using design aids and anyone of available softwaressuch as STAAD-Pro and ETABS, etc.

Distribution of Term Work Marks:

The marks of term-work shall be judiciously awarded depending upon its quality. The final certification and acceptance of the term-work warrants the satisfactory and the appropriate completion of the assignments, properly compiled design report; and the minimum passing marks to be obtained by the students.

The following weightage of marks shall be given for different components of the term work.

1. Design report: 20 Marks
2. Attendance: 05 Marks

Further, while giving weightage of marks on the attendance, following guidelines shall be resorted to.

75%- 80%: 03 Marks; 81%- 90%: 04 Marks; 91% onwards: 05 Marks

Recommended Books:-

1. Limit State Theory for Reinforced Concrete Design: *Huges B. P.*, Pitman
2. Limit State Design - Reinforced Concrete: *Jain A. K.*, New Chand, India
3. Reinforced Concrete: *Warener R. F.*, *Rangan B.C.* and *Hall A. S.*
4. Illustrated Design of G+3 Building: *Shah and Karve*, Structures Publishers.
5. Reinforced Concrete: *S. N. Sinha*, TMH, New Delhi
6. Reinforced Concrete: *H. J. Shah*, Charotar Publisher
7. Relevant I.S. codes and Design Aids, BIS Publications.
8. Reinforced Concrete Fundamentals: *Ferguson P.M.*, *Breen J.E.*, and *Jirsa J.O.*, 5th Edition, John Wiley and Sons, 1988.
9. Illustrated Reinforced Concrete Design: *Dr. V.L. Shah* and *Dr. S.R. Karve*, Structures Publishers.

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119



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10. Earthquake Resistant Design of Structures- *S.K.Duggal*, Oxford University Press, New Delhi

11. Earthquake Resistant Design of Structures –*PankajAgrawaland Manish Shrikhande*, PHI Learning Pvt. Ltd.



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Semester III

Subject Code	Subject Name	Credits
CE-C 304	Building Materials and Construction	4

Teaching Scheme

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorials	Total
03	02	-	03	01	-	04

Evaluation Scheme

Theory					Term Work/ Practical/Oral			Total
Internal Assessment			End Sem	Duration of End	TW	PR	OR	
Test 1	Test 2	Average	Exam	Sem Exam				
20	20	20	80	03 Hrs.	25	-	25	150

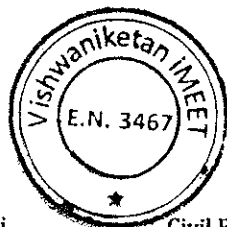
Rationale

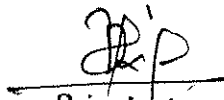
Materials are essential elements, constituent parts (or) substances which are used to raise a building, but materials could not be turned into structures without a method of construction. This subject provides necessary knowledge about properties and uses of different types of building materials. This subject is intended for gaining useful knowledge with respect to facts, concepts, principles and procedures related to building construction system so that student can effectively plan and execute building construction work.

Objectives

- To study the manufacturing process, properties, and use of different types of building materials like cement, lime, mortar, concrete, stone, brick, timber, including materials such as paints and varnishes used for treatment of the surfaces so as to achieve good knowledge about the building materials.
- To enable the students to identify various components of building (foundation, masonry, roof and floor, staircase etc.), their functions and methods of construction so as to achieve good knowledge about building construction.

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Detailed Syllabus		
Module	Sub-Modules/ Contents	Periods
I.	Foundations Different types of structures such as load bearing structures, framed structures and composite structures, Introduction to different types of foundations: Stepped foundations, column footing, combined footing, under-reamed pile foundations.	7
	Construction Materials: Classification and Properties	
	1.1 Classification of materials, building materials symbols and requirements of building materials and products: functional, aesthetical and economical.	
	1.2 Study of properties of materials-physical, mechanical, chemical, biological and other like durability, reliability, compatibility and economic characteristics.	
II.	Raw Materials, Manufacturing Process and Properties of Basic Construction Materials.	6
	2.1 Rocks (Stone) - quarrying, milling and surface finishing, preservative treatments.	
	2.2 Structural clay products- bricks, roofing tiles, ceramic tiles, raw materials and manufacturing process.	
	2.3 Concrete blocks, flooring tiles, paver blocks-raw materials and manufacturing process.	
	2.4 Binder material: lime, cement: physical properties and manufacturing process, plaster of Paris- properties and uses.	
	2.5 Mortar - ingredients, preparation and uses.	
III.	Masonry Construction and Masonry Finishes	6
	3.1 Classification and bonding of stone, brick and concrete blocks	
	3.2 Masonry finishes-pointing, plastering and painting	
	3.3 Paints and Varnishes Types, constituents and uses.	
IV.	4.1 Formwork Materials used, design considerations, shuttering, centering and staging, scaffolding.	6
	4.2 Floor and Roofs Type of floors, floor finishes and suitability.	
	Type of roofs, wooden and steel trusses and roof coverings.	

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V.	5.1	Glass	7
		Types and uses. Introduction to glass fibre reinforced plastic.	
	5.2	Timber	
	Varieties, defects in timber, preservative treatments and wood composites.		
5.3	Metal and Alloys		
	Ferrous and non ferrous metals and alloys, aluminum, tin, zinc, nickel - types and uses and anti-corrosive treatment.		
VI.	Building Services, Air conditioning and Ventilation, Acoustics and Sound Insulation, Damp-proofing and Water proofing.		7
	6.1	Air conditioning: systems of heating, air conditioning, ventilation, construction requirements.	
	6.2	Acoustics and sound insulation: Characteristics of sound, reflection and absorption coefficient, acoustical defects, design and material.	
	6.3	Damp-proofing and water proofing: materials and methods	

Contribution to Outcomes

On completion of the course, the students will be:

- Able to identify the various building materials with symbols.
- Able to identify the properties of building materials.
- Made acquainted with the manufacturing process of basic construction materials.
- Made acquainted with the masonry construction and finishes
- Aware of building services, acoustics, DPC, etc.

Theory examination:

1. The question paper will comprise of six questions; each carrying 20 marks.
2. The **first** question will be **compulsory** and will have short questions having weightage of 4-5 marks covering the entire syllabus.
3. The remaining five questions will be based on all the modules of the entire syllabus. For this, the modules shall be divided proportionately and further, the weightage of the marks shall be judiciously awarded in proportion to the importance of the sub-module and contents thereof.
4. The students will have to attempt **any three** questions out of remaining five questions.
5. Total **four** questions need to be solved.

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Oral Examination:

The oral examination shall be based on the entire syllabus and term work comprising of the report of the experiments/ practicals conducted by the students and a detail report of the industrial/ site visit.

List of Experiments/ Practicals: (Minimum seven to be performed)

1. Water absorption and compressive strength test of bricks.
2. Water absorption and transverse load test on tiles.
3. Moisture content and flexural strength test on timber.
4. Compression test on timber (Parallel/ perpendicular to the grains).
5. Physical properties of cement: Fineness, consistency, setting time, Soundness, Compressive strength.
6. Compression test on Paver blocks.
7. Water absorption, density and compression test on masonry blocks.
8. Abrasion test on tiles.

Site Visit/ Industrial Visit:

The students shall visit the brick, paver blocks, concrete block, cement, glass and plastic manufacturing industrial plants. They shall study various aspects of the plant along with various operations. The visit to any site where construction is going on may be arranged and the students may be made aware of the various construction activities. They shall prepare a report of the visit which shall include all above points. The same shall be evaluated by the concerned teacher.

Term Work:

The term work shall consist of:

- Report of minimum 07 experiments.
- Assignments, including at least 20 sketches on A2 size drawing sheets covering entire syllabus.
- Industrial visit report to at least any one of the above mentioned industrial plants.

Although minimum numbers of experiments and industrial visits are prescribed, the students shall be encouraged to perform more number of experiments and site/ industrial visits.

Distribution of the Term Work Marks:

The marks of the term work shall be judiciously awarded for the various components of the term work and depending upon the quality of the term work including industrial/ site visit report. The final certification and acceptance of term work warrants the satisfactory performance of laboratory work by the student, appropriate completion of the assignments.



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Recommended Books:

1. Building Construction: *S. P. Bindra and S. P. Arora*, Dhanpat Rai and Sons, Delhi.
2. Building Drawing: *M. G. Shah, C. M. Kale and S. Y. Palki*, Tata Mc-Graw Hill, Delhi.
3. Services in Building Complex: *V. K. Jain*, Khanna Publishers.
4. Materials of Construction: *D. N. Ghose*, Tata McGraw Hill, Delhi.
5. Architectural Materials science: *D. Anapetor*, Mir Publiishers.
6. Introduction to Engineering Materials: *B. K. Agrawal*, Tata McGraw Hill New Delhi.
7. Engineering Materials: *S.R. Rangwala*, Charotar Publications.
8. Engincering Materials: *P. Surendra Singh*, Vani Education Books New Delhi.
9. Building Construction: *Rangwala*, Charotar Publications, Anand (Gujrat).
10. Building Materials (Products, Properties and Systems): *M.L. Gambhir and Neha Jamwal*, Mc-Graw Hill Publications.
11. Specifications for different materials, BIS Publications, New Delhi



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Semester III

Subject Code	Subject Name	Credits
CE- C 302	Surveying -I	4

Teaching Scheme

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorials	Total
03	02	-	03	01	-	04

Evaluation Scheme

Theory					Term Work/ Practical/Oral			Total
Internal Assessment			End Sem	Duration of End	TW	PR	OR	
Test 1	Test 2	Average	Exam	Sem Exam				
20	20	20	80	03 Hrs.	25	-	25	150

Rationale

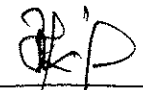
Surveying is a core subject for civil engineers. It is the first step towards all civil engineering projects. A good surveyor is an asset to the company, organization or establishment. All the civil engineering projects such as buildings, transportation systems including roads, bridges, railways, airports along with dams and water/ sewage treatment plants start with surveying as the basic operations. Hence, the knowledge of surveying is very essential to all the civil engineering professionals. In this subject, the students get acquainted with the basic methods and equipments that are used in surveying and it helps them to produce plans and sections. It is also useful in setting out civil engineering structures on construction sites.

Objectives

Students will be able to:

- Apply principles of surveying and levelling for civil engineering works
- Use the appropriate methods of surveying.
- Perform various projects using different instruments skillfully.
- Take linear and angular measurements.
- Record the data in field book.
- Draw the plans and sections.
- Compute areas and volumes.

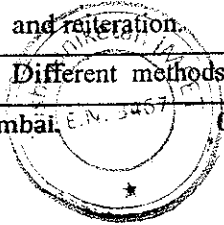
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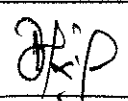


Detailed Syllabus

Module	Sub-Modules/ Contents	Periods
1.	Introduction	05
	1.1 Definition, principles, object, uses and necessity of surveying. Various types of surveying based on methods and instruments, classifications-Plane surveying and geodetic surveying, Scales, Plain and diagonal scale, use of various types of verniers and micrometers in survey instruments.	
	1.2 Chain surveying, study of ranging, Instruments required for linear measurements and setting out right angles.	
2.	Levelling	10
	2.1 Definitions, technical terms, principle of levelling, different types of levels such as dumpy, tilting, wye level, auto level and laser level, temporary and permanent adjustments of level	
	2.2 Levelling staff – Different types, classification of levelling, reduction of levels. Precise level and levelling staff, and field procedure for precise levelling. Difficulties in levelling work, corrections and precautions in levelling work, problems, corrections due to curvature and refraction.	
3.	Contouring	03
	3.1 Contouring: definitions, contour interval, equivalent, uses and characteristics of contour lines, direct and indirect methods of contouring. Grade contour: definition and use.	
	3.2 Computation of volume by trapezoidal and prismoidal formula, volume from spot levels, volume from contour plans.	
4.	Traversing	13
	4.1 Compass survey: Bearings: Definition, different types and designations, compass- prismatic and surveyor's, declination, local attraction, plotting of compass survey by different methods.	
	4.2 Theodolite traverse: Various parts and axis of transit, technical terms, temporary and permanent adjustments of a transit, horizontal and vertical angles, methods of repetition and reiteration.	
	4.3 Different methods of running a theodolite traverse, scales traverse table,	



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		balancing of traverse by Bow-Ditch's, transit and modified transit rules	
	4.4	Problems on one plane and two plane methods, omitted measurements, Precautions in using transit, errors in theodolite traversing; Use of theodolite for various works such as prolongation of a straight line, setting out an angle, bearing measurements.	
5.	Areas		04
	5.1	Area of a irregular figure by trapezoidal rule, average ordinate rule, Simpson's 1/3 rule, various coordinate methods.	
	5.2	Planimeter: types including digital planimeter, area of zero circle, use of planimeter.	
6.	Plane Table Surveying		04
	6.1	Definition, uses and advantages , temporary adjustments	
	6.2	Different methods of plane table surveying	
	6.3	Errors in plane table surveying	
	6.4	Use of telescopic alidade	

Contribution to Outcomes

On completion of the course, the students will be able to:

- Take linear and angular measurements
- Record the various measurements in the field book
- Find the areas of irregular figures.
- Prepare the plans and sections required for civil engineering projects.

The successful completion of the course shall equip the students to undertake the course Surveying-II.

Theory examination:

1. The question paper will comprise of six questions; each carrying 20 marks.
2. The **first** question will be **compulsory** and will have short questions having weightage of 4-5 marks covering the entire syllabus.
3. The remaining five questions will be based on all the modules of the entire syllabus. For this, the modules shall be divided proportionately and further, the weightage of the marks shall be judiciously awarded in proportion to the importance of the sub-module and contents thereof.
4. The students will have to attempt any three questions out of remaining five questions.
5. Total **four** questions need to be solved.

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Oral Examination:

The oral examination shall be based on the entire syllabus and the term work.

List of Practicals:

1. Chaining Ranging and offsetting.
2. Measuring Bearing of survey lines using Prismatic compass.
3. Measuring bearing of survey lines using Surveyor's compass.
4. Measurement of horizontal angle by Repetition Method.
5. Measurement of horizontal angle by Reiteration Method.
6. Measurement of vertical Angle using theodolite.
7. Determination of R.L of points using Auto level and Dumpy level.
8. Determination of areas of irregular figures by planimeter.
9. Plane table surveying by various methods.

Term work: It shall consist of the following:

1. Field book submission on afore-mentioned practicals conducted on and off the field.
2. Drawing sheets of a three day projects on compass / theodolite traversing and plane table surveying.
3. The assignments shall comprise of the minimum 20 problems covering the entire syllabus divided properly module wise.

Distribution of the Term Work Marks:

The marks of the term work shall be judiciously awarded for the various components of the term work and depending upon the quality of the term work. The final certification and acceptance of term work warrants the satisfactory performance of laboratory and field work by the student, appropriate completion of the assignments.

Recommended Books:

1. Surveying and Levelling: Vol-I and II: *Kanetkar and Kulkarni*, Pune Vidyarthi Griha, Pune.
2. Surveying and Levelling: *NN Basak*, Tata McGraw Hill, New Delhi.
3. Surveying: *R. Agor*, Khanna Publishers.
4. Surveying: Vol-I: *Dr K.R. Arora*, Standard Book House.
5. Surveying and Levelling (2nd Edition): *R. Subramanian*; Oxford Higher Education.
6. Surveying and levelling (Vol.-I): *Dr. B.C. Punmia*, Laxmi Publications.
7. Surveying and Levelling (Vol.-I): *S. K. Duggal*, Tata Mc-Graw Hill

Semester V

Course Code	Subject Name	Credits
CE503	Building Design & Drawing – II	3

Teaching Scheme

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorial	Total
1	4#	--	1	2	--	3

Evaluation Scheme

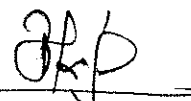
Theory				Term Work/Practical/Oral			Total	
Internal Assessment			End Sem. Exam	Duration of End Sem. Exam	Term Work	Practical		Oral
Test-I	Test-II	Average						
20	20	20	80	04 Hrs.	25	--	25#	150

Rationale

The complete knowledge of Planning, Designing & drawing of Public Buildings, which includes Offices like Bank, Post-Office, Commercial Complexes, Hostels, Hotel, Rest Houses; buildings for education like Schools, Colleges including Library; buildings for health like Primary Health Center to Hospitals etc. is essential for Civil Engineering students. The structures include Load Bearing Framed type with respect to Plan, Elevation, Section, Foundation Plan, Roof Plan, Site plan for the same. The subject also involves drawings of One-Point & Two-Point Perspectives for public buildings which will represent the real impression of building when we see them from a long distance, may be seeing by sitting on ground level from top like bird's eye-view. This subject imparts the theoretical knowledge to students like concept of Green buildings, Town Planning concepts with reference to development of a Town or large urban area, slum clearance redevelopment of old dilapidated buildings in a broader way. This subject also outlines the drawings of different Plans, Elevations sections at various levels using latest software techniques like Auto CAD, with reference

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to drafting of various types of public buildings. Over all, by the end of semester, the civil engineering students will have the complete knowledge with reference to Planning, Designing, drawing concepts of all types of public buildings.

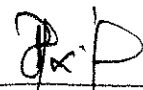
Objectives

1. To understand the Planning concepts, rules, regulations, various bye-laws of local administration/authorities with reference to all types of public buildings.
2. To understand the application of bye-laws in Planning, Designing Drawing of all types of public buildings.
3. To understand all the concepts involved in drawing the different Perspective drawings for public buildings, workshops.
4. To prepare various types of drawings for the public building structures planned designed, satisfying the functional market requirements.
5. To study & apply the provisions made in the relevant Indian Specifications pertaining to the practice for public buildings, the society needs for over all development.

Detail Syllabus

Module	Sub-Module/Contents	Periods
1.	Planning & Design of Public Buildings such as: i) Buildings for education: Schools, Colleges, Institutions, Libraries ii) Buildings for health: Hospitals, Primary Health Centers iii) Industrial Buildings, Workshops, Warehouses iv) Buildings for entertainment: Theaters, Cinema Halls, Club houses, sports club v) Offices: Banks, Post Offices, Commercial Complex vi) Hostels, Hotels, Boarding houses, Rest houses vii) Bus Depots	10
2.	Perspective Drawing : One Point Perspective & Two Point Perspective	04
3.	Town Planning: Objectives Principles, Master Plan, Road Systems, Zoning, Green Belt, Slums	02
4.	Redevelopment of Buildings, Introduction to Residential Township	02




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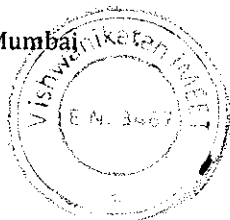
5.	Architectural Planning, massing composition, concept of built environment its application in planning	02
6.	Principles of modular planning, planning as recommended by National Building Organization	01
7.	Use of Computers in Building Planning & Designing	03
8.	Introduction to Green Buildings, understanding certification methods (TERI,LEEDS)	02

Contribution to Outcomes

On successful completion of the course work, the students shall be able to understand the principles of planning, designing of public buildings. They will demonstrate the ability to plan the public buildings according to the requirements, design the various components involved therein by keeping all the principles of planning following the extant bye-laws of the local authorities. The students will also understand the different control rules of the local authorities, besides provisions made in the relevant Indian specifications meant for practice for architectural drawings. They will further demonstrate the ability of preparing different types of drawings showing complete details therein with respect to public buildings as a whole.

Theory Examination:

1. The question paper will comprise of **six** questions, each carrying 20 marks.
2. Question No.1 will be **compulsory**, based on the planning of any one public building mentioned in the syllabus.
3. The remaining **five** questions will be based on all the modules sub-modules, consisting of Plan, Elevation, Section, Foundation Plan theoretical concepts mentioned in the entire syllabus.
4. These five questions shall be based on Plan, Elevation, Section, Elevation, Foundation Plan; Roof/Terrance Plan on the public buildings (may be on framed or load bearing structure). Some questions could be asked on the theoretical portion mentioned in the module/sub-modules also.
5. The students will have to attempt **any three** questions from the **remaining five** questions.
6. **Total four** questions need to be attempted.



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Oral Examination:

There shall be an Oral Examination in conjunction with the Sketching examination. The Oral examination shall be based on the entire syllabus term work.

Contents of the Practicals /Site Visit:

1. Planning drawings of different public buildings.
2. Writing of the Report related to the buildings that are planned & drawn by the students.
3. One-day site visit could be arranged for students to visit any one public building near the college like commercial complex, library, Bank etc. They need to study in detail of that building take the measurements of that building should submit as a site report with detailed drawing according to some suitable scale. This will become a part of Term Work.

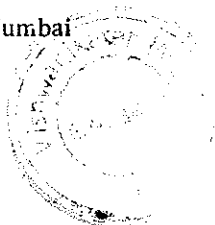
Term Work:

The Term Work shall consist of all the following:

1. A-1 size drawing sheets drawn for one public building as Framed Structure as (G+1) with Ground Floor Plan, First Floor Plan, Front Elevation, Sectional Elevation, Foundation Plan, Roof/Terrace Plan, Site Plan, Schedule of Openings, Construction Notes Area Statement for the building.
2. A-1 size drawing sheets drawn for one public building as Load Bearing Structure for Single storied structure with Ground Floor Plan, Front Elevation, Sectional Elevation, Foundation Plan, Schedule of Openings and Construction Notes.
3. Perspective drawings for One-Point & Two-Point.
4. One public building one workshop can be considered for the perspective drawings.
5. Report on the problem taken for the drawing sheets with respect to public buildings.
6. Site visit report with drawings.

Distribution of Term Work Marks:

The marks of the Term Work shall be judiciously awarded for the various components depending upon the quality of the term work. The final certification acceptance of term work warrants the satisfactory performance of drawing work by the student, appropriate completion of the report on the



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said drawing sheets, minimum passing marks to be obtained by the student. The following weightage of marks shall be given for different components of the term work.

- Drawing Sheets : 10 Marks
- Report of the Drawing : 05 Marks
- Report on the Site Visit : 05 Marks
- Attendance : 05 Marks

Further, while giving weightage of marks on the attendance, following guidelines shall be resorted to.

- 75%- 80% : 03 Marks; 81%- 90%: 04 Marks 91% onwards: 05 Marks

Recommended Books:

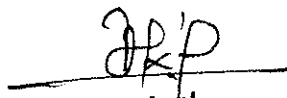
1. Building Drawing : *M.G.Shah, C.M.Kale and Patki*, Tata McGraw Hill Publishers, Delhi
2. Civil Engineering Drawing: *Chakraborty M*; Monojit Chakraborty Publication, Kolkata
3. Building Drawing Detailing : *B.T.S. Prabhu, K.V. Paul and C. Vijayan*; SPADES Publications, Calicut, Kerala
4. Planning Designing Buildings : *Y.S. Sane*; Modern Publication House, Pune
5. Civil Engineering Drawing: *Sushilkumar*, Stardard Publishers
6. IS: 962-Code of Practice for Architectural Drawings: BIS, New Delhi
7. Town Planning : *Rangwala*, Charotar Publishers

Reference Books:

1. Time Saver Standards for Building Types: Joseph De Chiara John Callender



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Serial NO - 656

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Vishwaniketan's Institute of Management Entrepreneurship & Engineering Technology [ViMEET]
Affiliated to University of Mumbai. Approved by AICTE, New Delhi

DTE CODE : EN3467

Survey No. 52, Kumbhivali, Near Khalapur Toll Naka, off Mumbai-Pune Expressway, Tal. Khalapur,
Dist. Raigad, Pin - 410 202. Telephone - 02192 - 274 206 / 07/08 / 10.

Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

VIMEET/EE/IT/2020-21/42

To,

Date: 07-10-2020

HR. Manager,
RCF
Thal, Alibag

Subject: Request to provide "Internship" to student.
Respected Sir,

Vishwaniketan is a public trust established by professionals drawn from the industry, education and administration with excellent experience in the respective fields. The campus has been located near Navi Mumbai, at Khalapur on Mumbai - Pune expressway. This has created platform for students, teachers, researchers and professionals to adopt excellent teaching - learning practices based on Project Based Learning (PBL). This will encourage entrepreneurship and finally support product-development through start-ups and empower teachers and the society by using technology-solutions.

The Institute has branches in Civil, Mechanical, Electrical, E&TC and Computer Engineering. We have also started have college of architecture on our campus from 2016-17. You may like to know more about PBL methodology (through value addition programs) and activity plan from our website. This method develops technical and life skills in our students. As our institute is dedicated to PBL, we always endeavor to give practical exposure to our students so that they have a feel of actual engineering work.

We are looking for an opportunity to place a student in your esteemed Industry/organization (for about One Months), of course subject to your convenience, for the INTERNSHIP. We propose following student for the training in your Industry / Company:

Sr No	Name Of the Student	Class
1	Siddhesh Patil	BE-(EE) Roll no.55
2	Asmit Patil	BE-(EE) Roll no.46
3	Pankaj Tandel	BE-(EE) Roll no.66

We assure you that, our student will maintain professional code of conduct and abide by the rules and regulations of your organization during the project work. Kindly accord permission and issue an acceptance letter as early as possible.

Prof. Nikhil N Kasar, will be our liaison person and his contact no. is 8390076409.

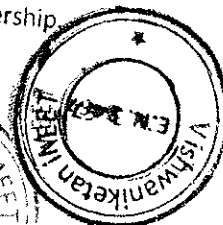
Thanks and hope for long-lasting industry -institute partnership.

Prof. N. N. Kasar

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Vishwaniketan's (I MEET)



Yours Sincerely

(Dr. B.R. Patil)
Principal

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Vishwaniketan's (I MEET)

University of Mumbai						
Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Practical	Theory	Practical	Total
EEL703/EEL803	Project-I/II	-	6/12	-	3/6	3/6

Course Code	Course Name	Examination Scheme							Total
		Theory			Practical				
		Internal Assessment			End Sem. Exam	Term Work	Pract. and Oral	Oral	
		Test 1	Test 2	Avg.					
EEL703/EEL803	Project-I/II	-	-	-	-	25/50	-	25/50	50/100

Course Objectives	<ul style="list-style-type: none"> To acquaint with the process of undertaking literature survey/industrial visit and identifying the problem To familiarize the process of problem solving in a group To acquaint with the process of applying basic engineering fundamental in the domain of practical applications To inculcate the process of research
Course Outcomes	<p>Student will be able to...</p> <ul style="list-style-type: none"> Do literature survey/industrial visit and identify the problem Apply basic engineering fundamental in the domain of practical applications Cultivate the habit of working in a team Attempt a problem solution in a right approach Correlate the theoretical and experimental/simulations results and draw the proper inferences Prepare report as per the standard guidelines.

Guidelines for Project

Students should do literature survey/visit industry/analyse current trends and identify the problem for Project and finalize in consultation with Guide/Supervisor.

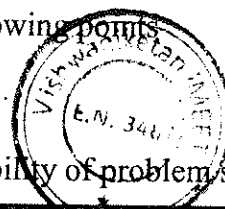
Students should use multiple literatures and understand the problem.

Students should attempt solution to the problem by experimental/simulation methods. The solution to be validated with proper justification and report to be compiled in standard format.

Guidelines for Assessment of Project I

Project I should be assessed based on following points

1. Quality of problem selected
2. Clarity of Problem definition and Feasibility of problem solution



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3. Relevance to the specialization
4. Clarity of objective and scope
5. Breadth and depth of literature survey

Project Report has to be prepared strictly as per University of Mumbai report writing guidelines. Project I should be assessed through a presentation by the student project group to a panel of Internal and External Examiner approved by the University of Mumbai

Guidelines for Assessment of Project II

Project II should be assessed based on following points

1. Quality of problem selected
2. Clarity of Problem definition and Feasibility of problem solution
3. Relevance to the specialization / Industrial trends
4. Clarity of objective and scope
5. Quality of work attempted
6. Validation of results
7. Quality of Written and Oral Presentation

Project Report has to be prepared strictly as per University of Mumbai report writing guidelines. Project II should be assessed through a presentation by the student project group to a panel of Internal and External Examiner approved by the University of Mumbai Students should be motivated to publish a paper in Conferences/students competitions based on the work.

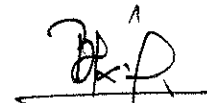
Faculty Load

In semester VII - 1 (one) period of 1/2 hour per week per project group

In semester VIII - 2 (Two) period of 1 hour each per week per project group



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University of Mumbai						
Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Practical	Theory	Practical	Total
EEL703/EEL803	Project-I/II	-	6/12	-	3/6	3/6

Course Code	Course Name	Examination Scheme							Total
		Theory				Practical			
		Internal Assessment			End Sem. Exam	Term Work	Pract. and Oral	Oral	
		Test 1	Test 2	Avg.					
EEL703/EEL803	Project-I/II	-	-	-	-	25/50	-	25/50	50/100

Course Objectives	<ul style="list-style-type: none"> To acquaint with the process of undertaking literature survey/industrial visit and identifying the problem To familiarize the process of problem solving in a group To acquaint with the process of applying basic engineering fundamental in the domain of practical applications To inculcate the process of research
Course Outcomes	<p>Student will be able to...</p> <ul style="list-style-type: none"> Do literature survey/industrial visit and identify the problem Apply basic engineering fundamental in the domain of practical applications Cultivate the habit of working in a team Attempt a problem solution in a right approach Correlate the theoretical and experimental/simulations results and draw the proper inferences Prepare report as per the standard guidelines.

Guidelines for Project

Students should do literature survey/visit industry/analyse current trends and identify the problem for Project and finalize in consultation with Guide/Supervisor.

Students should use multiple literatures and understand the problem.

Students should attempt solution to the problem by experimental/simulation methods. The solution to be validated with proper justification and report to be compiled in standard format.

Guidelines for Assessment of Project I

Project I should be assessed based on following points

1. Quality of problem selected
2. Clarity of Problem definition and Feasibility of problem solution



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3. Relevance to the specialization
4. Clarity of objective and scope
5. Breadth and depth of literature survey

Project Report has to be prepared strictly as per University of Mumbai report writing guidelines. Project I should be assessed through a presentation by the student project group to a panel of Internal and External Examiner approved by the University of Mumbai

Guidelines for Assessment of Project II

Project II should be assessed based on following points

1. Quality of problem selected
2. Clarity of Problem definition and Feasibility of problem solution
3. Relevance to the specialization / Industrial trends
4. Clarity of objective and scope
5. Quality of work attempted
6. Validation of results
7. Quality of Written and Oral Presentation

Project Report has to be prepared strictly as per University of Mumbai report writing guidelines. Project II should be assessed through a presentation by the student project group to a panel of Internal and External Examiner approved by the University of Mumbai Students should be motivated to publish a paper in Conferences/students competitions based on the work.

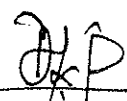
Faculty Load

In semester VII - 1 (one) period of 1/2 hour per week per project group

In semester VIII - 2 (Two) period of 1 hour each per week per project group



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University of Mumbai						
Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Practical	Theory	Practical	Total
EEL601	Electrical Protection Lab (abbreviated as EP Lab)	-	2	-	1	1

Course Code	Course Name	Examination Scheme							Total
		Theory				Practical			
		Internal Assessment			End Sem. Exam	Term Work	Pract. and Oral	Oral	
		Test 1	Test 2	Avg.					
EEL601	Electrical Protection Lab	-	-	-	-	25	-	25	50

Course Objectives	<ul style="list-style-type: none"> To introduce the concept of different protection schemes.
Course Outcomes	<p>Students will be able</p> <ul style="list-style-type: none"> To understand the concept of various over current protection scheme and its applications in power system. To understand the concept of various over/under voltage, over/under frequency and temperature protection scheme and its applications. To understand the working principle of various protective devices.

Syllabus: Same as that of Course EEC601 protection and switchgear Engineering.

Suggested List of Laboratory Experiment:

- Demonstration of Inverse time Over-current Relay & Plotting the characteristics
- Demonstration of Over-current protection Relay
- Demonstration of Directional Over-current Protection Relay
- Demonstration of Differential Over-current Protection Relay
- Demonstration of Under/Overvoltage Protection
- Demonstration of Motor winding temperature protection
- Demonstration of Gas actuated Relays
- Demonstration of working parts of different Fuses, MCB, MCCB, RCCB & Circuit Breakers.
- ~~Visit to a substation & a report preparation.~~

Any other experiment based on syllabus which will help students to understand topic/concept.

Term work:

Term work shall consist of minimum six experiments. The distribution of marks shall be as follows:

Experiments Performance	:10 marks
Journal	:10 marks
Attendance (Theory and Practical)	:05 marks



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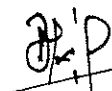
The final certification and acceptance of term work ensures the minimum passing in the term work.

Oral Examination:

Oral examination will be based on entire syllabus.



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University of Mumbai						
Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Practical	Theory	Practical	Total
EEL601	Electrical Protection Lab (abbreviated as EP Lab)	-	2	-	1	1

Course Code	Course Name	Examination Scheme							Total
		Theory				Practical			
		Internal Assessment			End Sem. Exam	Term Work	Pract. and Oral	Oral	
		Test 1	Test 2	Avg.					
EEL601	Electrical Protection Lab	-	-	-	-	25	-	25	50

Course Objectives	<ul style="list-style-type: none"> To introduce the concept of different protection schemes.
Course Outcomes	<p>Students will be able</p> <ul style="list-style-type: none"> To understand the concept of various over current protection scheme and its applications in power system. To understand the concept of various over/under voltage, over/under frequency and temperature protection scheme and its applications. To understand the working principle of various protective devices.

Syllabus: Same as that of Course EEC601 protection and switchgear Engineering.

Suggested List of Laboratory Experiment:

- Demonstration of Inverse time Over-current Relay & Plotting the characteristics
- Demonstration of Over-current protection Relay
- Demonstration of Directional Over-current Protection Relay
- Demonstration of Differential Over-current Protection Relay
- Demonstration of Under/Overvoltage Protection
- Demonstration of Motor winding temperature protection
- Demonstration of Gas actuated Relays
- Demonstration of working parts of different Fuses, MCB, MCCB, RCCB & Circuit Breakers.
- ~~Visit to a substation & a report preparation~~

Any other experiment based on syllabus which will help students to understand topic/concept.

Term work:

Term work shall consist of minimum six experiments. The distribution of marks shall be as follows:

Experiments Performance	:10 marks
Journal	:10 marks
Attendance (Theory and Practical)	:05 marks



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
The final certification and acceptance of term work ensures the minimum passing in the term work.

Oral Examination:

Oral examination will be based on entire syllabus.



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University Of Mumbai						
Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits assigned		
EEE701	High Voltage Engineering (Abbreviated as HVE)	Theory	Pract./Tut.	Theory	Pract.tut.	Total
		4	2	4	1	5

Course Code	Course Name	Examination Scheme							
		Theory					Term work	Pract./ Oral.	Total
		Internal Assessment			End Sem. Exam.	Exam. Duration (in Hrs)			
		Test 1	Test 2	Avg					
EEE701	High Voltage Engineering (Abbreviated as HVE)	20	20	20	80	03	25	-	125

Course Code	Course Name	Credits
EEE701	High Voltage Engineering	5
Course Objectives	<ul style="list-style-type: none"> To provide an understanding of high-voltage phenomena and to present the basic of high-voltage insulation design and testing To understand the modern numerical tools available in high-voltage equipment design. 	
Course outcomes	<ul style="list-style-type: none"> Able to know the fundamentals properties of the materials and their failure mechanisms to get appropriate and optimal design. Students will be aware of testing of different dielectric materials and the major requirements for setting up of HV Laboratories. 	

Module	Contents	Hours
1	Electrostatic Fields, their control and estimation: Electric field stress, its control and estimation, Analysis of electrical field intensity in Homogenous Isotropic Single dielectric and multi dielectric system, Numerical methods-Finite difference, Finite Element and Charge simulation methods for the estimation of Electric Field Intensity, Surge voltage, their distribution and control	06
2	Conduction and breakdown in air and other gaseous dielectrics in electric field Collision Processes, Ionization processes, Townsend's current growth equation-Primary and secondary processes, Townsend's criterion for	09

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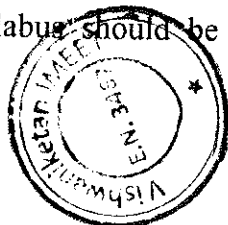
	breakdown in electronegative gases. Limitation of Townsend's theory, Paschen's law, Breakdown in non-uniform fields and corona discharges, Post-breakdown phenomenon and application, Practical considerations in using gas for insulation purposes.(Numerical on Townsend's theory, Paschen's law)	
3	Breakdown in liquid and solid dielectrics Liquid Dielectrics, Conduction and breakdown in pure liquids, Conduction and breakdown in commercial liquids. Solid dielectrics, Intrinsic, Electro-mechanical and Thermal breakdown, Breakdown of solid dielectrics in practice, Breakdown of composite insulation, Properties of composite dielectrics, Solid dielectrics used in practice, Application of insulating materials in electrical power apparatus, electronic equipments.	8
4	Generation & Measurement of High voltage and Currents: Generation of HV DC, HV AC and Impulse voltage, Generation of impulse currents, Tripping and control of impulse generators, Measurement of HVDC-High ohmic series resistance with micro-ammeter, HVAC and impulse voltage-Resistance and capacitance voltage dividers, Spark gap for measurement of High DC, AC and impulse voltages. Measurement of High DC, AC and impulse currents (Numerical based on impulse generation, high DC voltage generation, optimum number of stages).	11
5	Testing and evaluation of dielectric materials and power apparatus: Non-destructive testing of dielectric materials, DC resistivity measurement, Dielectric and loss factor measurement, Partial discharge measurement, Testing of insulators, bushing, isolators, circuit breakers, cable, transformers, high voltage motors , surge diverters, Radio interference measurement.	10
6	High Voltage laboratory–design, planning and layout: Size and dimensions of the equipment and their layout, Classification of HV laboratory, Earthing and its importance.	04

Assessment:

Internal assessment consists of two tests out of which one should be compulsory class test (on minimum 02 modules) and the other is either a class test or assignment on live problems or course project.

End Semester Examination: Some guidelines for setting the question papers are as, six questions to be set each of 20 marks, out of these any four questions to be attempted by students. Minimum 80% syllabus should be covered in question papers of end semester examination.

Term work:



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Course Code	Course Name	Teaching Scheme(Contact Hours)		Credits assigned		
		Theory	Pract./Tut.	Theory	Pract.tut.	Total
EEC603	Utilization of Electrical Energy (Abbreviated as UEE)	3	1	3	1	4

Course Code	Course Name	Examination Scheme							
		Theory					Term work	Pract. / Oral	Total
		Internal Assessment			End Sem. Exam	Exam. Duration (in Hrs)			
Test 1	Test 2	Avg							
EEC603	Utilization of Electrical Energy (Abbreviated as UEE)	20	20	20	80	03	25	25	150

Course Code	Course Name	Credits
EE603	Utilization of Electric Energy	4
Course Objectives	<ul style="list-style-type: none"> To impart the basic knowledge of some major applications which utilizes electrical energy. 	
Course Outcomes	<ul style="list-style-type: none"> Recognize the need for technical change & ability to learn in the broadest knowledge of Technical Advancement in Traction, Illumination and other 	

	Applications.
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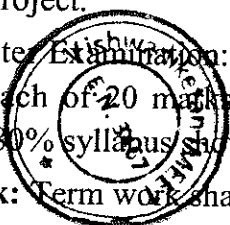
Module	Contents	Hours
1	Systems of Traction: Diesel Traction, Electric Traction, Various systems of Track Electrification like DC, single phase, Three phase & Composite system. Train Movement & Energy Consumption-Typical Speed /Time Curves, Mechanics of Train Movement, Power & Energy output from the driving axles, Specific Energy consumption, Factors affecting Specific Energy consumption, Dead weight, Accelerating weight and Adhesive weight.	12
2	Electric Traction Motors & Control: Suitability of DC/AC motors for traction purpose, Starting & speed control by using rheostat method, series parallel method, Thyristor control method. Power supply for electric traction - Current collection systems and related overhead equipment, substations - location & Distribution System, substation equipment, Traction SCADA & Signaling.	06
3	Illumination Engineering: Basic terms in lighting systems, Laws of illumination, Polar curves, Photometry, Measurement of illumination, sources of light, study of different types of lamps ,types of luminaires , various factors related to luminaire selection, their control, and their features .Types of lighting systems, Recommended Illuminance levels for various tasks/activities/ locations.	10
4	Electric Vehicle (EV) and Hybrid Electric Vehicles (HEV): Architectures of hybrid EV/HEV power system, Energy Sources for EV /HEV applications, Type of motors used in EV/HEV and their comparison.	03
5	Other applications of Electrical Energy: Terminology, Refrigeration cycle, Vapor compression type, vapor absorption type, Electrical circuit of a Refrigerator, Room Air conditioner window type & split type	03
6	Electric heating & Welding: Basic working principle of Arc furnace, Induction furnace, Power supply requirement for furnaces, Electric welding equipment & power supply requirements.	02

Assessment:

Internal Assessment consists of two tests out of which; one should be compulsory class test (on minimum 02 Modules) and the other is either a class test or assignment on live problems or course project.

End Semester Examination: Some guidelines for setting the question papers are six questions to be set each of 20 marks. Out of these any four questions to be attempted by students. Minimum 80% syllabus should be covered in question papers of end semester examination.

Term work: Term work shall consist minimum of eight practicals & tutorials.



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The distribution of marks for the term work shall be as follows:

Laboratory work/Tutorials (Journal)	: 10 marks
Assignments	: 10 marks
Attendance	: 05 marks

The final certification and acceptance of term-work ensures the satisfactory performance of practical work and minimum passing in the term-work.

Oral examination: Oral examination will be based on the entire syllabus.

Books Recommended:

Text Books:

1. Utilization of Electric Energy by J.B.Gupta, SK Kataria & Sons
2. Utilization of Electric Energy by R.K.Rajput, Laxmi Publications(P) Ltd
3. Generation, Distribution and Utilization of Electric Energy by C.L.Wadhwa, Wiley Eastern Ltd
4. I. Hussein, *Electric and Hybrid Vehicles: Design Fundamentals*, CRC Press, 2003.

Reference Books:

1. Art & Science of Utilization of Electric Energy by H.Partap, Dhanpat Rai & Sons
2. Electric Traction By H.Partap, Dhanpat Rai & sons
3. Designing with light-A Lighting Handbook By Anil Valia, Lighting System
4. Generation and Utilization of Electric Energy by S.Sivanagaraju, Pearson Education India
5. M. Ehsani, Y. Gao, S.E. Gay and Ali Emadi, *Modern Electric, Hybrid Electric and Fuel Cell Vehicles: Fundamentals, Theory and Design*, CRC Press. 2005

Website Reference:

<http://nptel.iitm.ac.in> :Introduction to Hybrid and Electric Vehicles - Web course

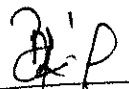
Tutorials:

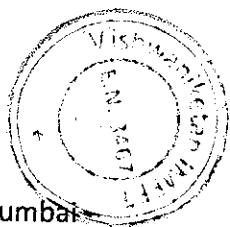
Numerical on Module 1, 2 &3

Practicals :

- 1) Study & Testing of various lamps
- 2) Measurement of lux levels by using Luxmeter
- 3) ~~Visit to a railway workshop near by~~
- 4) Demonstration of Air conditioning system

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University of Mumbai						
Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits assigned		
EEC501	Protection and Switchgear Engineering (Abbreviated as PSE)	Theory	Pract./Tut.	Theory	Pract.tut.	Total
		4	2	4	1	5

Course Code	Course Name	Examination Scheme							
		Theory					Term work	Pract./ Oral	Total
		Internal Assessment			End Sem. Exam.	Exam. Duration (in Hrs)			
		Test 1	Test 2	Avg					
EEC501	Protection and Switchgear Engineering (Abbreviated as PSE)	20	20	20	80	03	25	25	150

Course Code	Course Name	Credits
EE501	Protection and Switchgear Engineering	5
Course Objectives	<ul style="list-style-type: none"> To impart the basic knowledge on power system protection concepts, substation equipment and protection schemes 	
Course Outcomes	<ul style="list-style-type: none"> This knowledge leads to the in depth understanding of how the power system and the major apparatus used in the system are being protected against faults and abnormal conditions 	

Module	Contents	Hours
1	<p>Instrument Transformers:</p> <p>Current Transformers - Introduction, Terms and Definitions, Accuracy class, Burden on CT, Vector diagram of CT, Magnetization curve of CT, Open circuited CT secondary, Polarity of CT and connections, Selection of CT for protection ratings, Types & construction, Multi wound CTs, Intermediate CTs, Transient behavior, Application for various protections.</p> <p>Voltage Transformers - Introduction, Theory of VT, Specifications for VT, Terms & definitions, Accuracy classes & uses, Burdens on VT, Connection of VTs, Residually connected VT, Electromagnetic VT, CVT & CVT as coupling capacitor, Transient behavior of VT, Application of CVT for protective relaying.</p>	04
2	<p>Substation Equipment:</p> <p>Switching Devices:- Isolator & Earthling Switch (Requirements & definitions, Types of construction, Pantograph, Isolators, Ratings),</p>	12

	<p>Contactors(Basic working principle, Terms & definitions, Contactors as starters for motors, Rated characteristics/utilization category of contactors), Circuit Breakers (working principle, Construction, operating mechanisms, Arc initiation, arc quenching principles, ratings & applications of MCB, MCCB, ELCB, air circuit breakers, oil circuit breakers, SF₆ circuit breakers, vacuum circuit breakers, Mechanical life, electrical life and testing of circuit breakers), Switch Boards, Acquaintance with ISI Standards</p> <p>HRC Fuses & their applications-Introduction, types of devices with fuse, definitions, construction, fuse link of HRC fuse, Action of HRC fuse, shape of fuse element, specification of a fuse link, characteristics of fuse, cut-off, classification & categories, selection of fuse links, fuse for protection of motor, discrimination, fuse for protection of radial lines/meshed feeders, equipment incorporating fuses, high voltage current limiting fuses, expulsion type high voltage fuses, drop out fuse.</p>	
3	<p>Introduction to Protective relaying: About protective relaying, Shunt & Series Faults, causes and Effects of faults, Importance of protective relaying, Protective zones, primary & Back-up protection, Back-up protection by time grading principle, desirable qualities of protective relaying, some terms in protective relaying, Distinction between relay unit, protective scheme and Protective system, Actuating quantities, Thermal Relays Electromechanical relays and static relays, Power line carrier channel, programmable relays, system security, role of engineers.</p> <p>Electromagnetic relays - Introduction, basic connections of relay, Auxiliary switch, sealing and auxiliary relays, measurement in relays, Pick up, drop off, Attracted armature & induction disc relays, Thermal, bimetal relays, Frequency relays, under/over voltage relays, DC relays, All or nothing relays.</p> <p>Different Principles of protection - Over current & earth fault (non-directional & directional types) , differential protection, distance protection (Working Principle of Impedance relay, Causes and remedies of Over reach-under reach, Reactance and Mho relay, Power swing blocking relay).</p>	10
4	<p>Protection schemes provided for major apparatus:</p> <p>Generators - Stator side(Differential , Restricted Earth fault, protection for 100% winding, Negative phase sequence, Reverse power, turn-turn fault), Rotor side (Field suppression, field failure, Earth fault, turn to turn fault)</p> <p>Transformers-Differential protection for star delta Transformer, Harmonic restraint relay, REF protection, Protection provided for incipient faults (Gas actuated relay).</p> <p>Induction motors - Protection of motor against overload, short circuit, earth fault, single phasing, unbalance, locked rotor, phase reversal, under voltage, winding temperature</p>	12



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5	Protection of Transmission Lines: Feeder protection - Time grading, current grading, combined time & current grading protection provided for Radial, Ring Main, Parallel, T-Feeder. Bus Zone Protection - Differential protection provided for different types of bus zones. LV, MV, HV Transmission Lines - Protection provided by over current, earth fault, Differential and Stepped distance protection. EHV & UHV Transmission lines - Need for auto reclosure schemes, Carrier aided distance protection (Directional comparison method), Power Line Carrier Current protection (Phase comparison method).	06
6	Introduction to Static & Numerical Relays Advantages and Disadvantages, Revision and application of op-amps, logic gates, DSP, Signal sampling, Relays as comparators (Amplitude & phase), Distance relays as comparators.	04

Assessment:

Internal Assessment consists of two tests out of which; one should be compulsory class test (on minimum 02 Modules) and the other is either a class test or assignment on live problems or course project.

End Semester Examination: Some guidelines for setting the question papers are as, six questions to be set each of 20 marks, out of these any four questions to be attempted by students. Minimum 80% syllabus should be covered in question papers of end semester examination.

Oral Examination on the entire syllabus at the end of semester.

The distribution of marks for the term work shall be as follows:

Laboratory work (experiments)	: 10 marks
Assignments	: 10 marks
Attendance	: 05 marks

The final certification and acceptance of term-work ensures the satisfactory performance of practical work and minimum passing in the term-work.

Books Recommended:

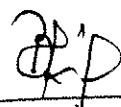
Text Books:

1. Switchgear & Protection by Sunil.S.Rao, Khanna Publications
2. Power system Protection & Switchgear by Badriram Vishwakarma, TMH
3. Power System Protection And Switchgear by Bhuvanesh A O, Nirmal CN, Rashesh PM, Vijay HM, Mc Graw Hill

Reference Books:

1. Fundamentals of protection by Paithanker & Bhide.S.R, P.H.I
2. Static Relays by Madhava Rao, TMH
3. A text book on Power system Engineering by Soni, Gupta, Bhatnagar & Chakraborti, Dhanpat Rai & Co

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4. Protective Relaying by Lewis Blackburn, Thomas.J.Domin
5. Power System Protection by P.M.Anderson, Wiley Interscience

Minimum of 8 Tutorials / Practical Recommended:

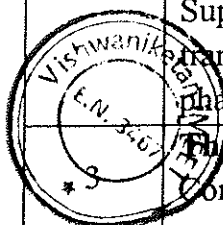
- 1) Demonstration of working parts of the switching / Protective devices
- 2) Demonstration of protection kits for major apparatus used in power system
- 3) ~~Visit to the substation & a report attached with the term work~~

University of Mumbai						
Course Code	Course Name	Teaching Scheme(Contact Hours)		Credits assigned		
EEC502	Electrical Machines-II (Abbreviated as EMC-II)	Theory	Pract./Tut.	Theory	Pract./tut.	Total
		4	2	4	1	5

Course Code	Course Name	Examination Scheme							
		Theory					Term work	Pract./ Oral	Total
		Internal Assessment			End Sem. Exam.	Exam. Duration (in Hrs)			
		Test 1	Test 2	Avg					
EEC502	Electrical Machines-II (Abbreviated as EMC-II)	20	20	20	80	03	25	25*	150

Course Code	Course Name	Credits
EEC502	Electrical Machines- II	5
Course Objectives	<ul style="list-style-type: none"> To impart the knowledge of working principle, operations, performance and applications of Induction Motors and 3ϕ Transformers. 	
Course outcomes	<ul style="list-style-type: none"> Students will be able to understand the engineering fundamentals of induction motor and transformers. Gain an ability to design and conduct performance experiments, as well as to identify, formulate and solve machine related problems. 	

Module	Contents	Hours
1	Three Phase Transformers- Construction & Phasor groups: Construction, Three phase transformer connections and phasor groups.	05
2	Three Phase Transformers- Operation: Parallel operation, Excitation Phenomenon in transformers, Harmonics in three phase transformers, Disadvantages of harmonics in transformers, Suppression of harmonics, Oscillating neutral phenomenon, Switching in transient phenomenon, Open delta or V- connection, Three phase to two phase conversion (Scott connection).	12
	Three Phase Induction Motors-Introduction: Construction, Principle of operation, Rotor frequency, Rotor emf, Current	



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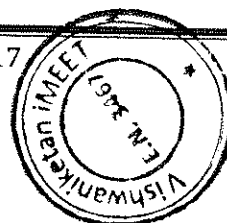
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University of Mumbai						
Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits assigned		
		Theory	Tutorial	Theory	Tutorial	Total
EEC303	Conventional and Non-Conventional Power Generation (abbreviated as CNCPG)	3	1	3	1	4

Course Code	Course Name	Examination Scheme						
		Theory					Term work	Total
		Internal Assessment			End Sem. Exam	Exam Duration (Hrs.)		
		Test 1	Test 2	Avg.				
EEC303	Conventional and Non-conventional Power Generation	20	20	20	80	03	25	125

Course Objectives	<ul style="list-style-type: none"> To impart the knowledge of basics of different types of power generation & power plants in detail so that it helps them in industry oriented learning
Course outcomes	<p>Students will be able</p> <ul style="list-style-type: none"> To analyse the economics of power generation To illustrate, the operation of thermal power plant To describe, the classification of hydro power plant and significance of hydrograph To illustrate, the operation of nuclear power plant To compare the operation of Diesel and Gas Turbine power plant. To illustrate operation of various Non-Conventional Energy sources

Module	Contents	Hours
1	<p>Conventional and Non- Conventional sources of energy Present energy scenario worldwide and Indian perspective.</p> <p>Economics of the power plant Load curve, load duration curve, various factors and effects of fluctuating load on operation and methods of meeting fluctuating load. Selection of generating equipment, depreciation of plant, cost of electrical energy-Fixed and operating cost of different plants, effect of load factor on unit cost. Role of load diversity in power system economy and basic tariff methods (*Numerical).</p>	05



2	<p>Thermal power plant Law of Thermodynamics. Analysis of steam cycle-Carnot, Rankine. PV and TS diagram, Reheat cycle and Regenerative cycle. Layout of power plant. Selection of site, Lay out of Coal handling Plant, pulverized coal handling, Fluidized bed combustion, Ash handling, Dust collection, Forced draught and induced draught fans, Water tube Boiler and Fire tube boiler. Impulse turbine and reaction turbine. Accessories: Feed pump, injector, economizer, air preheater, super heater, steam separator, Direct contact condensers and Surface condenser, and cooling towers.</p>	09
3	<p>Hydro power plant Rainfall, run off and its measurement hydrograph, flow duration curve, mass curve, reservoir storage capacity, layout of hydroelectric power plant, Selection of site, classification of hydro power plant, construction and working of turbine-Pelton, Kaplan, Francis. (*Numerical)</p>	05
4	<p>Nuclear power plant Introduction of nuclear engineering, fission, fusion, nuclear materials, thermal fission reactor, layout of nuclear power plant, Selection of site, PWR, BWR, reactor control, introduction to liquid metal, fast breeder reactors and plasma technology.</p>	06
5	<p>Gas turbine and Diesel power plant Brayton cycle operation, Layout of gas turbine power plant, types of gas turbine power plant. Diesel cycle, Principle of Diesel power plant, layout, significance of components of diesel power plant. Comparison with gas turbine power plants in terms of advantages and disadvantages</p>	04
6	<p>Power Generation using non-conventional energy sources Solar Energy Solar Flat plate collectors, Solar concentrators, Dish and Parabolic trough concentrating generating systems, Central tower solar thermal power plants. Basic principle of power generation in a PV cell, Band gap and efficiency of PV cells solar cell characteristics. Wind Energy Basic component of WEC, Types of wind turbine-HAWT, VAWT, Performance parameters of wind turbine, Power in wind, Wind electric generators and site selection. Fuel Cell Introduction to fuel cell, principle of operation of fuel cell, Types of fuel cell Other sources Basics of power generation: Biomass, geothermal and tidal energy sources and OTEC.</p>	07

Note: *Numerical should be covered in tutorials.



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Books Recommended:

Text Books:

1. MV Deshpande, *Elements of Power station design*, Tata McGraw Hill
2. DH Bacon, *Engineering Thermodynamics*, London Butterworth
3. PK Nag, *Power Plant Engineering-Steam & Nuclear*, Tata McGraw Hill

Reference Books:

1. Fredrick T Morse, *Power Plant Engineering*, East-West Press Pvt Ltd
2. Mahesh Verma, *Power Plant Engineering*, Metrolitan Book Co Pvt Ltd
3. RK Rajput, *A Text Book of Power System engineering*, Laxmi Publication
4. George W Sutton-(Editor), *Direct Energy Conversion*, Lathur University, Electronic Series Vol 3, McGraw Hill

Assessment:

Internal Assessment consists of two tests out of which; one should be compulsory class test (on minimum 02 Modules) and the other is either a class test or assignment on live problems or course project.

Term work:

~~Term work shall consist of minimum two group assignments followed by seminar, report on power plant visit and four tutorials based on the syllabus. The distribution of marks for term work shall be as follows:~~

Tutorial and Visit	:10 marks
Assignments and Seminar	:10 marks
Attendance (Theory and Tutorial)	:05 marks

The final certification and acceptance of term work ensures minimum passing in the term work.

Theory Examination:

1. Question paper will comprise of 6 questions, each carrying 20 marks.
2. Total four questions need to be solved.
- 3: Q.1 will be compulsory, based on entire syllabus wherein sub questions of 2 to 5 marks will be asked.
- 4: Remaining question will be randomly selected from all the modules.



University of Mumbai						
Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Practical	Theory	Practical	Total
EEC706/EEC805	Project-I/II	-	6/12	-	3/6	3/6

Course Code	Course Name	Examination Scheme							Total
		Theory				Practical			
		Internal Assessment			End Sem. Exam	Term Work	Pract. and Oral	Oral	
		Test 1	Test 2	Avg.					
EEC706/EEC805	Project-I/II	-	-	-	-	25/50	-	25/50	50/100

Course Objectives	<ul style="list-style-type: none"> To acquaint with the process of undertaking literature survey/industrial visit and identifying the problem To familiarize the process of problem solving in a group To acquaint with the process of applying basic engineering fundamental in the domain of practical applications To inculcate the process of research
Course Outcomes	<p>Student will be able to...</p> <ul style="list-style-type: none"> Do literature survey/industrial visit and identify the problem Apply basic engineering fundamental in the domain of practical applications Cultivate the habit of working in a team Attempt a problem solution in a right approach Correlate the theoretical and experimental/simulations results and draw the proper inferences Prepare report as per the standard guidelines.

Guidelines for Project

Students should do literature survey/visit industry/analyse current trends and identify the problem for Project and finalize in consultation with Guide/Supervisor.

Students should use multiple literatures and understand the problem.

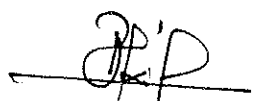
Students should attempt solution to the problem by experimental/simulation methods. The solution to be validated with proper justification and report to be compiled in standard format.

Guidelines for Assessment of Project I

Project I should be assessed based on following points

1. Quality of problem selected
2. Clarity of Problem definition and Feasibility of problem solution

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3. Relevance to the specialization
4. Clarity of objective and scope
5. Breadth and depth of literature survey

Project Report has to be prepared strictly as per University of Mumbai report writing guidelines. Project I should be assessed through a presentation by the student project group to a panel of Internal and External Examiner approved by the University of Mumbai

Guidelines for Assessment of Project II

Project II should be assessed based on following points

1. Quality of problem selected
2. Clarity of Problem definition and Feasibility of problem solution
3. Relevance to the specialization / Industrial trends
4. Clarity of objective and scope
5. Quality of work attempted
6. Validation of results
7. Quality of Written and Oral Presentation

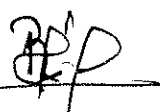
Project Report has to be prepared strictly as per University of Mumbai report writing guidelines. Project II should be assessed through a presentation by the student project group to a panel of Internal and External Examiner approved by the University of Mumbai Students should be motivated to publish a paper in Conferences/students competitions based on the work.

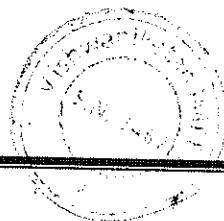
Faculty Load

In semester VII - 1 (one) period of 1/2 hour per week per project group

In semester VIII - 2 (Two) period of 1 hour each per week per project group

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University of Mumbai						
Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits Assigned		
		Theory	Practical	Theory	Practical	Total
EEC706/EEC805	Project-I/II	-	6/12	-	3/6	3/6

Course Code	Course Name	Examination Scheme							Total
		Theory				Practical			
		Internal Assessment			End Sem. Exam	Term Work	Pract. and Oral	Oral	
		Test 1	Test 2	Avg.					
EEC706/EEC805	Project-I/II	-	-	-	-	25/50	-	25/50	50/100

Course Objectives	<ul style="list-style-type: none"> To acquaint with the process of undertaking literature survey/industrial visit and identifying the problem To familiarize the process of problem solving in a group To acquaint with the process of applying basic engineering fundamental in the domain of practical applications To inculcate the process of research
Course Outcomes	<p>Student will be able to</p> <ul style="list-style-type: none"> Do literature survey/industrial visit and identify the problem Apply basic engineering fundamental in the domain of practical applications Cultivate the habit of working in a team Attempt a problem solution in a right approach Correlate the theoretical and experimental/simulations results and draw the proper inferences Prepare report as per the standard guidelines.

Guidelines for Project

Students should do literature survey/visit industry/analyse current trends and identify the problem for Project and finalize in consultation with Guide/Supervisor.

Students should use multiple literatures and understand the problem.

Students should attempt solution to the problem by experimental/simulation methods. The solution to be validated with proper justification and report to be compiled in standard format.

Guidelines for Assessment of Project I

Project I should be assessed based on following points

1. Quality of problem selected
2. Clarity of Problem definition and Feasibility of problem solution.

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3. Relevance to the specialization
4. Clarity of objective and scope
5. Breadth and depth of literature survey

Project Report has to be prepared strictly as per University of Mumbai report writing guidelines. Project I should be assessed through a presentation by the student project group to a panel of Internal and External Examiner approved by the University of Mumbai

Guidelines for Assessment of Project II

Project II should be assessed based on following points

1. Quality of problem selected
2. Clarity of Problem definition and Feasibility of problem solution
3. Relevance to the specialization / Industrial trends
4. Clarity of objective and scope
5. Quality of work attempted
6. Validation of results
7. Quality of Written and Oral Presentation

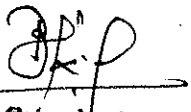
Project Report has to be prepared strictly as per University of Mumbai report writing guidelines. Project II should be assessed through a presentation by the student project group to a panel of Internal and External Examiner approved by the University of Mumbai Students should be motivated to publish a paper in Conferences/students competitions based on the work.

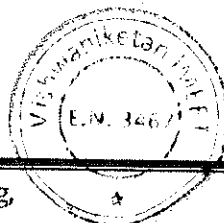
Faculty Load

In semester VII - 1 (one) period of 1/2 hour per week per project group

In semester VIII - 2 (Two) period of 1 hour each per week per project group

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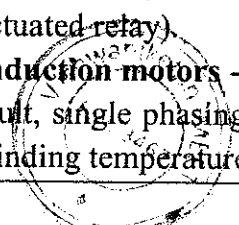
University of Mumbai						
Course Code	Course Name	Teaching Scheme (Contact Hours)		Credits assigned		
EEC501	Protection and Switchgear Engineering (Abbreviated as PSE)	Theory	Pract./Tut.	Theory	Pract.tut.	Total
		4	2	4	1	5

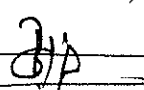
Course Code	Course Name	Examination Scheme							
		Theory					Term work	Pract./ Oral	Total
		Internal Assessment			End Sem. Exam.	Exam. Duration (in Hrs)			
		Test 1	Test 2	Avg					
EEC501	Protection and Switchgear Engineering (Abbreviated as PSE)	20	20	20	80	03	25	25	150

Course Code	Course Name	Credits
EE501	Protection and Switchgear Engineering	5
Course Objectives	<ul style="list-style-type: none"> To impart the basic knowledge on power system protection concepts, substation equipment and protection schemes 	
Course Outcomes	<ul style="list-style-type: none"> This knowledge leads to the in depth understanding of how the power system and the major apparatus used in the system are being protected against faults and abnormal conditions 	

Module	Contents	Hours
1	<p>Instrument Transformers:</p> <p>Current Transformers - Introduction, Terms and Definitions, Accuracy class, Burden on CT, Vector diagram of CT, Magnetization curve of CT, Open circuited CT secondary, Polarity of CT and connections, Selection of CT for protection ratings, Types & construction, Multi wound CTs, Intermediate CTs, Transient behavior, Application for various protections.</p> <p>Voltage Transformers - Introduction, Theory of VT, Specifications for VT, Terms & definitions, Accuracy classes & uses, Burdens on VT, Connection of VTs, Residually connected VT, Electromagnetic VT, CVT & CVT as coupling capacitor, Transient behavior of CVT, Application of VTs in protective relaying.</p>	04
2	<p>Substation Equipment:</p> <p>Switching Devices:- Isolator & Earthing Switch (Requirements & definitions, Types of construction, Photographs, Ratings)</p>	12

	<p>Contactors(Basic working principle, Terms & definitions, Contactors as starters for motors, Rated characteristics/utilization category of contactors), Circuit Breakers (working principle, Construction, operating mechanisms, Arc initiation, arc quenching principles, ratings & applications of MCB, MCCB, ELCB, air circuit breakers, oil circuit breakers, SF₆ circuit breakers, vacuum circuit breakers, Mechanical life, electrical life and testing of circuit breakers), Switch Boards, Acquaintance with ISI Standards</p> <p>HRC Fuses & their applications-Introduction, types of devices with fuse, definitions, construction, fuse link of HRC fuse, Action of HRC fuse, shape of fuse element, specification of a fuse link, characteristics of fuse, cut-off, classification & categories, selection of fuse links, fuse for protection of motor, discrimination, fuse for protection of radial lines/meshed feeders, equipment incorporating fuses, high voltage current limiting fuses, expulsion type high voltage fuses, drop out fuse.</p>	
3	<p>Introduction to Protective relaying: About protective relaying, Shunt & Series Faults, causes and Effects of faults, Importance of protective relaying, Protective zones, primary & Back-up protection, Back-up protection by time grading principle, desirable qualities of protective relaying, some terms in protective relaying, Distinction between relay unit, protective scheme and Protective system, Actuating quantities, Thermal Relays Electromechanical relays and static relays, Power line carrier channel, programmable relays, system security, role of engineers.</p> <p>Electromagnetic relays - Introduction, basic connections of relay, Auxiliary switch, sealing and auxiliary relays, measurement in relays, Pick up, drop off, Attracted armature & induction disc relays, Thermal, bimetal relays, Frequency relays, under/over voltage relays, DC relays, All or nothing relays.</p> <p>Different Principles of protection - Over current & earth fault (non-directional & directional types) , differential protection, distance protection (Working Principle of Impedance relay, Causes and remedies of Over reach-under reach, Reactance and Mho relay, Power swing blocking relay).</p>	10
4	<p>Protection schemes provided for major apparatus: Generators - Stator side(Differential , Restricted Earth fault, protection for 100% winding, Negative phase sequence, Reverse power, turn-turn fault), Rotor side (Field suppression, field failure, Earth fault, turn to turn fault)</p> <p>Transformers-Differential protection for star delta Transformer, Harmonic restraint relay, REF protection, Protection provided for incipient faults (Gas actuated relay).</p> <p>Induction motors - Protection of motor against over load, short circuit, earth fault, single phasing, unbalance, locked rotor, phase reversal, under voltage, winding temperature.</p>	12



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5	<p>Protection of Transmission Lines: Feeder protection - Time grading, current grading, combined time & current grading protection provided for Radial, Ring Main, Parallel, T-Feeder. Bus Zone Protection - Differential protection provided for different types of bus zones. LV, MV, HV Transmission Lines - Protection provided by over current, earth fault, Differential and Stepped distance protection. EHV & UHV Transmission lines - Need for auto reclosure schemes, Carrier aided distance protection (Directional comparison method), Power Line Carrier Current protection (Phase comparison method).</p>	06
6	<p>Introduction to Static & Numerical Relays Advantages and Disadvantages, Revision and application of op-amps, logic gates, DSP, Signal sampling, Relays as comparators (Amplitude & phase), Distance relays as comparators.</p>	04

Assessment:

Internal Assessment consists of two tests out of which; one should be compulsory class test (on minimum 02 Modules) and the other is either a class test or assignment on live problems or course project.

End Semester Examination: Some guidelines for setting the question papers are as, six questions to be set each of 20 marks, out of these any four questions to be attempted by students. Minimum 80% syllabus should be covered in question papers of end semester examination.

Oral Examination on the entire syllabus at the end of semester.

The distribution of marks for the term work shall be as follows:

Laboratory work (experiments)	: 10 marks
Assignments	: 10 marks
Attendance	: 05 marks

The final certification and acceptance of term-work ensures the satisfactory performance of practical work and minimum passing in the term-work.

Books Recommended:

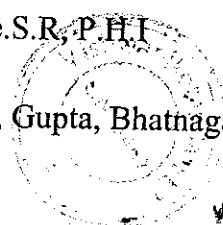
Text Books:

1. Switchgear & Protection by Sunil.S.Rao, Khanna Publications
2. Power system Protection & Switchgear by Badriram Vishwakarma, TMH
3. Power System Protection And Switchgear by Bhuvanesh A O, Nirmal CN, Rashesh PM, Vijay HM, Mc Graw Hill

Reference Books:

1. Fundamentals of protection by Paithanker & Bhide.S.R, P.H.I
2. Static Relays by Madhava Rao, TMH
3. A text book on Power system Engineering by Soni, Gupta, Bhatnagar & Chakraborti, Dhanpat Rai & Co

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4. Protective Relaying by Lewis Blackburn, Thomas.J.Domin
5. Power System Protection by P.M.Anderson, Wiley Interscience

Minimum of 8 Tutorials / Practical Recommended:

- 1) Demonstration of working parts of the switching / Protective devices
- 2) Demonstration of protection kits for major apparatus used in power system
- 3) ~~Visit to the substation & a report attached with the term work~~

University of Mumbai						
Course Code	Course Name	Teaching Scheme(Contact Hours)		Credits assigned		
		Theory	Pract./Tut.	Theory	Pract./tut.	Total
EEC502	Electrical Machines-II (Abbreviated as EMC-II)	4	2	4	1	5

Course Code	Course Name	Examination Scheme							
		Theory					Term work	Pract./ Oral	Total
		Internal Assessment			End Sem. Exam.	Exam. Duration (in Hrs)			
		Test 1	Test 2	Avg					
EEC502	Electrical Machines-II (Abbreviated as EMC-II)	20	20	20	80	03	25	25*	150

Course Code	Course Name	Credits
EEC502	Electrical Machines- II	5
Course Objectives	<ul style="list-style-type: none"> To impart the knowledge of working principle, operations, performance and applications of Induction Motors and 3ϕ Transformers. 	
Course outcomes	<ul style="list-style-type: none"> Students will be able to understand the engineering fundamentals of induction motor and transformers. Gain an ability to design and conduct performance experiments, as well as to identify, formulate and solve machine related problems. 	

Module	Contents	Hours
1	Three Phase Transformers- Construction & Phasor groups: Construction, Three phase transformer connections and phasor groups.	05
2	Three Phase Transformers- Operation: Parallel operation, Excitation Phenomenon in transformers, Harmonics in three phase transformers, Disadvantages of harmonics in transformers, Suppression of harmonics, Oscillating neutral phenomenon in transient phenomenon, Open delta or V- connection, Three phase to two phase conversion (Scott connection).	12
3	Three Phase Induction Motors-Introduction: Construction, Principle of operation, Rotor frequency, Rotor emf, Current	



VISHWANIKETAN

Vishwaniketan's Institute of Management Entrepreneurship & Engineering Technology [ViMEET]

Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE: EN 3467

**Survey No. 52, Kumbhivali, Near Khalapur Toll Naka, Off. Mumbai - Pune Expressway, Tal. Khalapur,
Dist. Raigad, Pin - 410202 Telephone 02192 - 274 206 / 10, Mob. No. +91 9766783646**

Mr. Madhu Bathija
President

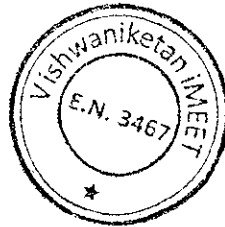
Mr. Sunil Bangar
Secretary

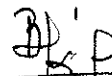
Dr. B. R. Patil
Principal

Date: - 13 May 2022

TO WHOMSOEVER IT MAY CONCERN

Vishwaniketan's Institute of Management Entrepreneurship & Engineering Technology [iMEET] Khalapur is affiliated to the University of Mumbai. The Institute follows the curriculum designed and approved by the university. The Course claimed are as per the affiliating University Curriculum




Dr. B. R. Patil

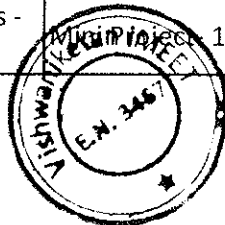
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Vishwaniketan's
Institute of Management Entrepreneurship and Engineering Technology
Survey No-52 Off Mumbai-Pune Expressway Kumbhivali,
Tal- Khalapur, Maharashtra 410203.
Phone: (02192) 274206/274207/274208/274210

Courses that include experiential learning through project work/field work/internship during last five years

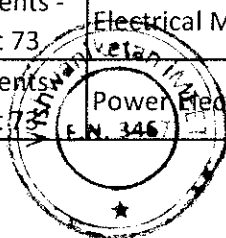
Sr.No	Program name	Program code	No of the student studied course	Name of the Course that include experiential learning through project work/field work/internship	Year of offering	Duration
1	Mechanical Engineering	346761210	SE Students - Count 33	Engineering Mathematics-III	2020-2021	1 Semester
2	Mechanical Engineering	346761210	SE Students - Count 33	Mini Project - 1A	2020-2021	1 Semester
3	Mechanical Engineering	346761210	SE Students - Count 33	Engineering Mathematics-IV	2020-2021	1 Semester
4	Mechanical Engineering	346761210	SE Students - Count 33	Kinematics of Machinery	2020-2021	1 Semester
5	Mechanical Engineering	346761210	SE Students - Count 33	Mini Project - 1B	2020-2021	1 Semester
6	Mechanical Engineering	346761210	TE Students - Count 158	Mechanical Measurement and Control	2020-2021	1 Semester
7	Mechanical Engineering	346761210	TE Students - Count 158	Finite Element Analysis	2020-2021	1 Semester
8	Mechanical Engineering	346761210	TE Students - Count 158	Refrigeration and Air Conditioning	2020-2021	1 Semester
9	Mechanical Engineering	346761210	BE Students - Count 161	Machine Design -II	2020-2021	1 Semester
10	Mechanical Engineering	346761210	BE Students - Count 161	Machine Design -II	2020-2021	1 Semester
11	Mechanical Engineering	346761210	BE Students - Count 161	Project I	2020-2021	1 Semester
12	Mechanical Engineering	346761210	BE Students - Count 161	Design of Mechanical Systems	2020-2021	1 Semester
13	Mechanical Engineering	346761210	BE Students - Count 161	Power Engineering	2020-2021	1 Semester
14	Mechanical Engineering	346761210	BE Students - Count 161	Project- II	2020-2021	1 Semester
15	Civil Engineering	346719110	SE Students - Count 56	Engineering Geology	2020-2021	1 Semester
16	Civil Engineering	346719110	SE Students - Count 56	Skill Base Lab Course- I	2020-2021	1 Semester
17	Civil Engineering	346719110	SE Students - Count 56	Mini Project - 1 A	2020-2021	1 Semester



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18	Civil Engineering	346719110	SE Students - Count 56	Surveying	2020-2021	1 Semester
19	Civil Engineering	346719110	SE Students - Count 56	Skill Base Lab Cours - II	2020-2021	1 Semester
20	Civil Engineering	346719110	SE Students - Count 56	Mini Project- 1 B	2020-2021	1 Semester
21	Civil Engineering	346719110	TE Students - Count 166	Applied Hydraulics	2020-2021	1 Semester
22	Civil Engineering	346719110	TE Students - Count 166	Environmental Engineering - I	2020-2021	1 Semester
23	Civil Engineering	346719110	TE Students - Count 166	Design & Drawing of Steel Structures	2020-2021	1 Semester
24	Civil Engineering	346719110	TE Students - Count 166	Environmental Engineering - II	2020-2021	1 Semester
25	Civil Engineering	346719110	BE Students - Count 183	Quantity Survey Estimation and Valuation	2020-2021	1 Semester
26	Civil Engineering	346719110	BE Students - Count 183	Project - Part I	2020-2021	1 Semester
27	Civil Engineering	346719110	BE Students - Count 183	Design And Drawing of Rainforced Concrate Structures	2020-2021	1 Semester
28	Civil Engineering	346719110	BE Students - Count 183	Project - Part II	2020-2021	1 Semester
29	Electrical Engineering	346729310	SE Students - Count 50	Electrical Machines & Measurements lab	2020-2021	1 Semester
30	Electrical Engineering	346729310	SE Students - Count 50	Electronics Lab-I	2020-2021	1 Semester
31	Electrical Engineering	346729310	SE Students - Count 50	Simulation Lab-I	2020-2021	1 Semester
32	Electrical Engineering	346729310	SE Students - Count 50	SBL-I: Applied Electrical Engineering Lab	2020-2021	1 Semester
33	Electrical Engineering	346729310	SE Students - Count 50	Mini Project-IA	2020-2021	1 Semester
34	Electrical Engineering	346729310	SE Students - Count 50	Electrical AC machines Lab-I	2020-2021	1 Semester
35	Electrical Engineering	346729310	SE Students - Count 50	Python Programming lab	2020-2021	1 Semester
36	Electrical Engineering	346729310	SE Students - Count 50	Electronics Lab II	2020-2021	1 Semester
37	Electrical Engineering	346729310	SE Students - Count 50	SBL-II: PCB Design And Fabrication lab	2020-2021	1 Semester
38	Electrical Engineering	346729310	SE Students - Count 50	Mini Project-1B	2020-2021	1 Semester
39	Electrical Engineering	346729310	TE Students - Count 73	Control System Lab	2020-2021	1 Semester
40	Electrical Engineering	346729310	TE Students - Count 73	Electrical Machines Lab - III	2020-2021	1 Semester
41	Electrical Engineering	346729310	TE Students - Count 73	Power Electronics Lab	2020-2021	1 Semester

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42	Electrical Engineering	346729310	TE Students - Count 73	Electrical Protection Lab	2020-2021	1 Semester
43	Electrical Engineering	346729310	TE Students - Count 73	Electrical Machines Lab - IV	2020-2021	1 Semester
44	Electrical Engineering	346729310	TE Students - Count 73	Microcontroller Lab	2020-2021	1 Semester
45	Electrical Engineering	346729310	TE Students - Count 73	Simulation Lab-II	2020-2021	1 Semester
46	Electrical Engineering	346729310	BE Students - Count 80	Simulation Lab - III	2020-2021	1 Semester
47	Electrical Engineering	346729310	BE Students - Count 80	Drives and Control Lab	2020-2021	1 Semester
48	Electrical Engineering	346729310	BE Students - Count 80	Project- I	2020-2021	1 Semester
49	Electrical Engineering	346729310	BE Students - Count 80	Simulation Lab - IV	2020-2021	1 Semester
50	Electrical Engineering	346729310	BE Students - Count 80	Electrical System Design Lab	2020-2021	1 Semester
51	Electrical Engineering	346729310	BE Students - Count 80	Project - II	2020-2021	1 Semester
52	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Electronic Devices & Circuits Lab	2020-2021	1 Semester
53	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Digital System Design Lab	2020-2021	1 Semester
54	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Electronic Instrumentation & Control Systems Lab	2020-2021	1 Semester
55	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Skill Lab: C++ and Java Programming	2020-2021	1 Semester
56	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Mini Project 1 A	2020-2021	1 Semester

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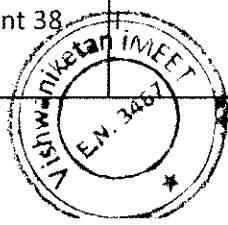


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Principal
Vishwaniketan's (i IMET)

57	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Microcontrollers lab	2020-2021	1 Semester
58	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Linear Integrated Circuits Lab	2020-2021	1 Semester
59	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Principles of Communication Engineering Lab	2020-2021	1 Semester
60	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Skill Lab: Python Programming	2020-2021	1 Semester
61	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Mini Project 1B	2020-2021	1 Semester
62	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	microprocessor & Peripherals Interfacing lab	2020-2021	1 Semester
63	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Digital Communication lab	2020-2021	1 Semester
64	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Business Communication & Ethics Lab	2020-2021	1 Semester
65	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Open Source Technology For Communication Lab	2020-2021	1 Semester
66	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Department level Optional lab	2020-2021	1 Semester

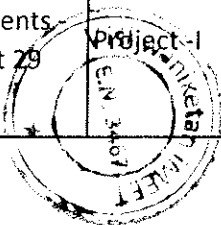
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Principal



67	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Microcontrollers & Applications Lab	2020-2021	1 Semester
68	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Computer Communication Networks	2020-2021	1 Semester
69	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Antenna & Radio Wave Propagation	2020-2021	1 Semester
70	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Image Processing and machine Vision Lab	2020-2021	1 Semester
71	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Department Level Optional lab II	2020-2021	1 Semester
72	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Microwave Engineering Lab	2020-2021	1 Semester
73	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Mobile Communication Lab	2020-2021	1 Semester
74	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Optical Communication	2020-2021	1 Semester
75	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Department Level Optional Lab III	2020-2021	1 Semester
76	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Project-I	2020-2021	1 Semester

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Principal

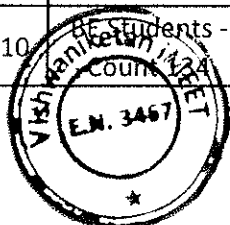
Vishwaniketan's (I) MEET

77	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	RF Design lab	2020-2021	1 Semester
78	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Wireless Networks lab	2020-2021	1 Semester
79	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Department Level Optional lab IV	2020-2021	1 Semester
80	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Project-II	2020-2021	1 Semester
81	Computer Engineering	346724510	SE Students - Count 48	Data Structure Lab	2020-2021	1 Semester
82	Computer Engineering	346724510	SE Students - Count 48	Digital Logic & Computer Architecture Lab	2020-2021	1 Semester
83	Computer Engineering	346724510	SE Students - Count 48	Computer Graphics Lab	2020-2021	1 Semester
84	Computer Engineering	346724510	SE Students - Count 48	Skill Base Lab Course: Object Oriented Programming with Java	2020-2021	1 Semester
85	Computer Engineering	346724510	SE Students - Count 48	Mini Project 1 - A	2020-2021	1 Semester
36	Computer Engineering	346724510	SE Students - Count 48	Analysis of Algorithm Lab	2020-2021	1 Semester
87	Computer Engineering	346724510	SE Students - Count 48	Database management System Lab	2020-2021	1 Semester
88	Computer Engineering	346724510	SE Students - Count 48	Operating System Lab	2020-2021	1 Semester
89	Computer Engineering	346724510	SE Students - Count 75	Microprocessor Lab	2020-2021	1 Semester
90	Computer Engineering	346724510	SE Students - Count 75	Skill Base Lab Course: Python Programming	2020-2021	1 Semester
91	Computer Engineering	346724510	SE Students - Count 75	Mini Project 1 - B	2020-2021	1 Semester
92	Computer Engineering	346724510	TE Students - Count 75	Microprocessor Lab	2020-2021	1 Semester
93	Computer Engineering	346724510	TE Students - Count 75	Computer Network Lab	2020-2021	1 Semester
94	Computer Engineering	346724510	TE Students - Count 75	Database & Information System Lab	2020-2021	1 Semester

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Vishwaniketan's (i MBET)

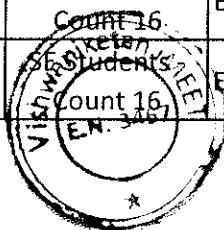
95	Computer Engineering	346724510	TE Students - Count 75	Web Design Lab	2020-2021	1 Semester
96	Computer Engineering	346724510	TE Students - Count 75	Business Comm. & Ethics	2020-2021	1 Semester
97	Computer Engineering	346724510	TE Students - Count 75	Software Engineering Lab	2020-2021	1 Semester
98	Computer Engineering	346724510	TE Students - Count 75	System Software Lab	2020-2021	1 Semester
99	Computer Engineering	346724510	TE Students - Count 75	Data Warehousing & Mining Lab	2020-2021	1 Semester
100	Computer Engineering	346724510	TE Students - Count 75	System Security Lab	2020-2021	1 Semester
101	Computer Engineering	346724510	TE Students - Count 75	Mini Project	2020-2021	1 Semester
102	Computer Engineering	346724510	BE Students - Count 69	Digital Signal & Image Processing Lab	2020-2021	1 Semester
103	Computer Engineering	346724510	BE Students - Count 69	Mobile App. Development Tech. Lab	2020-2021	1 Semester
104	Computer Engineering	346724510	BE Students - Count 69	Artificial Intelligence & Soft Computing Lab	2020-2021	1 Semester
105	Computer Engineering	346724510	BE Students - Count 69	Computational Lab- I	2020-2021	1 Semester
106	Computer Engineering	346724510	BE Students - Count 69	Major Project- I	2020-2021	1 Semester
107	Computer Engineering	346724510	BE Students - Count 69	Human Machine Interaction Lab	2020-2021	1 Semester
108	Computer Engineering	346724510	BE Students - Count 69	Distributed Computing Lab	2020-2021	1 Semester
109	Computer Engineering	346724510	BE Students - Count 69	Cloud Computing Lab	2020-2021	1 Semester
110	Computer Engineering	346724510	BE Students - Count 69	Computational Lab- II	2020-2021	1 Semester
111	Computer Engineering	346724510	BE Students - Count 69	Major Project- II	2020-2021	1 Semester
112	Mechanical Engineering	346761210	SE Students - Count 135	Fluid Mechanics	2019-2020	1 Semester
113	Mechanical Engineering	346761210	SE Students - Count 135	Kinematics of Machinery	2019-2020	1 Semester
114	Mechanical Engineering	346761210	TE Students - Count 145	Mechanical Measurement and Control	2019-2020	1 Semester
115	Mechanical Engineering	346761210	TE Students - Count 145	Finite Element Analysis	2019-2020	1 Semester
116	Mechanical Engineering	346761210	TE Students - Count 145	Refrigeration and Air Conditioning	2019-2020	1 Semester
117	Mechanical Engineering	346761210	BE Students - Count 134	Machine Design -II	2019-2020	1 Semester
118	Mechanical Engineering	346761210	BE Students - Count 134	CAD/CAM/CAE	2019-2020	1 Semester



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2019-2020

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Vishwaniketan's (I) MEET

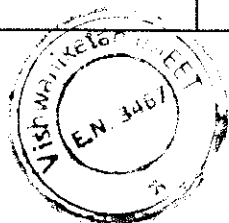
119	Mechanical Engineering	346761210	BE Students - Count 134	Project I	2019-2020	1 Semester
120	Mechanical Engineering	346761210	BE Students - Count 134	Design of Mechanical Systems	2019-2020	1 Semester
121	Mechanical Engineering	346761210	BE Students - Count 134	Power Engineering	2019-2020	1 Semester
122	Mechanical Engineering	346761210	BE Students - Count 134	Project- II	2019-2020	1 Semester
123	Civil Engineering	346719110	SE Students - Count 148	Surveying- I	2019-2020	1 Semester
124	Civil Engineering	346719110	SE Students - Count 148	Engineering Geology	2019-2020	1 Semester
125	Civil Engineering	346719110	SE Students - Count 148	Surveying- II	2019-2020	1 Semester
126	Civil Engineering	346719110	SE Students - Count 148	Building Design & Drawing	2019-2020	1 Semester
127	Civil Engineering	346719110	TE Students - Count 132	Applied Hydraulics	2019-2020	1 Semester
128	Civil Engineering	346719110	TE Students - Count 132	Environmental Engineering - I	2019-2020	1 Semester
129	Civil Engineering	346719110	TE Students - Count 132	Design & Drawing of Steel Structures	2019-2020	1 Semester
130	Civil Engineering	346719110	TE Students - Count 132	Transportation Engineering- II	2019-2020	1 Semester
131	Civil Engineering	346719110	TE Students - Count 132	Environmental Engineering - II	2019-2020	1 Semester
132	Civil Engineering	346719110	BE Students - Count 128	Quantity Survey Estimation and Valuation	2019-2020	1 Semester
133	Civil Engineering	346719110	BE Students - Count 128	Water Resource Engineering- II	2019-2020	1 Semester
134	Civil Engineering	346719110	BE Students - Count 128	Project - Part I	2019-2020	1 Semester
135	Civil Engineering	346719110	BE Students - Count 128	Design And Drawing of Reinforced Concrete Structures	2019-2020	1 Semester
136	Civil Engineering	346719110	BE Students - Count 128	Project - Part II	2019-2020	1 Semester
137	Electrical Engineering	346729310	SE Students - Count 16	Conventional and Non-Conventional Power Generation	2019-2020	1 Semester
138	Electrical Engineering	346729310	SE Students - Count 16	Electrical & Electronics Measurement - lab	2019-2020	1 Semester
139	Electrical Engineering	346729310	SE Students - Count 16	Object Oriented Programming and Methodology Lab	2019-2020	1 Semester
140	Electrical Engineering	346729310	SE Students - Count 16	Electronics Lab - I	2019-2020	1 Semester
141	Electrical Engineering	346729310	SE Students - Count 16	Electrical Machine Lab - I	2019-2020	1 Semester



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142	Electrical Engineering	346729310	SE Students - Count 16	Simulation Lab - I	2019-2020	1 Semester
143	Electrical Engineering	346729310	SE Students - Count 16	Electrical Machines Lab - II	2019-2020	1 Semester
144	Electrical Engineering	346729310	SE Students - Count 16	Electronics Lab - II	2019-2020	1 Semester
145	Electrical Engineering	346729310	SE Students - Count 16	Electrical Workshop	2019-2020	1 Semester
146	Electrical Engineering	346729310	TE Students - Count 15	Control System Lab	2019-2020	1 Semester
147	Electrical Engineering	346729310	TE Students - Count 15	Electrical Machines Lab - III	2019-2020	1 Semester
148	Electrical Engineering	346729310	TE Students - Count 15	Power Electronics Lab	2019-2020	1 Semester
149	Electrical Engineering	346729310	TE Students - Count 15	Electrical Protection Lab	2019-2020	1 Semester
150	Electrical Engineering	346729310	TE Students - Count 15	Electrical Machines Lab - IV	2019-2020	1 Semester
151	Electrical Engineering	346729310	TE Students - Count 15	Microcontroller Lab	2019-2020	1 Semester
152	Electrical Engineering	346729310	TE Students - Count 15	Simulation Lab-II	2019-2020	1 Semester
153	Electrical Engineering	346729310	BE Students - Count 65	High Voltage Direct Current Transmission	2019-2020	1 Semester
154	Electrical Engineering	346729310	BE Students - Count 65	Simulation Lab - III	2019-2020	1 Semester
155	Electrical Engineering	346729310	BE Students - Count 65	Drives and Control Lab	2019-2020	1 Semester
156	Electrical Engineering	346729310	BE Students - Count 65	Project- I	2019-2020	1 Semester
157	Electrical Engineering	346729310	BE Students - Count 65	Simulation Lab - IV	2019-2020	1 Semester
158	Electrical Engineering	346729310	BE Students - Count 65	Electrical System Design Lab	2019-2020	1 Semester
159	Electrical Engineering	346729310	BE Students - Count 65	Project - II	2019-2020	1 Semester
160	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Electronic Devices & Circuits I Lab	2019-2020	1 Semester
161	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Digital System Design Lab	2019-2020	1 Semester

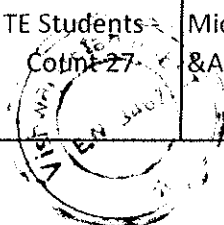


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Principal
Vishwaniketan's (i MEET)

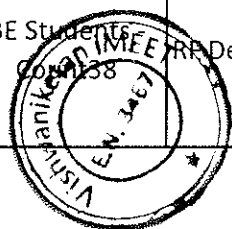
162	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	OOPM using JAVA Lab	2019-2020	1 Semester
163	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Electronic Devices & Circuits II Lab	2019-2020	1 Semester
164	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Linear Integrated Circuits - Lab	2019-2020	1 Semester
165	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Principles of Communication Engineering Lab	2019-2020	1 Semester
166	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	microprocessor & Peripherals Interfacing lab	2019-2020	1 Semester
167	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Digital Communication lab	2019-2020	1 Semester
168	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Business Communication & Ethics Lab	2019-2020	1 Semester
169	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Open Source Technology For Communication Lab	2019-2020	1 Semester
170	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Department level Optional lab-I	2019-2020	1 Semester
171	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Microcontrollers & Applications Lab	2019-2020	1 Semester

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172	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Computer Communication Networks	2019-2020	1 Semester
173	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Antenna & Radio Wave Propagation	2019-2020	1 Semester
174	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Image Processing and machine Vision Lab	2019-2020	1 Semester
175	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Department Level Optional lab II	2019-2020	1 Semester
176	Electronics and Telecommunication Engineering	346737210	BE Students - Count 38	Microwave Engineering Lab	2019-2020	1 Semester
177	Electronics and Telecommunication Engineering	346737210	BE Students - Count 38	Mobile Communication Lab	2019-2020	1 Semester
178	Electronics and Telecommunication Engineering	346737210	BE Students - Count 38	Optical Communication	2019-2020	1 Semester
179	Electronics and Telecommunication Engineering	346737210	BE Students - Count 38	Department Level Optional Lab III	2019-2020	1 Semester
180	Electronics and Telecommunication Engineering	346737210	BE Students - Count 38	Project -I	2019-2020	1 Semester
181	Electronics and Telecommunication Engineering	346737210	BE Students - Count 38	RF Design lab	2019-2020	1 Semester



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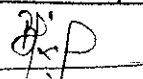
182	Electronics and Telecommunication Engineering	346737210	BE Students - Count38	Wireless Networks lab	2019-2020	1 Semester
183	Electronics and Telecommunication Engineering	346737210	BE Students - Count38	Department Level Optional lab IV	2019-2020	1 Semester
184	Electronics and Telecommunication Engineering	346737210	BE Students - Count38	Project-II	2019-2020	1 Semester
85	Computer Engineering	346724510	SE Students - Count 64	Digital System Lab	2019-2020	1 Semester
186	Computer Engineering	346724510	SE Students - Count 64	Basic Electronics Lab	2019-2020	1 Semester
187	Computer Engineering	346724510	SE Students - Count 64	Data Structures Lab	2019-2020	1 Semester
188	Computer Engineering	346724510	SE Students - Count 64	OOPM (JAVA) Lab	2019-2020	1 Semester
189	Computer Engineering	346724510	SE Students - Count 64	Analysis of Algorithms Lab	2019-2020	1 Semester
190	Computer Engineering	346724510	SE Students - Count 64	Computer Graphics Lab	2019-2020	1 Semester
191	Computer Engineering	346724510	SE Students - Count 64	Processor Architecture Lab	2019-2020	1 Semester
192	Computer Engineering	346724510	SE Students - Count 64	Operating System Lab	2019-2020	1 Semester
193	Computer Engineering	346724510	SE Students - Count 64	Open Source Tech Lab	2019-2020	1 Semester
194	Computer Engineering	346724510	TE Students - Count 71	Microprocessor Lab	2019-2020	1 Semester
195	Computer Engineering	346724510	TE Students - Count 71	Computer Network Lab	2019-2020	1 Semester
196	Computer Engineering	346724510	TE Students - Count 71	Database & Information System Lab	2019-2020	1 Semester
197	Computer Engineering	346724510	TE Students - Count 71	Web Design Lab	2019-2020	1 Semester
198	Computer Engineering	346724510	TE Students - Count 71	Business Comm. & Ethics	2019-2020	1 Semester
199	Computer Engineering	346724510	TE Students - Count 71	Software Engineering Lab	2019-2020	1 Semester
200	Computer Engineering	346724510	TE Students - Count 71	System Software Lab	2019-2020	1 Semester
201	Computer Engineering	346724510	TE Students - Count 71	Data Warehousing & Mining Lab	2019-2020	1 Semester

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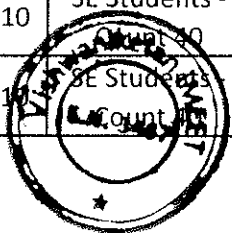
Principal
Vishwaniketan's (I MBEET)

202	Computer Engineering	346724510	TE Students - Count 71	System Security Lab	2019-2020	1 Semester
203	Computer Engineering	346724510	TE Students - Count 71	Mini Project	2019-2020	1 Semester
204	Computer Engineering	346724510	BE Students - Count 79	Digital Signal & Image Processing Lab	2019-2020	1 Semester
205	Computer Engineering	346724510	BE Students - Count 79	Mobile App. Development Tech. Lab	2019-2020	1 Semester
206	Computer Engineering	346724510	BE Students - Count 79	Artificial Intelligence & Soft Computing Lab	2019-2020	1 Semester
207	Computer Engineering	346724510	BE Students - Count 79	Computational Lab- I	2019-2020	1 Semester
208	Computer Engineering	346724510	BE Students - Count 79	Major Prject- I	2019-2020	1 Semester
209	Computer Engineering	346724510	BE Students - Count 79	Human Machine Intearaction Lab	2019-2020	1 Semester
210	Computer Engineering	346724510	BE Students - Count 79	Distributed Computing Lab	2019-2020	1 Semester
211	Computer Engineering	346724510	BE Students - Count 79	Cloud Computing Lab	2019-2020	1 Semester
212	Computer Engineering	346724510	BE Students - Count 79	Computational Lab- II	2019-2020	1 Semester
213	Computer Engineering	346724510	BE Students - Count 79	PROJECT-II	2019-2020	1 Semester
214	Mechanical Engineering	346761210	SE Students - Count 136	Fluid Mechanics	2018-2019	1 Semester
215	Mechanical Engineering	346761210	TE Students - Count 143	Mechanical Measurement and Control	2018-2019	1 Semester
216	Mechanical Engineering	346761210	TE Students - Count 143	Finite Element Analysis	2018-2019	1 Semester
217	Mechanical Engineering	346761210	TE Students - Count 143	Refrigeration and Air Conditioning	2018-2019	1 Semester
218	Mechanical Engineering	346761210	BE Students - Count 148	Machine Design- II	2018-2019	1 Semester
219	Mechanical Engineering	346761210	BE Students - Count 148	CAD/CAM/CAE	2018-2019	1 Semester
220	Mechanical Engineering	346761210	BE Students - Count 148	Power Plant Engineering	2018-2019	1 Semester
221	Mechanical Engineering	346761210	BE Students - Count 148	Project- I	2018-2019	1 Semester
222	Mechanical Engineering	346761210	BE Students - Count 148	Design of Mechanical Systems	2018-2019	1 Semester
223	Mechanical Engineering	346761210	BE Students - Count 148	Industrial Engineering and Management	2018-2019	1 Semester
224	Mechanical Engineering	346761210	BE Students - Count 148	Refrigeration and Air Conditioning	2018-2019	1 Semester
225	Mechanical Engineering	346761210	BE Students - Count 148	Renewable Energy Sources	2018-2019	1 Semester

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2018-2019


Principal
Vishwaniketan's (i MBET)

226	Mechanical Engineering	346761210	BE Students - Count 148	Automobile Engineering	2018-2019	1 Semester
227	Civil Engineering	346719110	SE Students - Count 139	Surveying- I	2018-2019	1 Semester
228	Civil Engineering	346719110	SE Students - Count 139	Engineering Geology	2018-2019	1 Semester
229	Civil Engineering	346719110	SE Students - Count 139	Surveying- II	2018-2019	1 Semester
230	Civil Engineering	346719110	SE Students - Count 139	Building Design & Drawing	2018-2019	1 Semester
231	Civil Engineering	346719110	TE Students - Count 71	Applied Hydraulics	2018-2019	1 Semester
232	Civil Engineering	346719110	TE Students - Count 157	Environmental Engineering - I	2018-2019	1 Semester
233	Civil Engineering	346719110	TE Students - Count 157	Design & Drawing of Steel Structures	2018-2019	1 Semester
234	Civil Engineering	346719110	TE Students - Count 157	Environmental Engineering - II	2018-2019	1 Semester
235	Civil Engineering	346719110	BE Students - Count 127	Environmental Engineering -II	2018-2019	1 Semester
236	Civil Engineering	346719110	BE Students - Count 127	Project- part I	2018-2019	1 Semester
237	Civil Engineering	346719110	BE Students - Count 127	Design & Drawing of Reinforced Concrete Structures	2018-2019	1 Semester
238	Civil Engineering	346719110	BE Students - Count 127	Construction Engineering	2018-2019	1 Semester
239	Civil Engineering	346719110	BE Students - Count 127	Project-Part II	2018-2019	1 Semester
240	Electrical Engineering	346729310	SE Students - Count 40	Conventional and Non-Conventional Power Generation	2018-2019	1 Semester
241	Electrical Engineering	346729310	SE Students - Count 40	Electrical & Electronics Measurement - lab	2018-2019	1 Semester
242	Electrical Engineering	346729310	SE Students - Count 40	Object Oriented Programming and Methodology Lab	2018-2019	1 Semester
243	Electrical Engineering	346729310	SE Students - Count 40	Electronics Lab - I	2018-2019	1 Semester
244	Electrical Engineering	346729310	SE Students - Count 40	Electrical Machine Lab - I	2018-2019	1 Semester
245	Electrical Engineering	346729310	SE Students - Count 40	Simulation Lab - I	2018-2019	1 Semester
246	Electrical Engineering	346729310	SE Students - Count 40	Electrical Machines Lab - II	2018-2019	1 Semester
247	Electrical Engineering	346729310	SE Students - Count 40	Electronics Lab - II	2018-2019	1 Semester
248	Electrical Engineering	346729310	SE Students - Count 40	Electrical Workshop	2018-2019	1 Semester



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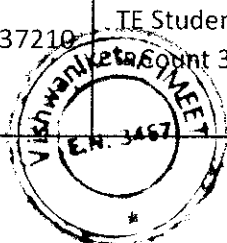
249	Electrical Engineering	346729310	TE Students - Count 69	Control System Lab	2018-2019	1 Semester
250	Electrical Engineering	346729310	TE Students - Count 69	Electrical Machines Lab - III	2018-2019	1 Semester
251	Electrical Engineering	346729310	TE Students - Count 69	Power Electronics Lab	2018-2019	1 Semester
252	Electrical Engineering	346729310	TE Students - Count 69	Electrical Protection Lab	2018-2019	1 Semester
253	Electrical Engineering	346729310	TE Students - Count 69	Electrical Machines Lab - IV	2018-2019	1 Semester
254	Electrical Engineering	346729310	TE Students - Count 69	Microcontroller Lab	2018-2019	1 Semester
255	Electrical Engineering	346729310	TE Students - Count 69	Simulation Lab-II	2018-2019	1 Semester
256	Electrical Engineering	346729310	BE Students - Count 76	Power System Operation & Control	2018-2019	1 Semester
257	Electrical Engineering	346729310	BE Students - Count 76	High Voltage DC Transmission	2018-2019	1 Semester
258	Electrical Engineering	346729310	BE Students - Count 76	Electrical Machine Design	2018-2019	1 Semester
259	Electrical Engineering	346729310	BE Students - Count 76	Control System- II	2018-2019	1 Semester
260	Electrical Engineering	346729310	BE Students - Count 76	Project - I	2018-2019	1 Semester
261	Electrical Engineering	346729310	BE Students - Count 76	Design, Management & Auditing of Electrical Systems	2018-2019	1 Semester
262	Electrical Engineering	346729310	BE Students - Count 76	Drives & Control	2018-2019	1 Semester
263	Electrical Engineering	346729310	BE Students - Count 76	Power System Planning & Reliability	2018-2019	1 Semester
264	Electrical Engineering	346729310	BE Students - Count 76	Project - II	2018-2019	1 Semester
265	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Electronic Devices & Circuits I Lab	2018-2019	1 Semester
266	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Digital System Design Lab	2018-2019	1 Semester
267	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	OOPM using JAVA Lab	2018-2019	1 Semester

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Vishwaniketan's (i MEET)

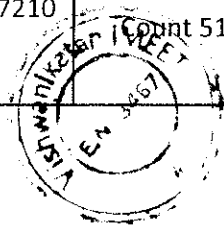
268	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Electronic Devices & Circuits II Lab	2018-2019	1 Semester
269	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Linear Integrated Circuits - Lab	2018-2019	1 Semester
270	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Principles of Communication Engineering Lab	2018-2019	1 Semester
271	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	microprocessor & Peripherals Interfacing lab	2018-2019	1 Semester
272	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Digital Communication lab	2018-2019	1 Semester
273	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Business Communication & Ethics Lab	2018-2019	1 Semester
274	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Open Source Technology For Communication Lab	2018-2019	1 Semester
275	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Department level Optional lab-I	2018-2019	1 Semester
276	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Department Level Optional Course II	2018-2019	1 Semester
277	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Microcontrollers & Applications Lab	2018-2019	1 Semester




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Principal
Vishwaniketan's (I) MEET

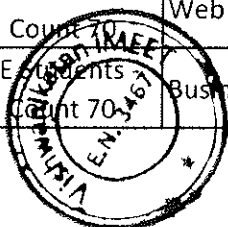
278	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Computer Communication Networks	2018-2019	1 Semester
279	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Antenna & Radio Wave Propagation	2018-2019	1 Semester
280	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Image Processing and machine Vision Lab	2018-2019	1 Semester
281	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Department Level Optional lab II	2018-2019	1 Semester
282	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Image and Video Processing Laboratory	2018-2019	1 Semester
283	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Advanced Communication Engineering Laboratory I	2018-2019	1 Semester
284	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Advanced Communication Engineering Laboratory II	2018-2019	1 Semester
285	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Elective	2018-2019	1 Semester
286	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Project Stage I	2018-2019	1 Semester
287	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Wireless Networks Laboratory	2018-2019	1 Semester




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288	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Satellite Communication and Networks Laboratory	2018-2019	1 Semester
289	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Internet and Voice Communication Laboratory	2018-2019	1 Semester
290	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Elective Laboratory	2018-2019	1 Semester
291	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Project-II	2018-2019	1 Semester
292	Computer Engineering	346724510	SE Students - Count 73	Digital System Lab	2018-2019	1 Semester
293	Computer Engineering	346724510	SE Students - Count 73	Basic Electronics Lab	2018-2019	1 Semester
294	Computer Engineering	346724510	SE Students - Count 73	Data Structures Lab	2018-2019	1 Semester
295	Computer Engineering	346724510	SE Students - Count 73	OOPM (JAVA) Lab	2018-2019	1 Semester
296	Computer Engineering	346724510	SE Students - Count 73	Analysis of Algorithms Lab	2018-2019	1 Semester
297	Computer Engineering	346724510	SE Students - Count 73	Computer Graphics Lab	2018-2019	1 Semester
298	Computer Engineering	346724510	SE Students - Count 73	Processor Architecture Lab	2018-2019	1 Semester
299	Computer Engineering	346724510	SE Students - Count 73	Operating System Lab	2018-2019	1 Semester
300	Computer Engineering	346724510	SE Students - Count 73	Open Source Tech Lab	2018-2019	1 Semester
301	Computer Engineering	346724510	TE Students - Count 70	Microprocessor Lab	2018-2019	1 Semester
302	Computer Engineering	346724510	TE Students - Count 70	Computer Network Lab	2018-2019	1 Semester
303	Computer Engineering	346724510	TE Students - Count 70	Database & Information System Lab	2018-2019	1 Semester
304	Computer Engineering	346724510	TE Students - Count 70	Web Design Lab	2018-2019	1 Semester
305	Computer Engineering	346724510	TE Students - Count 70	Business Comm. & Ethics	2018-2019	1 Semester



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Principal
Vishwaniketan's (i) MEET

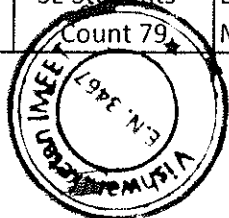
306	Computer Engineering	346724510	TE Students - Count 70	Software Engineering Lab	2018-2019	1 Semester
307	Computer Engineering	346724510	TE Students - Count 70	System Software Lab	2018-2019	1 Semester
308	Computer Engineering	346724510	TE Students - Count 70	Data Warehousing & Mining Lab	2018-2019	1 Semester
309	Computer Engineering	346724510	TE Students - Count 70	System Security Lab	2018-2019	1 Semester
310	Computer Engineering	346724510	TE Students - Count 70	Mini Project	2018-2019	1 Semester
311	Computer Engineering	346724510	BE Students - Count 77	Digital Signal Processing	2018-2019	1 Semester
312	Computer Engineering	346724510	BE Students - Count 77	Cryptography and System Security	2018-2019	1 Semester
313	Computer Engineering	346724510	BE Students - Count 77	Artificial Intelligence	2018-2019	1 Semester
314	Computer Engineering	346724510	BE Students - Count 77	Elective -II	2018-2019	1 Semester
315	Computer Engineering	346724510	BE Students - Count 77	Project - I	2018-2019	1 Semester
316	Computer Engineering	346724510	BE Students - Count 77	Network Threats and Attacks Laboratory	2018-2019	1 Semester
317	Computer Engineering	346724510	BE Students - Count 77	Data Warehouse and Mining	2018-2019	1 Semester
318	Computer Engineering	346724510	BE Students - Count 77	Human Machine Interaction	2018-2019	1 Semester
319	Computer Engineering	346724510	BE Students - Count 77	Parallel and Distributed Systems	2018-2019	1 Semester
320	Computer Engineering	346724510	BE Students - Count 77	Elective -III	2018-2019	1 Semester
321	Computer Engineering	346724510	BE Students - Count 77	Cloud Computing Laboratory	2018-2019	1 Semester
322	Computer Engineering	346724510	BE Students - Count 77	Project-II	2018-2019	1 Semester
323	Mechanical Engineering	346761210	SE Students - Count 150	Fluid Mechanics	2017-2018	1 Semester
324	Mechanical Engineering	346761210	TE Students - Count 156	Thermal and Fluid Power Engineering	2017-2018	1 Semester
325	Mechanical Engineering	346761210	TE Students - Count 156	Mechatronics	2017-2018	1 Semester
326	Mechanical Engineering	346761210	TE Students - Count 156	Finite Element Analysis	2017-2018	1 Semester
327	Mechanical Engineering	346761210	BE Students - Count 145	Machine Design- II	2017-2018	1 Semester
328	Mechanical Engineering	346761210	BE Students - Count 145	CAD/CAM/CAE	2017-2018	1 Semester
329	Mechanical Engineering	346761210	BE Students - Count 145	Power Plant Engineering	2017-2018	1 Semester



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Vishwaniketan's (I.M.E.T)

330	Mechanical Engineering	346761210	BE Students - Count 145	Project- I	2017-2018	1 Semester
331	Mechanical Engineering	346761210	BE Students - Count 145	Design of Mechanical Systems	2017-2018	1 Semester
332	Mechanical Engineering	346761210	BE Students - Count 145	Industrial Engineering and Management	2017-2018	1 Semester
333	Mechanical Engineering	346761210	BE Students - Count 145	Refrigeration and Air Conditioning	2017-2018	1 Semester
334	Mechanical Engineering	346761210	BE Students - Count 145	Renewable Energy Sources	2017-2018	1 Semester
335	Mechanical Engineering	346761210	BE Students - Count 145	Automobile Engineering	2017-2018	1 Semester
336	Mechanical Engineering	346761210	BE Students - Count 145	Project- II	2017-2018	1 Semester
337	Civil Engineering	346719110	SE Students - Count 154	Surveying- I	2017-2018	1 Semester
338	Civil Engineering	346719110	SE Students - Count 154	Engineering Geology	2017-2018	1 Semester
339	Civil Engineering	346719110	SE Students - Count 154	Surveying II	2017-2018	1 Semester
340	Civil Engineering	346719110	SE Students - Count 154	Building Design & Drawing I	2017-2018	1 Semester
341	Civil Engineering	346719110	SE Students - Count 154	Building Design & Drawing-II	2017-2018	1 Semester
342	Civil Engineering	346719110	TE Students - Count 135	Applied Hydraulics -I	2017-2018	1 Semester
343	Civil Engineering	346719110	TE Students - Count 135	Design And Drawing Of Steel Structures	2017-2018	1 Semester
344	Civil Engineering	346719110	TE Students - Count 135	Applied Hydraulics -II	2017-2018	1 Semester
345	Civil Engineering	346719110	TE Students - Count 135	Environmental Engg-I	2017-2018	1 Semester
346	Civil Engineering	346719110	BE Students - Count 103	Environmental Engineering -II	2017-2018	1 Semester
347	Civil Engineering	346719110	BE Students - Count 103	Project- part I	2017-2018	1 Semester
348	Civil Engineering	346719110	BE Students - Count 103	Design & Drawing of Reinforced Concrete Structures	2017-2018	1 Semester
349	Civil Engineering	346719110	BE Students - Count 103	Construction Engineering	2017-2018	1 Semester
350	Civil Engineering	346719110	BE Students - Count 103	Project-Part II	2017-2018	1 Semester
351	Electrical Engineering	346729310	SE Students - Count 79	Conventional and Non-Conventional Power Generation	2017-2018	1 Semester
352	Electrical Engineering	346729310	SE Students - Count 79	Electrical & Electronics Measurement - lab	2017-2018	1 Semester

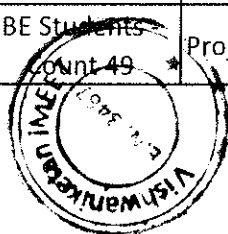


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Principal
Vishwaniketan's (i MBET)

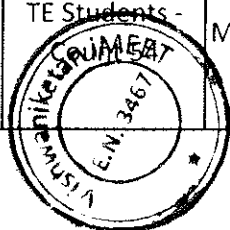
353	Electrical Engineering	346729310	SE Students - Count 79	Object Oriented Programming and Methodology Lab	2017-2018	1 Semester
354	Electrical Engineering	346729310	SE Students - Count 79	Electronics Lab - I	2017-2018	1 Semester
355	Electrical Engineering	346729310	SE Students - Count 79	Electrical Machine Lab - I	2017-2018	1 Semester
356	Electrical Engineering	346729310	SE Students - Count 79	Simulation Lab - I	2017-2018	1 Semester
357	Electrical Engineering	346729310	SE Students - Count 79	Electrical Machines Lab - II	2017-2018	1 Semester
358	Electrical Engineering	346729310	SE Students - Count 79	Electronics Lab - II	2017-2018	1 Semester
359	Electrical Engineering	346729310	SE Students - Count 79	Electrical Workshop	2017-2018	1 Semester
360	Electrical Engineering	346729310	TE Students - Count 79	Protection and Switchgear Engineering	2017-2018	1 Semester
361	Electrical Engineering	346729310	TE Students - Count 79	Power Electronics	2017-2018	1 Semester
362	Electrical Engineering	346729310	TE Students - Count 79	Power System Analysis	2017-2018	1 Semester
363	Electrical Engineering	346729310	TE Students - Count 79	Electrical Machines- III	2017-2018	1 Semester
364	Electrical Engineering	346729310	TE Students - Count 79	Utilization of Electrical Energy	2017-2018	1 Semester
365	Electrical Engineering	346729310	TE Students - Count 79	Control System - I	2017-2018	1 Semester
366	Electrical Engineering	346729310	TE Students - Count 79	Microcontroller and its Applications	2017-2018	1 Semester
367	Electrical Engineering	346729310	BE Students - Count 49	Power System Operation & Control	2017-2018	1 Semester
368	Electrical Engineering	346729310	BE Students - Count 49	High Voltage DC Transmission	2017-2018	1 Semester
369	Electrical Engineering	346729310	BE Students - Count 49	Electrical Machine Design	2017-2018	1 Semester
370	Electrical Engineering	346729310	BE Students - Count 49	Control System- II	2017-2018	1 Semester
371	Electrical Engineering	346729310	BE Students - Count 49	Project - I	2017-2018	1 Semester
372	Electrical Engineering	346729310	BE Students - Count 49	Design, Management & Auditing of Electrical Systems	2017-2018	1 Semester
373	Electrical Engineering	346729310	BE Students - Count 49	Drives & Control	2017-2018	1 Semester
374	Electrical Engineering	346729310	BE Students - Count 49	Power System Planning & Reliability	2017-2018	1 Semester
375	Electrical Engineering	346729310	BE Students - Count 49	Project - II	2017-2018	1 Semester

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Vishwaniketan's (I MBET)

376	Electronics and Telecommunication Engineering	346737210	SE Students - Count 33	Electronic Devices & Circuits I Lab	2017-2018	1 Semester
377	Electronics and Telecommunication Engineering	346737210	SE Students - Count 33	Digital System Design Lab	2017-2018	1 Semester
378	Electronics and Telecommunication Engineering	346737210	SE Students - Count 33	OOPM using JAVA Lab	2017-2018	1 Semester
379	Electronics and Telecommunication Engineering	346737210	SE Students - Count 33	Electronic Devices & Circuits II Lab	2017-2018	1 Semester
380	Electronics and Telecommunication Engineering	346737210	SE Students - Count 33	Linear Integrated Circuits - Lab	2017-2018	1 Semester
381	Electronics and Telecommunication Engineering	346737210	SE Students - Count 33	Principles of Communication Engineering Lab	2017-2018	1 Semester
382	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Microprocessors and Applications laboratory	2017-2018	1 Semester
383	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Communications Engineering Laboratory I	2017-2018	1 Semester
384	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Communications Engineering Laboratory II	2017-2018	1 Semester
385	Electronics and Telecommunication Engineering	346737210	TE Students -	Mini Project I	2017-2018	1 Semester



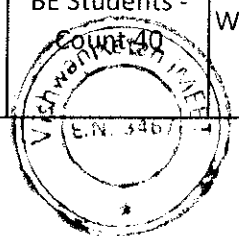
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Principal
Vishwaniketan's (I) MBET

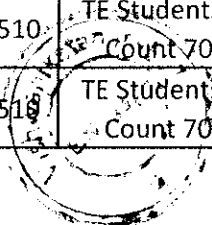
386	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Discrete Time Signal Processing Laboratory	2017-2018	1 Semester
387	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Communications Engineering Laboratory III	2017-2018	1 Semester
388	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Communications Engineering Laboratory IV	2017-2018	1 Semester
389	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Mini Project II	2017-2018	1 Semester
390	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Image and Video Processing Laboratory	2017-2018	1 Semester
391	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Advanced Communication Engineering Laboratory I	2017-2018	1 Semester
392	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Advanced Communication Engineering Laboratory II	2017-2018	1 Semester
393	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Elective	2017-2018	1 Semester
394	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Project Stage I	2017-2018	1 Semester
395	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Wireless Networks Laboratory	2017-2018	1 Semester

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Principal
Vishwaniketan's (I-MEET)

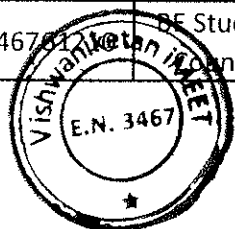
396	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Satellite Communication and Networks Laboratory	2017-2018	1 Semester
397	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Internet and Voice Communication Laboratory	2017-2018	1 Semester
398	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Elective Laboratory	2017-2018	1 Semester
399	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Project Stage II	2017-2018	1 Semester
400	Computer Engineering	346724510	SE Students - Count 70	Digital System Lab	2017-2018	1 Semester
401	Computer Engineering	346724510	SE Students - Count 70	Basic Electronics Lab	2017-2018	1 Semester
402	Computer Engineering	346724510	SE Students - Count 70	Data Structures Lab	2017-2018	1 Semester
403	Computer Engineering	346724510	SE Students - Count 70	OOPM (JAVA) Lab	2017-2018	1 Semester
404	Computer Engineering	346724510	SE Students - Count 70	Analysis of Algorithms Lab	2017-2018	1 Semester
405	Computer Engineering	346724510	SE Students - Count 70	Computer Graphics Lab	2017-2018	1 Semester
406	Computer Engineering	346724510	SE Students - Count 70	Processor Architecture Lab	2017-2018	1 Semester
407	Computer Engineering	346724510	SE Students - Count 70	Operating System Lab	2017-2018	1 Semester
408	Computer Engineering	346724510	SE Students - Count 70	Open Source Tech Lab	2017-2018	1 Semester
409	Computer Engineering	346724510	TE Students - Count 70	Microprocessors	2017-2018	1 Semester
410	Computer Engineering	346724510	TE Students - Count 70	Operating Systems	2017-2018	1 Semester
411	Computer Engineering	346724510	TE Students - Count 70	Structured and Object oriented Analysis and Design	2017-2018	1 Semester
412	Computer Engineering	346724510	TE Students - Count 70	Computer Networks	2017-2018	1 Semester
413	Computer Engineering	346724510	TE Students - Count 70	Web Technology Laboratory	2017-2018	1 Semester



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Principal
Vishwaniketan's II M.B.E.T.

414	Computer Engineering	346724510	TE Students - Count 70	Business Communications and Ethics	2017-2018	1 Semester
415	Computer Engineering	346724510	TE Students - Count 70	System Programming and Compiler Construction	2017-2018	1 Semester
416	Computer Engineering	346724510	TE Students - Count 70	Software Engineering	2017-2018	1 Semester
417	Computer Engineering	346724510	TE Students - Count 70	Distributed Databases	2017-2018	1 Semester
418	Computer Engineering	346724510	TE Students - Count 70	Mobile Communication and Computing	2017-2018	1 Semester
419	Computer Engineering	346724510	TE Students - Count 70	Network Programming Laboratory	2017-2018	1 Semester
420	Computer Engineering	346724510	BE Students - Count 44	Digital Signal Processing	2017-2018	1 Semester
421	Computer Engineering	346724510	BE Students - Count 44	Cryptography and System Security	2017-2018	1 Semester
422	Computer Engineering	346724510	BE Students - Count 44	Artificial Intelligence	2017-2018	1 Semester
423	Computer Engineering	346724510	BE Students - Count 44	Elective -II	2017-2018	1 Semester
424	Computer Engineering	346724510	BE Students - Count 44	Project - I	2017-2018	1 Semester
425	Computer Engineering	346724510	BE Students - Count 44	Network Threats and Attacks Laboratory	2017-2018	1 Semester
426	Computer Engineering	346724510	BE Students - Count 44	Data Warehouse and Mining	2017-2018	1 Semester
427	Computer Engineering	346724510	BE Students - Count 44	Human Machine Interaction	2017-2018	1 Semester
428	Computer Engineering	346724510	BE Students - Count 44	Parallel and Distributed Systems	2017-2018	1 Semester
429	Computer Engineering	346724510	BE Students - Count 44	Elective -III	2017-2018	1 Semester
430	Computer Engineering	346724510	BE Students - Count 44	Cloud Computing Laboratory	2017-2018	1 Semester
431	Computer Engineering	346724510	BE Students - Count 44	Project-II	2017-2018	1 Semester
432	Mechanical Engineering	346761210	SE Students - Count 154	Fluid Mechanics	2016-2017	1 Semester
433	Mechanical Engineering	346761210	SE Students - Count 154	Theory of Machines – I	2016-2017	1 Semester
434	Mechanical Engineering	346761210	TE Students - Count 147	Thermal and Fluid Power Engineering	2016-2017	1 Semester
435	Mechanical Engineering	346761210	TE Students - Count 147	Mechatronics	2016-2017	1 Semester
436	Mechanical Engineering	346761210	TE Students - Count 147	Finite Element Analysis	2016-2017	1 Semester
437	Mechanical Engineering	346761210	BE Students - Count 102	Machine Design- II	2016-2017	1 Semester

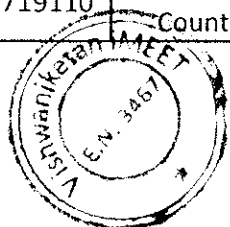


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Principal
Vishwaniketan's (i MEET)

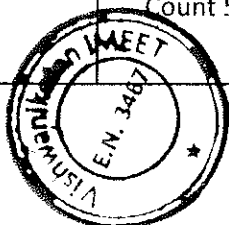
438	Mechanical Engineering	346761210	BE Students - Count 102	CAD/CAM/CAE	2016-2017	1 Semester
439	Mechanical Engineering	346761210	BE Students - Count 102	Power Plant Engineering	2016-2017	1 Semester
440	Mechanical Engineering	346761210	BE Students - Count 102	Project- I	2016-2017	1 Semester
441	Mechanical Engineering	346761210	BE Students - Count 102	Design of Mechanical Systems	2016-2017	1 Semester
442	Mechanical Engineering	346761210	BE Students - Count 102	Industrial Engineering and Management	2016-2017	1 Semester
443	Mechanical Engineering	346761210	BE Students - Count 102	Refrigeration and Air Conditioning	2016-2017	1 Semester
444	Mechanical Engineering	346761210	BE Students - Count 102	Renewable Energy Sources	2016-2017	1 Semester
445	Mechanical Engineering	346761210	BE Students - Count 102	Automobile Engineering	2016-2017	1 Semester
446	Mechanical Engineering	346761210	BE Students - Count 102	Project- II	2016-2017	1 Semester
447	Civil Engineering	346719110	SE Students - Count 74	Surveying-I	2016-2017	1 Semester
448	Civil Engineering	346719110	SE Students - Count 74	Engineering Geology	2016-2017	1 Semester
449	Civil Engineering	346719110	SE Students - Count 74	Surveying -II	2016-2017	1 Semester
450	Civil Engineering	346719110	SE Students - Count 74	Building Design & Drawing-I	2016-2017	1 Semester
451	Civil Engineering	346719110	SE Students - Count 74	Concrete Technology	2016-2017	1 Semester
452	Civil Engineering	346719110	TE Students - Count 107	Building Design & Drawing-II	2016-2017	1 Semester
453	Civil Engineering	346719110	TE Students - Count 107	Applied Hydraulics -I	2016-2017	1 Semester
454	Civil Engineering	346719110	TE Students - Count 107	Design And Drawing Of Steel Structures	2016-2017	1 Semester
455	Civil Engineering	346719110	TE Students - Count 107	Environmental Engg-I	2016-2017	1 Semester
456	Civil Engineering	346719110	BE Students - Count 62	Environmental Engineering -II	2016-2017	1 Semester
457	Civil Engineering	346719110	BE Students - Count 62	Project- part I	2016-2017	1 Semester
458	Civil Engineering	346719110	BE Students - Count 62	Design & Drawing of Reinforced Concrete Structures	2016-2017	1 Semester
459	Civil Engineering	346719110	BE Students - Count 62	Construction Engineering	2016-2017	1 Semester
460	Civil Engineering	346719110	BE Students - Count 62	Project-Part II	2016-2017	1 Semester

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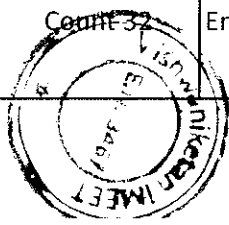
461	Electrical Engineering	346729310	SE Students - Count 80	Conventional and Non-Conventional Power Generation	2016-2017	1 Semester
462	Electrical Engineering	346729310	SE Students - Count 80	Elements of Power System	2016-2017	1 Semester
463	Electrical Engineering	346729310	TE Students - Count 49	Protection and Switchgear Engineering	2016-2017	1 Semester
464	Electrical Engineering	346729310	TE Students - Count 44	Utilization of Electrical Energy	2016-2017	1 Semester
465	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Analog Electronics laboratory	2016-2017	1 Semester
466	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Digital Electronics Laboratory	2016-2017	1 Semester
467	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Circuits And Measurements Laboratory	2016-2017	1 Semester
468	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Object oriented Programming methodology Laboratory	2016-2017	1 Semester
469	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Analog Electronics II laboratory	2016-2017	1 Semester
470	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Microprocessors and Peripherals laboratory	2016-2017	1 Semester
471	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Software Simulation laboratory	2016-2017	1 Semester
472	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Microprocessors and Applications laboratory	2016-2017	1 Semester



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473	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Communications Engineering Laboratory I	2016-2017	1 Semester
474	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Communications Engineering Laboratory II	2016-2017	1 Semester
475	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Mini Project I	2016-2017	1 Semester
476	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Discrete Time Signal Processing Laboratory	2016-2017	1 Semester
477	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Communications Engineering Laboratory III	2016-2017	1 Semester
478	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Communications Engineering Laboratory IV	2016-2017	1 Semester
479	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Mini Project II	2016-2017	1 Semester
480	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Image and Video Processing Laboratory	2016-2017	1 Semester
481	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Advanced Communication Engineering Laboratory I	2016-2017	1 Semester
482	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Advanced Communication Engineering Laboratory II	2016-2017	1 Semester

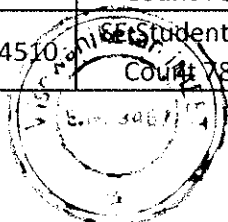


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2016-2017
JKP

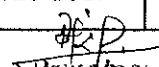
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483	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Elective	2016-2017	1 Semester
484	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Project Stage I	2016-2017	1 Semester
485	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Wireless Networks Laboratory	2016-2017	1 Semester
486	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Satellite Communication and Networks Laboratory	2016-2017	1 Semester
487	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Internet and Voice Communication Laboratory	2016-2017	1 Semester
488	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Elective Laboratory	2016-2017	1 Semester
489	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Project Stage II	2016-2017	1 Semester
490	Computer Engineering	346724510	SE Students - Count 78	Objec Oriented Programming Methodology	2016-2017	1 Semester
491	Computer Engineering	346724510	SE Students - Count 78	Data Structures	2016-2017	1 Semester
492	Computer Engineering	346724510	SE Students - Count 78	Digital Logic Design and Analysis	2016-2017	1 Semester
493	Computer Engineering	346724510	SE Students - Count 78	Electronic Circuits and Communication Fundamentals	2016-2017	1 Semester
494	Computer Engineering	346724510	SE Students - Count 78	Analysis of Algorithms	2016-2017	1 Semester
495	Computer Engineering	346724510	SE Students - Count 78	Computer Organization and Architecture	2016-2017	1 Semester



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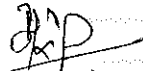
496	Computer Engineering	346724510	SE Students - Count 78	Database Management Systems	2016-2017	1 Semester
497	Computer Engineering	346724510	SE Students - Count 78	Computer Graphics	2016-2017	1 Semester
498	Computer Engineering	346724510	TE Students - Count 61	Microprocessors	2016-2017	1 Semester
499	Computer Engineering	346724510	TE Students - Count 61	Operating Systems	2016-2017	1 Semester
500	Computer Engineering	346724510	TE Students - Count 61	Structured and Object oriented Analysis and Design	2016-2017	1 Semester
501	Computer Engineering	346724510	TE Students - Count 61	Computer Networks	2016-2017	1 Semester
502	Computer Engineering	346724510	TE Students - Count 61	Web Technology Laboratory	2016-2017	1 Semester
503	Computer Engineering	346724510	TE Students - Count 61	Business Communications and Ethics	2016-2017	1 Semester
504	Computer Engineering	346724510	TE Students - Count 61	System Programming and Compiler Construction	2016-2017	1 Semester
505	Computer Engineering	346724510	TE Students - Count 61	Software Engineering	2016-2017	1 Semester
506	Computer Engineering	346724510	TE Students - Count 61	Distributed Databases	2016-2017	1 Semester
507	Computer Engineering	346724510	TE Students - Count 61	Mobile Communication and Computing	2016-2017	1 Semester
508	Computer Engineering	346724510	TE Students - Count 61	Network Programming Laboratory	2016-2017	1 Semester
509	Computer Engineering	346724510	BE Students - Count 32	Digital Signal Processing	2016-2017	1 Semester
510	Computer Engineering	346724510	BE Students - Count 32	Cryptography and System Security	2016-2017	1 Semester
511	Computer Engineering	346724510	BE Students - Count 32	Artificial Intelligence	2016-2017	1 Semester
512	Computer Engineering	346724510	BE Students - Count 32	Elective -II	2016-2017	1 Semester
513	Computer Engineering	346724510	BE Students - Count 32	Project - I	2016-2017	1 Semester
514	Computer Engineering	346724510	BE Students - Count 32	Network Threats and Attacks Laboratory	2016-2017	1 Semester
515	Computer Engineering	346724510	BE Students - Count 32	Data Warehouse and Mining	2016-2017	1 Semester
516	Computer Engineering	346724510	BE Students - Count 32	Human Machine Interaction	2016-2017	1 Semester
517	Computer Engineering	346724510	BE Students - Count 32	Parallel and Distributed Systems	2016-2017	1 Semester
518	Computer Engineering	346724510	BE Students - Count 32	Elective -III	2016-2017	1 Semester
519	Computer Engineering	346724510	BE Students - Count 32	Cloud Computing Laboratory	2016-2017	1 Semester


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520	Computer Engineering	346724510	BE Students - Count 32	Project-II	2016-2017	1 Semester
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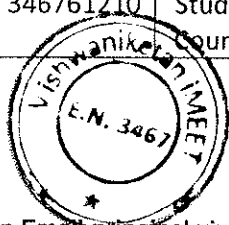
Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

Courses that include experiential learning through project work/field work/internship during last five years

Sr.No	Program name	Program code	No of the student studied course	Name of the Course that include experiential learning through project work/field work/internship	Year of offering	Duration
1	Mechanical Engineering	346761210	SE Students - Count 33	Engineering Mathematics-III	2020- 2021	1 Semester
2	Mechanical Engineering	346761210	SE Students - Count 33	Mini Project - 1A	2020- 2021	1 Semester
3	Mechanical Engineering	346761210	SE Students - Count 33	Engineering Mathematics-IV	2020- 2021	1 Semester
4	Mechanical Engineering	346761210	SE Students - Count 33	Kinematics of Machinery	2020- 2021	1 Semester
5	Mechanical Engineering	346761210	SE Students - Count 33	Mini Project - 1B	2020- 2021	1 Semester
6	Mechanical Engineering	346761210	TE Students - Count 158	Mechanical Measurement and Control	2020- 2021	1 Semester
7	Mechanical Engineering	346761210	TE Students - Count 158	Finite Element Analysis	2020- 2021	1 Semester
8	Mechanical Engineering	346761210	TE Students - Count 158	Refrigeration and Air Conditioning	2020- 2021	1 Semester
9	Mechanical Engineering	346761210	BE Students - Count 161	Machine Design -II	2020- 2021	1 Semester
10	Mechanical Engineering	346761210	BE Students - Count 161	Machine Design -I	2020- 2021	1 Semester



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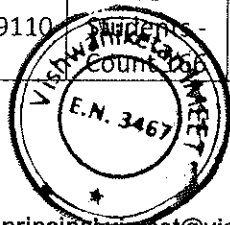
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President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

11	Mechanical Engineering	346761210	BE Students - Count 161	Project I	2020- 2021	1 Semester
12	Mechanical Engineering	346761210	BE Students - Count 161	Design of Mechanical Systems	2020- 2021	1 Semester
13	Mechanical Engineering	346761210	BE Students - Count 161	Power Engineering	2020- 2021	1 Semester
14	Mechanical Engineering	346761210	BE Students - Count 161	Project- II	2020- 2021	1 Semester
15	Civil Engineering	346719110	SE Students - Count 56	Engineering Geology	2020- 2021	1 Semester
16	Civil Engineering	346719110	SE Students - Count 56	Skill Base Lab Course- I	2020- 2021	1 Semester
17	Civil Engineering	346719110	SE Students - Count 56	Mini Project- 1 A	2020- 2021	1 Semester
18	Civil Engineering	346719110	SE Students - Count 56	Surveying	2020- 2021	1 Semester
19	Civil Engineering	346719110	SE Students - Count 56	Skill Base Lab Cours - II	2020- 2021	1 Semester
20	Civil Engineering	346719110	SE Students - Count 56	Mini Project- 1 B	2020- 2021	1 Semester
21	Civil Engineering	346719110	TE Students - Count 166	Applied Hydraulics	2020- 2021	1 Semester
22	Civil Engineering	346719110	TE Students - Count 166	Environmental Engineering - I	2020- 2021	1 Semester
23	Civil Engineering	346719110	TE Students - Count 166	Design & Drawing of Steel Structures	2020- 2021	1 Semester



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President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

24	Civil Engineering	346719110	TE Students - Count 166	Environmental Engineering - II	2020- 2021	1 Semester
25	Civil Engineering	346719110	BE Students - Count 183	Quantity Survey Estimation and Valuation	2020- 2021	1 Semester
26	Civil Engineering	346719110	BE Students - Count 183	Project - Part I	2020- 2021	1 Semester
27	Civil Engineering	346719110	BE Students - Count 183	Design And Drawing of Rainforced Concrete Structures	2020- 2021	1 Semester
28	Civil Engineering	346719110	BE Students - Count 183	Project - Part II	2020- 2021	1 Semester
29	Electrical Engineering	346729310	SE Students - Count 50	Electrical Machines & Measurements lab	2020- 2021	1 Semester
30	Electrical Engineering	346729310	SE Students - Count 50	Electronics Lab-I	2020- 2021	1 Semester
31	Electrical Engineering	346729310	SE Students - Count 50	Simulation Lab-I	2020- 2021	1 Semester
32	Electrical Engineering	346729310	SE Students - Count 50	SBL-I: Applied Electrical Engineering Lab	2020- 2021	1 Semester
33	Electrical Engineering	346729310	SE Students - Count 50	Mini Project-IA	2020- 2021	1 Semester
34	Electrical Engineering	346729310	SE Students - Count 50	Electrical AC machines Lab-I	2020- 2021	1 Semester
35	Electrical Engineering	346729310	SE Students - Count 50	Python Programming lab	2020- 2021	1 Semester
36	Electrical Engineering	346729310	SE Students - Count 50	Electronics Lab II	2020- 2021	1 Semester



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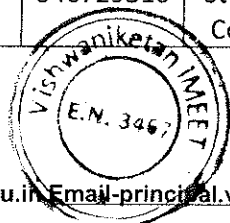
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President

Mr. Sunil Bangar
Secretary

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Principal

37	Electrical Engineering	346729310	SE Students - Count 50	SBL-II: PCB Design And Fabrication lab	2020- 2021	1 Semester
38	Electrical Engineering	346729310	SE Students - Count 50	Mini Project-1B	2020- 2021	1 Semester
39	Electrical Engineering	346729310	TE Students - Count 73	Control System Lab	2020- 2021	1 Semester
40	Electrical Engineering	346729310	TE Students - Count 73	Electrical Machines Lab - III	2020- 2021	1 Semester
41	Electrical Engineering	346729310	TE Students - Count 73	Power Electronics Lab	2020- 2021	1 Semester
42	Electrical Engineering	346729310	TE Students - Count 73	Electrical Protection Lab	2020- 2021	1 Semester
43	Electrical Engineering	346729310	TE Students - Count 73	Electrical Machines Lab - IV	2020- 2021	1 Semester
44	Electrical Engineering	346729310	TE Students - Count 73	Microcontroller Lab	2020- 2021	1 Semester
45	Electrical Engineering	346729310	TE Students - Count 73	Simulation Lab-II	2020- 2021	1 Semester
46	Electrical Engineering	346729310	BE Students - Count 80	Simulation Lab - III	2020- 2021	1 Semester
47	Electrical Engineering	346729310	BE Students - Count 80	Drives and Control Lab	2020- 2021	1 Semester
48	Electrical Engineering	346729310	BE Students - Count 80	Project- I	2020- 2021	1 Semester
49	Electrical Engineering	346729310	BE Students - Count 80	Simulation Lab - IV	2020- 2021	1 Semester



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Principal

50	Electrical Engineering	346729310	BE Students - Count 80	Electrical System Design Lab	2020- 2021	1 Semester
51	Electrical Engineering	346729310	BE Students - Count 80	Project - II	2020- 2021	1 Semester
52	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Electronic Devices & Circuits Lab	2020- 2021	1 Semester
53	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Digital System Design Lab	2020- 2021	1 Semester
54	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Electronic Instrumentation & Control Systems Lab	2020- 2021	1 Semester
55	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Skill Lab: C++ and Java Programming	2020- 2021	1 Semester
56	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Mini Project 1 A	2020- 2021	1 Semester
57	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Microcontrollers lab	2020- 2021	1 Semester



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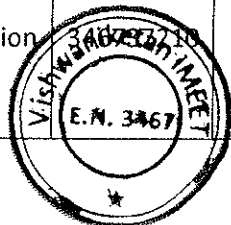
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Principal

58	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Linear Intrgrated Circuits Lab	2020-2021	1 Semester
59	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Principles of Communication Engineering Lab	2020-2021	1 Semester
60	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Skill Lab: Python Programming	2020-2021	1 Semester
61	Electronics and Telecommunication Engineering	346737210	SE Students - Count 24	Mini Project 1B	2020-2021	1 Semester
62	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	microprocessor & Peripherals Interfacing lab	2020-2021	1 Semester
63	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Digital Communication lab	2020-2021	1 Semester
64	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Business Communication & Ethics Lab	2020-2021	1 Semester



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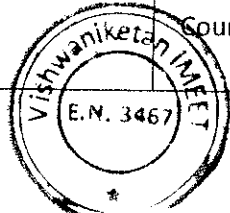
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65	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Open Source Technology For Communication Lab	2020-2021	1 Semester
66	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Department level Optional lab-I	2020-2021	1 Semester
67	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Microcontrollers & Applications Lab	2020-2021	1 Semester
68	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Computer Communication Networks	2020-2021	1 Semester
69	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Antenna & Radio Wave Propagation	2020-2021	1 Semester
70	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Image Processing and machine Vision Lab	2020-2021	1 Semester
71	Electronics and Telecommunication Engineering	346737210	TE Students - Count 38	Department Level Optional lab II	2020-2021	1 Semester



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72	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Microwave Engineering Lab	2020-2021	1 Semester
73	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Mobile Communication Lab	2020-2021	1 Semester
74	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Optical Communication	2020-2021	1 Semester
75	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Department Level Optional Lab III	2020-2021	1 Semester
76	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Project -I	2020-2021	1 Semester
77	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	RF Design lab	2020-2021	1 Semester
78	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Wireless Networks lab	2020-2021	1 Semester



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President

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Principal

79	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Department Level Optional lab IV	2020-2021	1 Semester
80	Electronics and Telecommunication Engineering	346737210	BE Students - Count 29	Project-II	2020-2021	1 Semester
81	Computer Engineering	346724510	SE Students - Count 48	Data Structure Lab	2020-2021	1 Semester
82	Computer Engineering	346724510	SE Students - Count 48	Digital Logic & Computer Architecture Lab	2020-2021	1 Semester
83	Computer Engineering	346724510	SE Students - Count 48	Computer Graphics Lab	2020-2021	1 Semester
84	Computer Engineering	346724510	SE Students - Count 48	Skill Base Lab Course: Object Oriented Programming with Java	2020-2021	1 Semester
85	Computer Engineering	346724510	SE Students - Count 48	Mini Project 1 - A	2020-2021	1 Semester
86	Computer Engineering	346724510	SE Students - Count 48	Analysis of Algorithm Lab	2020-2021	1 Semester
87	Computer Engineering	346724510	SE Students - Count 48	Database management System Lab	2020-2021	1 Semester
88	Computer Engineering	346724510	SE Students - Count 48	Operating System Lab	2020-2021	1 Semester
89	Computer Engineering	346724510	SE Students - Count 75	Microprocessors Lab	2020-2021	1 Semester

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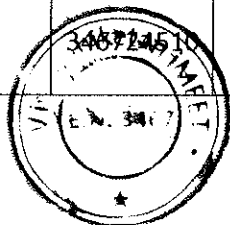
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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

90	Computer Engineering	346724510	SE Students - Count 75	Skill Base Lab Course: Python Programming	2020- 2021	1 Semester
91	Computer Engineering	346724510	SE Students - Count 75	Mini Project 1 - B	2020- 2021	1 Semester
92	Computer Engineering	346724510	TE Students - Count 75	Microprocessor Lab	2020- 2021	1 Semester
93	Computer Engineering	346724510	TE Students - Count 75	Computer Network Lab	2020- 2021	1 Semester
94	Computer Engineering	346724510	TE Students - Count 75	Database & Information System Lab	2020- 2021	1 Semester
95	Computer Engineering	346724510	TE Students - Count 75	Web Design Lab	2020- 2021	1 Semester
96	Computer Engineering	346724510	TE Students - Count 75	Business Comm. & Ethics	2020- 2021	1 Semester
97	Computer Engineering	346724510	TE Students - Count 75	Software Engineering Lab	2020- 2021	1 Semester
98	Computer Engineering	346724510	TE Students - Count 75	System Software Lab	2020- 2021	1 Semester
99	Computer Engineering	346724510	TE Students - Count 75	Data Warehousing & Mining Lab	2020- 2021	1 Semester
100	Computer Engineering	346724510	TE Students - Count 75	System Security Lab	2020- 2021	1 Semester
101	Computer Engineering	346724510	TE Students - Count 75	Mini Project	2020- 2021	1 Semester
102	Computer Engineering	346724510	BE Students - Count 69	Digital Sign Image Processing Lab	2020- 2021	1 Semester



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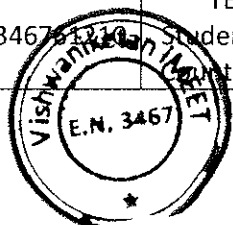
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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

103	Computer Engineering	346724510	BE Students - Count 69	Mobile App. Development Tech. Lab	2020-2021	1 Semester
104	Computer Engineering	346724510	BE Students - Count 69	Artificial Intelligence & Soft Computing Lab	2020-2021	1 Semester
105	Computer Engineering	346724510	BE Students - Count 69	Computational Lab- I	2020-2021	1 Semester
106	Computer Engineering	346724510	BE Students - Count 69	Major Prjct- I	2020-2021	1 Semester
107	Computer Engineering	346724510	BE Students - Count 69	Human Machine Intearaction Lab	2020-2021	1 Semester
108	Computer Engineering	346724510	BE Students - Count 69	Distributed Computing Lab	2020-2021	1 Semester
109	Computer Engineering	346724510	BE Students - Count 69	Cloud Computing Lab	2020-2021	1 Semester
110	Computer Engineering	346724510	BE Students - Count 69	Computational Lab- II	2020-2021	1 Semester
111	Computer Engineering	346724510	BE Students - Count 69	Major Project- II	2020-2021	1 Semester
112	Mechanical Engineering	346761210	SE Students - Count 135	Fluid Mechanics	2019-2020	1 Semester
113	Mechanical Engineering	346761210	SE Students - Count 135	Kinematics of Machinery	2019-2020	1 Semester
114	Mechanical Engineering	346761210	TE Students - Count 145	Mechanical Measurement and Control	2019-2020	1 Semester
115	Mechanical Engineering	346761210	TE Students - Count 145	Finite Element Analysis	2019-2020	1 Semester



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President


Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

116	Mechanical Engineering	346761210	TE Students - Count 145	Refrigeration and Air Conditioning	2019- 2020	1 Semester
117	Mechanical Engineering	346761210	BE Students - Count 134	Machine Design -II	2019- 2020	1 Semester
118	Mechanical Engineering	346761210	BE Students - Count 134	CAD/CAM/CAE	2019- 2020	1 Semester
119	Mechanical Engineering	346761210	BE Students - Count 134	Project I	2019- 2020	1 Semester
120	Mechanical Engineering	346761210	BE Students - Count 134	Design of Mechanical Systems	2019- 2020	1 Semester
121	Mechanical Engineering	346761210	BE Students - Count 134	Power Engineering	2019- 2020	1 Semester
122	Mechanical Engineering	346761210	BE Students - Count 134	Project- II	2019- 2020	1 Semester
123	Civil Engineering	346719110	SE Students - Count 148	Surveying- I	2019- 2020	1 Semester
124	Civil Engineering	346719110	SE Students - Count 148	Engineering Geology	2019- 2020	1 Semester
125	Civil Engineering	346719110	SE Students - Count 148	Surveying- II	2019- 2020	1 Semester
126	Civil Engineering	346719110	SE Students - Count 148	Building Design & Drawing	2019- 2020	1 Semester
127	Civil Engineering	346719110	TE Students - Count 132	Applied Hydraulics	2019- 2020	1 Semester
128	Civil Engineering	346719110	TE Students - Count 132	Environmental Engineering	2019- 2020	1 Semester



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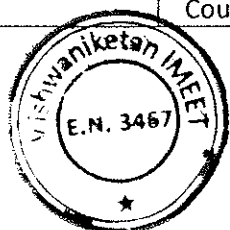
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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

129	Civil Engineering	346719110	TE Students - Count 132	Design & Drawing of Steel Structures	2019- 2020	1 Semester
130	Civil Engineering	346719110	TE Students - Count 132	Transportation Engineering- II	2019- 2020	1 Semester
131	Civil Engineering	346719110	TE Students - Count 132	Environmental Engineering - II	2019- 2020	1 Semester
132	Civil Engineering	346719110	BE Students - Count 128	Quantity Survey Estimation and Valuation	2019- 2020	1 Semester
133	Civil Engineering	346719110	BE Students - Count 128	Water Resource Engineering- II	2019- 2020	1 Semester
134	Civil Engineering	346719110	BE Students - Count 128	Project - Part I	2019- 2020	1 Semester
135	Civil Engineering	346719110	BE Students - Count 128	Design And Drawing of Rainforced Concrate Structures	2019- 2020	1 Semester
136	Civil Engineering	346719110	BE Students - Count 128	Project - Part II	2019- 2020	1 Semester
137	Electrical Engineering	346729310	SE Students - Count 16	Conventional and Non- Conventional Power Genaration	2019- 2020	1 Semester
138	Electrical Engineering	346729310	SE Students - Count 16	Electrical & Electronics Measurement - lab	2019- 2020	1 Semester
139	Electrical Engineering	346729310	SE Students - Count 16	Object Oriented Programing and Methidology Lab	2019- 2020	1 Semester
140	Electrical Engineering	346729310	SE Students - Count 16	Electronics Lab - I	2019- 2020	1 Semester



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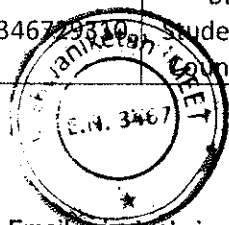
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Mr. Madhu Bathija
President

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Secretary

Dr. B. R. Patil
Principal

141	Electrical Engineering	346729310	SE Students - Count 16	Electrical Machine Lab - I	2019- 2020	1 Semester
142	Electrical Engineering	346729310	SE Students - Count 16	Simulation Lab - I	2019- 2020	1 Semester
143	Electrical Engineering	346729310	SE Students - Count 16	Electrical Machines Lab - II	2019- 2020	1 Semester
144	Electrical Engineering	346729310	SE Students - Count 16	Electronics Lab - II	2019- 2020	1 Semester
145	Electrical Engineering	346729310	SE Students - Count 16	Electrical Workshop	2019- 2020	1 Semester
146	Electrical Engineering	346729310	TE Students - Count 15	Control System Lab	2019- 2020	1 Semester
147	Electrical Engineering	346729310	TE Students - Count 15	Electrical Machines Lab - III	2019- 2020	1 Semester
148	Electrical Engineering	346729310	TE Students - Count 15	Power Electronics Lab	2019- 2020	1 Semester
149	Electrical Engineering	346729310	TE Students - Count 15	Electrical Protection Lab	2019- 2020	1 Semester
150	Electrical Engineering	346729310	TE Students - Count 15	Electrical Machines Lab - IV	2019- 2020	1 Semester
151	Electrical Engineering	346729310	TE Students - Count 15	Microcontroller Lab	2019- 2020	1 Semester
152	Electrical Engineering	346729310	TE Students - Count 15	Simulation Lab-II	2019- 2020	1 Semester
153	Electrical Engineering	346729310	BE Students - Count 65	High Voltage Direct Current Transmission	2019- 2020	1 Semester



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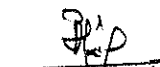
Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

154	Electrical Engineering	346729310	BE Students - Count 65	Simulation Lab - III	2019- 2020	1 Semester
155	Electrical Engineering	346729310	BE Students - Count 65	Drives and Control Lab	2019- 2020	1 Semester
156	Electrical Engineering	346729310	BE Students - Count 65	Project- I	2019- 2020	1 Semester
157	Electrical Engineering	346729310	BE Students - Count 65	Simulation Lab - IV	2019- 2020	1 Semester
158	Electrical Engineering	346729310	BE Students - Count 65	Electrical System Design Lab	2019- 2020	1 Semester
159	Electrical Engineering	346729310	BE Students - Count 65	Project - II	2019- 2020	1 Semester
160	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Electronic Devices & Circuits I Lab	2019- 2020	1 Semester
161	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Digital System Design Lab	2019- 2020	1 Semester
162	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	OOPM using JAVA Lab	2019- 2020	1 Semester



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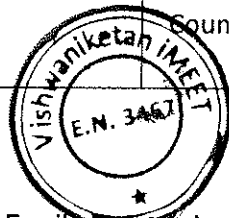
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President

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Dr. B. R. Patil
Principal

163	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Electronic Devices & Circuits II Lab	2019-2020	1 Semester
164	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Linear Integrated Circuits - Lab	2019-2020	1 Semester
165	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Principles of Communication Engineering Lab	2019-2020	1 Semester
166	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	microprocessor & Peripherals Interfacing lab	2019-2020	1 Semester
167	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Digital Communication lab	2019-2020	1 Semester
168	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Business Communication & Ethics Lab	2019-2020	1 Semester
169	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Open Source Technology for Communication Lab	2019-2020	1 Semester



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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

170	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Department level Optional lab-I	2019-2020	1 Semester
171	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Microcontrollers & Applications Lab	2019-2020	1 Semester
172	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Computer Communication Networks	2019-2020	1 Semester
173	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Antenna & Radio Wave Propagation	2019-2020	1 Semester
174	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Image Processing and machine Vision Lab	2019-2020	1 Semester
175	Electronics and Telecommunication Engineering	346737210	TE Students - Count 27	Department Level Optional lab II	2019-2020	1 Semester
176	Electronics and Telecommunication Engineering	346737210	BE Students - Count 38	Microwave Engineering Lab	2019-2020	1 Semester



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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

177	Electronics and Telecommunication Engineering	346737210	BE Students - Count 38	Mobile Communication Lab	2019-2020	1 Semester
178	Electronics and Telecommunication Engineering	346737210	BE Students - Count 38	Optical Communication	2019-2020	1 Semester
179	Electronics and Telecommunication Engineering	346737210	BE Students - Count38	Department Level Optional Lab III	2019-2020	1 Semester
180	Electronics and Telecommunication Engineering	346737210	BE Students - Count38	Project -I	2019-2020	1 Semester
181	Electronics and Telecommunication Engineering	346737210	BE Students - Count38	RF Design lab	2019-2020	1 Semester
182	Electronics and Telecommunication Engineering	346737210	BE Students - Count38	Wireless Networks lab	2019-2020	1 Semester
183	Electronics and Telecommunication Engineering	346737210	BE Students - Count38	Department Level Optional lab IV	2019-2020	1 Semester



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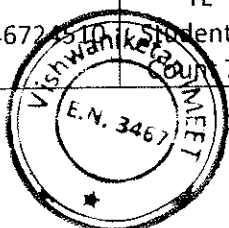
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President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

184	Electronics and Telecommunication Engineering	346737210	BE Students - Count 38	Project-II	2019- 2020	1 Semester
185	Computer Engineering	346724510	SE Students - Count 64	Digital System Lab	2019- 2020	1 Semester
186	Computer Engineering	346724510	SE Students - Count 64	Basic Electronics Lab	2019- 2020	1 Semester
187	Computer Engineering	346724510	SE Students - Count 64	Data Structures Lab	2019- 2020	1 Semester
188	Computer Engineering	346724510	SE Students - Count 64	OOPM (JAVA) Lab	2019- 2020	1 Semester
189	Computer Engineering	346724510	SE Students - Count 64	Analysis of Algorithms Lab	2019- 2020	1 Semester
190	Computer Engineering	346724510	SE Students - Count 64	Computer Graphics Lab	2019- 2020	1 Semester
191	Computer Engineering	346724510	SE Students - Count 64	Processor Architecture Lab	2019- 2020	1 Semester
192	Computer Engineering	346724510	SE Students - Count 64	Operating System Lab	2019- 2020	1 Semester
193	Computer Engineering	346724510	SE Students - Count 64	Open Source Tech Lab	2019- 2020	1 Semester
194	Computer Engineering	346724510	TE Students - Count 71	Microprocessor Lab	2019- 2020	1 Semester
195	Computer Engineering	346724510	TE Students - Count 71	Computer Network Lab	2019- 2020	1 Semester



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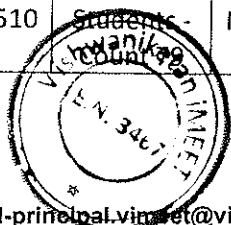
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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

196	Computer Engineering	346724510	TE Students - Count 71	Database & Information System Lab	2019-2020	1 Semester
197	Computer Engineering	346724510	TE Students - Count 71	Web Design Lab	2019-2020	1 Semester
198	Computer Engineering	346724510	TE Students - Count 71	Business Comm. & Ethics	2019-2020	1 Semester
199	Computer Engineering	346724510	TE Students - Count 71	Software Engineering Lab	2019-2020	1 Semester
200	Computer Engineering	346724510	TE Students - Count 71	System Software Lab	2019-2020	1 Semester
201	Computer Engineering	346724510	TE Students - Count 71	Data Warehousing & Mining Lab	2019-2020	1 Semester
202	Computer Engineering	346724510	TE Students - Count 71	System Security Lab	2019-2020	1 Semester
203	Computer Engineering	346724510	TE Students - Count 71	Mini Project	2019-2020	1 Semester
204	Computer Engineering	346724510	BE Students - Count 79	Digital Signal & Image Processing Lab	2019-2020	1 Semester
205	Computer Engineering	346724510	BE Students - Count 79	Mobile App. Development Tech. Lab	2019-2020	1 Semester
206	Computer Engineering	346724510	BE Students - Count 79	Artificial Intelligence & Soft Computing Lab	2019-2020	1 Semester
207	Computer Engineering	346724510	BE Students - Count 79	Computational Lab- I	2019-2020	1 Semester
208	Computer Engineering	346724510	BE Students - Count 79	Major Project	2019-2020	1 Semester



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Dr. B. R. Patil
Principal



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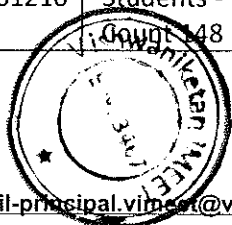
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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

209	Computer Engineering	346724510	BE Students - Count 79	Human Machine Intearaction Lab	2019- 2020	1 Semester
210	Computer Engineering	346724510	BE Students - Count 79	Distributed Computing Lab	2019- 2020	1 Semester
211	Computer Engineering	346724510	BE Students - Count 79	Cloud Computing Lab	2019- 2020	1 Semester
212	Computer Engineering	346724510	BE Students - Count 79	Computational Lab- II	2019- 2020	1 Semester
213	Computer Engineering	346724510	BE Students - Count 79	PROJECT-II	2019- 2020	1 Semester
214	Mechanical Engineering	346761210	SE Students - Count 136	Fluid Mechanics	2018- 2019	1 Semester
215	Mechanical Engineering	346761210	TE Students - Count 143	Mechanical Measurement and Control	2018- 2019	1 Semester
216	Mechanical Engineering	346761210	TE Students - Count 143	Finite Element Analysis	2018- 2019	1 Semester
217	Mechanical Engineering	346761210	TE Students - Count 143	Refrigeration and Air Conditioning	2018- 2019	1 Semester
218	Mechanical Engineering	346761210	BE Students - Count 148	Machine Design- II	2018- 2019	1 Semester
219	Mechanical Engineering	346761210	BE Students - Count 148	CAD/CAM/CAE	2018- 2019	1 Semester
220	Mechanical Engineering	346761210	BE Students - Count 148	Power Plant Engineering	2018- 2019	1 Semester
221	Mechanical Engineering	346761210	BE Students - Count 148	Project- I	2018- 2019	1 Semester



J.R.P.
Principal

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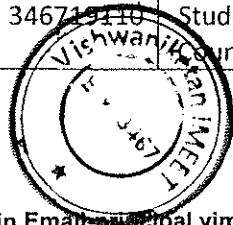
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President**Mr. Sunil Bangar**
Secretary**Dr. B. R. Patil**
Principal

222	Mechanical Engineering	346761210	BE Students - Count 148	Design of Mechanical Systems	2018- 2019	1 Semester
223	Mechanical Engineering	346761210	BE Students - Count 148	Industrial Engineering and Management	2018- 2019	1 Semester
224	Mechanical Engineering	346761210	BE Students - Count 148	Refrigeration and Air Conditioning	2018- 2019	1 Semester
225	Mechanical Engineering	346761210	BE Students - Count 148	Renewable Energy Sources	2018- 2019	1 Semester
226	Mechanical Engineering	346761210	BE Students - Count 148	Automobile Engineering	2018- 2019	1 Semester
227	Civil Engineering	346719110	SE Students - Count 139	Surveying- I	2018- 2019	1 Semester
228	Civil Engineering	346719110	SE Students - Count 139	Engineering Geology	2018- 2019	1 Semester
229	Civil Engineering	346719110	SE Students - Count 139	Surveying- II	2018- 2019	1 Semester
230	Civil Engineering	346719110	SE Students - Count 139	Building Design & Drawing	2018- 2019	1 Semester
231	Civil Engineering	346719110	TE Students - Count 71	Applied Hydraulics	2018- 2019	1 Semester
232	Civil Engineering	346719110	TE Students - Count 157	Environmental Engineering - I	2018- 2019	1 Semester
233	Civil Engineering	346719110	TE Students - Count 157	Design & Drawing of Steel Structures	2018- 2019	1 Semester
234	Civil Engineering	346719110	TE Students - Count 157	Environmental Engineering - II	2018- 2019	1 Semester



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President

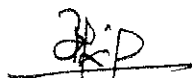
Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

235	Civil Engineering	346719110	BE Students - Count 127	Environmental Engineering -II	2018- 2019	1 Semester
236	Civil Engineering	346719110	BE Students - Count 127	Project- part I	2018- 2019	1 Semester
237	Civil Engineering	346719110	BE Students - Count 127	Design & Drawing of Reinforced Concrete Structures	2018- 2019	1 Semester
238	Civil Engineering	346719110	BE Students - Count 127	Construction Engineering	2018- 2019	1 Semester
239	Civil Engineering	346719110	BE Students - Count 127	Project-Part II	2018- 2019	1 Semester
240	Electrical Engineering	346729310	SE Students - Count 40	Conventional and Non- Conventional Power Generation	2018- 2019	1 Semester
241	Electrical Engineering	346729310	SE Students - Count 40	Electrical & Electronics Measurement - lab	2018- 2019	1 Semester
242	Electrical Engineering	346729310	SE Students - Count 40	Object Oriented Programming and Methodology Lab	2018- 2019	1 Semester
243	Electrical Engineering	346729310	SE Students - Count 40	Electronics Lab - I	2018- 2019	1 Semester
244	Electrical Engineering	346729310	SE Students - Count 40	Electrical Machine Lab - I	2018- 2019	1 Semester
245	Electrical Engineering	346729310	SE Students - Count 40	Simulation Lab - I	2018- 2019	1 Semester
246	Electrical Engineering	346729310	SE Students - Count 40	Electrical Machines Lab - II	2018- 2019	1 Semester

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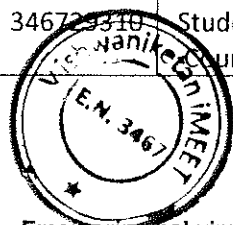
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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

247	Electrical Engineering	346729310	SE Students - Count 40	Electronics Lab - II	2018- 2019	1 Semester
248	Electrical Engineering	346729310	SE Students - Count 40	Electrical Workshop	2018- 2019	1 Semester
249	Electrical Engineering	346729310	TE Students - Count 69	Control System Lab	2018- 2019	1 Semester
250	Electrical Engineering	346729310	TE Students - Count 69	Electrical Machines Lab - III	2018- 2019	1 Semester
251	Electrical Engineering	346729310	TE Students - Count 69	Power Electronics Lab	2018- 2019	1 Semester
252	Electrical Engineering	346729310	TE Students - Count 69	Electrical Protection Lab	2018- 2019	1 Semester
253	Electrical Engineering	346729310	TE Students - Count 69	Electrical Machines Lab - IV	2018- 2019	1 Semester
254	Electrical Engineering	346729310	TE Students - Count 69	Microcontroller Lab	2018- 2019	1 Semester
255	Electrical Engineering	346729310	TE Students - Count 69	Simulation Lab-II	2018- 2019	1 Semester
256	Electrical Engineering	346729310	BE Students - Count 76	Power System Operation & Control	2018- 2019	1 Semester
257	Electrical Engineering	346729310	BE Students - Count 76	High Voltage DC Transmission	2018- 2019	1 Semester
258	Electrical Engineering	346729310	BE Students - Count 76	Electrical Machine Design	2018- 2019	1 Semester
259	Electrical Engineering	346729310	BE Students - Count 76	Control System Lab	2018- 2019	1 Semester



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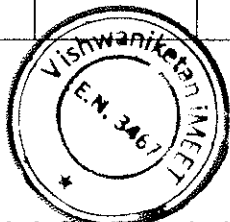
Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

260	Electrical Engineering	346729310	BE Students - Count 76	Project - I	2018-2019	1 Semester
261	Electrical Engineering	346729310	BE Students - Count 76	Design, Management & Auditing of Electrical Systems	2018-2019	1 Semester
262	Electrical Engineering	346729310	BE Students - Count 76	Drives & Control	2018-2019	1 Semester
263	Electrical Engineering	346729310	BE Students - Count 76	Power System Planning & Reliability	2018-2019	1 Semester
264	Electrical Engineering	346729310	BE Students - Count 76	Project - II	2018-2019	1 Semester
265	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Electronic Devices & Circuits I Lab	2018-2019	1 Semester
266	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Digital System Design Lab	2018-2019	1 Semester
267	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	OOPM using JAVA Lab	2018-2019	1 Semester
268	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Electronic Devices & Circuits II Lab	2018-2019	1 Semester

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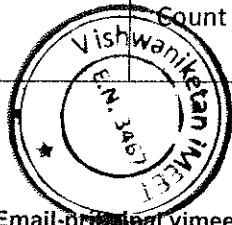
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President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

269	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Linear Integrated Circuits - Lab	2018-2019	1 Semester
270	Electronics and Telecommunication Engineering	346737210	SE Students - Count 32	Principles of Communication Engineering Lab	2018-2019	1 Semester
271	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	microprocessor & Peripherals Interfacing lab	2018-2019	1 Semester
272	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Digital Communication lab	2018-2019	1 Semester
273	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Business Communication & Ethics Lab	2018-2019	1 Semester
274	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Open Source Technology For Communication Lab	2018-2019	1 Semester
275	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Department level Optional lab-I	2018-2019	1 Semester



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President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

276	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Department Level Optional Course II	2018-2019	1 Semester
277	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Microcontrollers & Applications Lab	2018-2019	1 Semester
278	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Computer Communication Networks	2018-2019	1 Semester
279	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Antenna & Radio Wave Propagation	2018-2019	1 Semester
280	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Image Processing and machine Vision Lab	2018-2019	1 Semester
281	Electronics and Telecommunication Engineering	346737210	TE Students - Count 33	Department Level Optional lab II	2018-2019	1 Semester
282	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Image and Video Processing Laboratory	2018-2019	1 Semester



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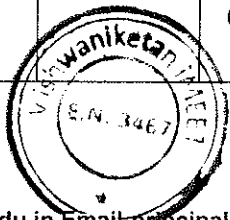
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Dr. B. R. Patil
Principal

283	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Advanced Communication Engineering Laboratory I	2018-2019	1 Semester
284	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Advanced Communication Engineering Laboratory II	2018-2019	1 Semester
285	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Elective	2018-2019	1 Semester
286	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Project Stage I	2018-2019	1 Semester
287	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Wireless Networks Laboratory	2018-2019	1 Semester
288	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Satellite Communication and Networks Laboratory	2018-2019	1 Semester
289	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Internet and Voice Communication Laboratory	2018-2019	1 Semester



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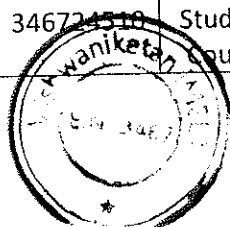
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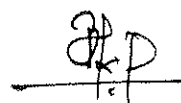
Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

290	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Elective Laboratory	2018-2019	1 Semester
291	Electronics and Telecommunication Engineering	346737210	BE Students - Count 51	Project-II	2018-2019	1 Semester
292	Computer Engineering	346724510	SE Students - Count 73	Digital System Lab	2018-2019	1 Semester
293	Computer Engineering	346724510	SE Students - Count 73	Basic Electronics Lab	2018-2019	1 Semester
294	Computer Engineering	346724510	SE Students - Count 73	Data Structures Lab	2018-2019	1 Semester
295	Computer Engineering	346724510	SE Students - Count 73	OOPM (JAVA) Lab	2018-2019	1 Semester
296	Computer Engineering	346724510	SE Students - Count 73	Analysis of Algorithms Lab	2018-2019	1 Semester
297	Computer Engineering	346724510	SE Students - Count 73	Computer Graphics Lab	2018-2019	1 Semester
298	Computer Engineering	346724510	SE Students - Count 73	Processor Architecture Lab	2018-2019	1 Semester
299	Computer Engineering	346724510	SE Students - Count 73	Operating System Lab	2018-2019	1 Semester
300	Computer Engineering	346724510	SE Students - Count 73	Open Source Tech Lab	2018-2019	1 Semester



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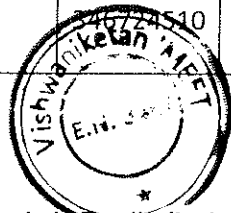
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Principal

301	Computer Engineering	346724510	TE Students - Count 70	Microprocessor Lab	2018- 2019	1 Semester
302	Computer Engineering	346724510	TE Students - Count 70	Computer Network Lab	2018- 2019	1 Semester
303	Computer Engineering	346724510	TE Students - Count 70	Database & Information System Lab	2018- 2019	1 Semester
304	Computer Engineering	346724510	TE Students - Count 70	Web Design Lab	2018- 2019	1 Semester
305	Computer Engineering	346724510	TE Students - Count 70	Business Comm. & Ethics	2018- 2019	1 Semester
306	Computer Engineering	346724510	TE Students - Count 70	Software Engineering Lab	2018- 2019	1 Semester
307	Computer Engineering	346724510	TE Students - Count 70	System Software Lab	2018- 2019	1 Semester
308	Computer Engineering	346724510	TE Students - Count 70	Data Warehousing & Mining Lab	2018- 2019	1 Semester
309	Computer Engineering	346724510	TE Students - Count 70	System Security Lab	2018- 2019	1 Semester
310	Computer Engineering	346724510	TE Students - Count 70	Mini Project	2018- 2019	1 Semester
311	Computer Engineering	346724510	BE Students - Count 77	Digital Signal Processing	2018- 2019	1 Semester
312	Computer Engineering	346724510	BE Students - Count 77	Cryptography and System Security	2018- 2019	1 Semester
313	Computer Engineering	346724510	BE Students - Count 77	Artificial Intelligence	2018- 2019	1 Semester



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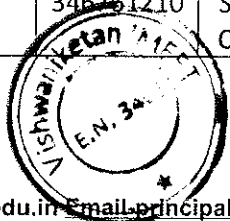
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President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

314	Computer Engineering	346724510	BE Students - Count 77	Elective -II	2018- 2019	1 Semester
315	Computer Engineering	346724510	BE Students - Count 77	Project - I	2018- 2019	1 Semester
316	Computer Engineering	346724510	BE Students - Count 77	Network Threats and Attacks Laboratory	2018- 2019	1 Semester
317	Computer Engineering	346724510	BE Students - Count 77	Data Warehouse and Mining	2018- 2019	1 Semester
318	Computer Engineering	346724510	BE Students - Count 77	Human Machine Interaction	2018- 2019	1 Semester
319	Computer Engineering	346724510	BE Students - Count 77	Parallel and Distributed Systems	2018- 2019	1 Semester
320	Computer Engineering	346724510	BE Students - Count 77	Elective -III	2018- 2019	1 Semester
321	Computer Engineering	346724510	BE Students - Count 77	Cloud Computing Laboratory	2018- 2019	1 Semester
322	Computer Engineering	346724510	BE Students - Count 77	Project-II	2018- 2019	1 Semester
323	Mechanical Engineering	346761210	SE Students - Count 150	Fluid Mechanics	2017- 2018	1 Semester
324	Mechanical Engineering	346761210	TE Students - Count 156	Thermal and Fluid Power Engineering	2017- 2018	1 Semester
325	Mechanical Engineering	346761210	TE Students - Count 156	Mechatronics	2017- 2018	1 Semester
326	Mechanical Engineering	346761210	TE Students - Count 156	Finite Element Analysis	2017- 2018	1 Semester



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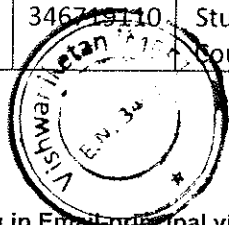
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Mr. Madhu Bathija
President

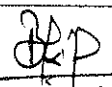
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Secretary

Dr. B. R. Patil
Principal

327	Mechanical Engineering	346761210	BE Students - Count 145	Machine Design- II	2017- 2018	1 Semester
328	Mechanical Engineering	346761210	BE Students - Count 145	CAD/CAM/CAE	2017- 2018	1 Semester
329	Mechanical Engineering	346761210	BE Students - Count 145	Power Plant Engineering	2017- 2018	1 Semester
330	Mechanical Engineering	346761210	BE Students - Count 145	Project- I	2017- 2018	1 Semester
331	Mechanical Engineering	346761210	BE Students - Count 145	Design of Mechanical Systems	2017- 2018	1 Semester
332	Mechanical Engineering	346761210	BE Students - Count 145	Industrial Engineering and Management	2017- 2018	1 Semester
333	Mechanical Engineering	346761210	BE Students - Count 145	Refrigeration and Air Conditioning	2017- 2018	1 Semester
334	Mechanical Engineering	346761210	BE Students - Count 145	Renewable Energy Sources	2017- 2018	1 Semester
335	Mechanical Engineering	346761210	BE Students - Count 145	Automobile Engineering	2017- 2018	1 Semester
336	Mechanical Engineering	346761210	BE Students - Count 145	Project- II	2017- 2018	1 Semester
337	Civil Engineering	346719110	SE Students - Count 154	Surveying- I	2017- 2018	1 Semester
338	Civil Engineering	346719110	SE Students - Count 154	Engineering Geology	2017- 2018	1 Semester
339	Civil Engineering	346719110	SE Students - Count 154	Surveying- II	2017- 2018	1 Semester



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Mr. Madhu Bathija
President


Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

340	Civil Engineering	346719110	SE Students - Count 154	Building Design & Drawing I	2017- 2018	1 Semester
341	Civil Engineering	346719110	SE Students - Count 154	Building Design & Drawing-II	2017- 2018	1 Semester
342	Civil Engineering	346719110	TE Students - Count 135	Applied Hydraulics -I	2017- 2018	1 Semester
343	Civil Engineering	346719110	TE Students - Count 135	Design And Drawing Of Steel Structures	2017- 2018	1 Semester
344	Civil Engineering	346719110	TE Students - Count 135	Applied Hydraulics -II	2017- 2018	1 Semester
345	Civil Engineering	346719110	TE Students - Count 135	Environmental Engg-I	2017- 2018	1 Semester
346	Civil Engineering	346719110	BE Students - Count 103	Environmental Engineering -II	2017- 2018	1 Semester
347	Civil Engineering	346719110	BE Students - Count 103	Project- part I	2017- 2018	1 Semester
348	Civil Engineering	346719110	BE Students - Count 103	Design & Drawing of Reinforced Concrete Structures	2017- 2018	1 Semester
349	Civil Engineering	346719110	BE Students - Count 103	Construction Engineering	2017- 2018	1 Semester
350	Civil Engineering	346719110	BE Students - Count 103	Project-Part II	2017- 2018	1 Semester
351	Electrical Engineering	346729310	SE Students - Count 79	Conventional and Non- Conventional Power Generation	2017- 2018	1 Semester



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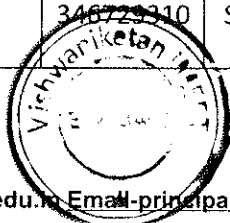
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President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

352	Electrical Engineering	346729310	SE Students - Count 79	Electrical & Electronics Measurement - lab	2017-2018	1 Semester
353	Electrical Engineering	346729310	SE Students - Count 79	Object Oriented Programming and Methodology Lab	2017-2018	1 Semester
354	Electrical Engineering	346729310	SE Students - Count 79	Electronics Lab - I	2017-2018	1 Semester
355	Electrical Engineering	346729310	SE Students - Count 79	Electrical Machine Lab - I	2017-2018	1 Semester
356	Electrical Engineering	346729310	SE Students - Count 79	Simulation Lab - I	2017-2018	1 Semester
357	Electrical Engineering	346729310	SE Students - Count 79	Electrical Machines Lab - II	2017-2018	1 Semester
358	Electrical Engineering	346729310	SE Students - Count 79	Electronics Lab - II	2017-2018	1 Semester
359	Electrical Engineering	346729310	SE Students - Count 79	Electrical Workshop	2017-2018	1 Semester
360	Electrical Engineering	346729310	TE Students - Count 79	Protection and Switchgear Engineering	2017-2018	1 Semester
361	Electrical Engineering	346729310	TE Students - Count 79	Power Electronics	2017-2018	1 Semester
362	Electrical Engineering	346729310	TE Students - Count 79	Power System Analysis	2017-2018	1 Semester
363	Electrical Engineering	346729310	TE Students - Count 79	Electrical Machines- III	2017-2018	1 Semester
364	Electrical Engineering	346729310	TE Students - Count 79	Utilization of Electrical Energy	2017-2018	1 Semester



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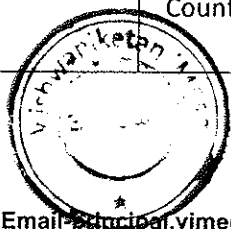
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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

365	Electrical Engineering	346729310	TE Students - Count 79	Control System - I	2017- 2018	1 Semester
366	Electrical Engineering	346729310	TE Students - Count 79	Microcontroller and its Applications	2017- 2018	1 Semester
367	Electrical Engineering	346729310	BE Students - Count 49	Power System Operation & Control	2017- 2018	1 Semester
368	Electrical Engineering	346729310	BE Students - Count 49	High Voltage DC Transmission	2017- 2018	1 Semester
369	Electrical Engineering	346729310	BE Students - Count 49	Electrical Machine Design	2017- 2018	1 Semester
370	Electrical Engineering	346729310	BE Students - Count 49	Control System- II	2017- 2018	1 Semester
371	Electrical Engineering	346729310	BE Students - Count 49	Project - I	2017- 2018	1 Semester
372	Electrical Engineering	346729310	BE Students - Count 49	Design, Management & Auditing of Electrical Systems	2017- 2018	1 Semester
373	Electrical Engineering	346729310	BE Students - Count 49	Drives & Control	2017- 2018	1 Semester
374	Electrical Engineering	346729310	BE Students - Count 49	Power System Planning & Reliability	2017- 2018	1 Semester
375	Electrical Engineering	346729310	BE Students - Count 49	Project - II	2017- 2018	1 Semester
376	Electronics and Telecommunication Engineering	346737210	SE Students - Count 33	Electronic Devices & Circuits I Lab	2017- 2018	1 Semester



Principal

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President

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Dr. B. R. Patil
Principal

377	Electronics and Telecommunication Engineering	346737210	SE Students - Count 33	Digital System Design Lab	2017-2018	1 Semester
378	Electronics and Telecommunication Engineering	346737210	SE Students - Count 33	OOPM using JAVA Lab	2017-2018	1 Semester
379	Electronics and Telecommunication Engineering	346737210	SE Students - Count 33	Electronic Devices & Circuits II Lab	2017-2018	1 Semester
380	Electronics and Telecommunication Engineering	346737210	SE Students - Count 33	Linear Integrated Circuits - Lab	2017-2018	1 Semester
381	Electronics and Telecommunication Engineering	346737210	SE Students - Count 33	Principles of Communication Engineering Lab	2017-2018	1 Semester
382	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Microprocessors and Applications laboratory	2017-2018	1 Semester
383	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Communications Engineering Laboratory I	2017-2018	1 Semester



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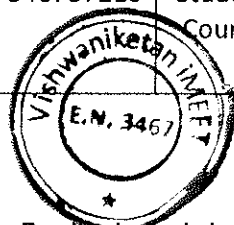
**Survey No. 52, Kumbhivali, Near Khalapur Toll Naka, Off. Mumbai - Pune Expressway, Tal. Khalapur,
Dist. Raigad, Pin - 410 202 Contact No. +91 9766783646**

Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

384	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Communications Engineering Laboratory II	2017-2018	1 Semester
385	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Mini Project I	2017-2018	1 Semester
386	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Discrete Time Signal Processing Laboratory	2017-2018	1 Semester
387	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Communications Engineering Laboratory III	2017-2018	1 Semester
388	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Communications Engineering Laboratory IV	2017-2018	1 Semester
389	Electronics and Telecommunication Engineering	346737210	TE Students - Count 54	Mini Project II	2017-2018	1 Semester
390	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Image and Video Processing Laboratory	2017-2018	1 Semester



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Principal



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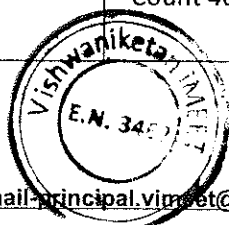
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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

391	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Advanced Communication Engineering Laboratory I	2017-2018	1 Semester
392	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Advanced Communication Engineering Laboratory II	2017-2018	1 Semester
393	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Elective	2017-2018	1 Semester
394	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Project Stage I	2017-2018	1 Semester
395	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Wireless Networks Laboratory	2017-2018	1 Semester
396	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Satellite Communication and Networks Laboratory	2017-2018	1 Semester
397	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Internet and Voice Communication Laboratory	2017-2018	1 Semester



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Principal
Vishwaniketan's (ViMEET)



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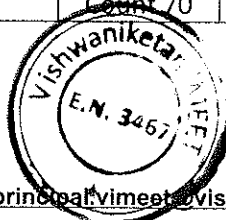
Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

398	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Elective Laboratory	2017-2018	1 Semester
399	Electronics and Telecommunication Engineering	346737210	BE Students - Count 40	Project Stage II	2017-2018	1 Semester
400	Computer Engineering	346724510	SE Students - Count 70	Digital System Lab	2017-2018	1 Semester
401	Computer Engineering	346724510	SE Students - Count 70	Basic Electronics Lab	2017-2018	1 Semester
402	Computer Engineering	346724510	SE Students - Count 70	Data Structures Lab	2017-2018	1 Semester
403	Computer Engineering	346724510	SE Students - Count 70	OOPM (JAVA) Lab	2017-2018	1 Semester
404	Computer Engineering	346724510	SE Students - Count 70	Analysis of Algorithms Lab	2017-2018	1 Semester
405	Computer Engineering	346724510	SE Students - Count 70	Computer Graphics Lab	2017-2018	1 Semester
406	Computer Engineering	346724510	SE Students - Count 70	Processor Architecture Lab	2017-2018	1 Semester
407	Computer Engineering	346724510	SE Students - Count 70	Operating System Lab	2017-2018	1 Semester
408	Computer Engineering	346724510	SE Students - Count 70	Open Source Tech Lab	2017-2018	1 Semester

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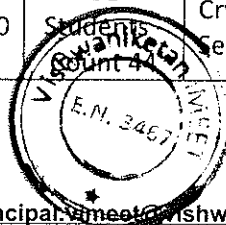
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Mr. Madhu Bathija
 President

Mr. Sunil Bangar
 Secretary

Dr. B. R. Patil
 Principal

409	Computer Engineering	346724510	TE Students - Count 70	Microprocessors	2017- 2018	1 Semester
410	Computer Engineering	346724510	TE Students - Count 70	Operating Systems	2017- 2018	1 Semester
411	Computer Engineering	346724510	TE Students - Count 70	Structured and Object oriented Analysis and Design	2017- 2018	1 Semester
412	Computer Engineering	346724510	TE Students - Count 70	Computer Networks	2017- 2018	1 Semester
413	Computer Engineering	346724510	TE Students - Count 70	Web Technology Laboratory	2017- 2018	1 Semester
414	Computer Engineering	346724510	TE Students - Count 70	Business Communications and Ethics	2017- 2018	1 Semester
415	Computer Engineering	346724510	TE Students - Count 70	System Programming and Compiler Construction	2017- 2018	1 Semester
416	Computer Engineering	346724510	TE Students - Count 70	Software Engineering	2017- 2018	1 Semester
417	Computer Engineering	346724510	TE Students - Count 70	Distributed Databases	2017- 2018	1 Semester
418	Computer Engineering	346724510	TE Students - Count 70	Mobile Communication and Computing	2017- 2018	1 Semester
419	Computer Engineering	346724510	TE Students - Count 70	Network Programming Laboratory	2017- 2018	1 Semester
420	Computer Engineering	346724510	BE Students - Count 44	Digital Signal Processing	2017- 2018	1 Semester
421	Computer Engineering	346724510	BE Students - Count 44	Cryptography and System Security	2017- 2018	1 Semester

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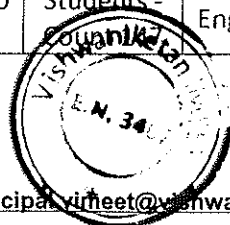
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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

422	Computer Engineering	346724510	BE Students - Count 44	Artificial Intelligence	2017-2018	1 Semester
423	Computer Engineering	346724510	BE Students - Count 44	Elective -II	2017-2018	1 Semester
424	Computer Engineering	346724510	BE Students - Count 44	Project - I	2017-2018	1 Semester
425	Computer Engineering	346724510	BE Students - Count 44	Network Threats and Attacks Laboratory	2017-2018	1 Semester
426	Computer Engineering	346724510	BE Students - Count 44	Data Warehouse and Mining	2017-2018	1 Semester
427	Computer Engineering	346724510	BE Students - Count 44	Human Machine Interaction	2017-2018	1 Semester
428	Computer Engineering	346724510	BE Students - Count 44	Parallel and Distributed Systems	2017-2018	1 Semester
429	Computer Engineering	346724510	BE Students - Count 44	Elective -III	2017-2018	1 Semester
430	Computer Engineering	346724510	BE Students - Count 44	Cloud Computing Laboratory	2017-2018	1 Semester
431	Computer Engineering	346724510	BE Students - Count 44	Project-II	2017-2018	1 Semester
432	Mechanical Engineering	346761210	SE Students - Count 154	Fluid Mechanics	2016-2017	1 Semester
433	Mechanical Engineering	346761210	SE Students - Count 154	Theory of Machines - I	2016-2017	1 Semester
434	Mechanical Engineering	346761210	TE Students -	Thermal and Fluid Power Engineering	2016-2017	1 Semester



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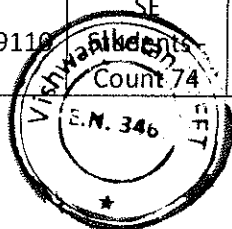
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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

435	Mechanical Engineering	346761210	TE Students - Count 147	Mechatronics	2016- 2017	1 Semester
436	Mechanical Engineering	346761210	TE Students - Count 147	Finite Element Analysis	2016- 2017	1 Semester
437	Mechanical Engineering	346761210	BE Students - Count 102	Machine Design- II	2016- 2017	1 Semester
438	Mechanical Engineering	346761210	BE Students - Count 102	CAD/CAM/CAE	2016- 2017	1 Semester
439	Mechanical Engineering	346761210	BE Students - Count 102	Power Plant Engineering	2016- 2017	1 Semester
440	Mechanical Engineering	346761210	BE Students - Count 102	Project- I	2016- 2017	1 Semester
441	Mechanical Engineering	346761210	BE Students - Count 102	Design of Mechanical Systems	2016- 2017	1 Semester
442	Mechanical Engineering	346761210	BE Students - Count 102	Industrial Engineering and Management	2016- 2017	1 Semester
443	Mechanical Engineering	346761210	BE Students - Count 102	Refrigeration and Air Conditioning	2016- 2017	1 Semester
444	Mechanical Engineering	346761210	BE Students - Count 102	Renewable Energy Sources	2016- 2017	1 Semester
445	Mechanical Engineering	346761210	BE Students - Count 102	Automobile Engineering	2016- 2017	1 Semester
446	Mechanical Engineering	346761210	BE Students - Count 102	Project- II	2016- 2017	1 Semester
447	Civil Engineering	346719110	SE Students - Count 74	Surveying-I	2016- 2017	1 Semester



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Dr. B. R. Patil
Principal

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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

448	Civil Engineering	346719110	SE Students - Count 74	Engineering Geology	2016- 2017	1 Semester
449	Civil Engineering	346719110	SE Students - Count 74	Surveying -II	2016- 2017	1 Semester
450	Civil Engineering	346719110	SE Students - Count 74	Building Design & Drawing-I	2016- 2017	1 Semester
451	Civil Engineering	346719110	SE Students - Count 74	Concrete Technology	2016- 2017	1 Semester
452	Civil Engineering	346719110	TE Students - Count 107	Building Design & Drawing-II	2016- 2017	1 Semester
453	Civil Engineering	346719110	TE Students - Count 107	Applied Hydraulics -I	2016- 2017	1 Semester
454	Civil Engineering	346719110	TE Students - Count 107	Design And Drawing Of Steel Structures	2016- 2017	1 Semester
455	Civil Engineering	346719110	TE Students - Count 107	Environmental Engg-I	2016- 2017	1 Semester
456	Civil Engineering	346719110	BE Students - Count 62	Environmental Engineering -II	2016- 2017	1 Semester
457	Civil Engineering	346719110	BE Students - Count 62	Project- part I	2016- 2017	1 Semester
458	Civil Engineering	346719110	BE Students - Count 62	Design & Drawing of Reinforced Concrete Structures	2016- 2017	1 Semester
459	Civil Engineering	346719110	BE Students - Count 62	Construction Engineering	2016- 2017	1 Semester
460	Civil Engineering	346719110	BE Students - Count 62	Project-Part II	2016- 2017	1 Semester



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Principal
Vishwaniketan's (ViMEET)



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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

461	Electrical Engineering	346729310	SE Students - Count 80	Conventional and NonConventional Power Generation	2016-2017	1 Semester
462	Electrical Engineering	346729310	SE Students - Count 80	Elements of Power System	2016-2017	1 Semester
463	Electrical Engineering	346729310	TE Students - Count 49	Protection and Switchgear Engineering	2016-2017	1 Semester
464	Electrical Engineering	346729310	TE Students - Count 44	Utilization of Electrical Energy	2016-2017	1 Semester
465	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Analog Electronics laboratory	2016-2017	1 Semester
466	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Digital Electronics Laboratory	2016-2017	1 Semester
467	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Circuits And Measurements Laboratory	2016-2017	1 Semester
468	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Object oriented Programming methodology Laboratory	2016-2017	1 Semester



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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

469	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Analog Electronics II laboratory	2016-2017	1 Semester
470	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Microprocessors and Peripherals laboratory	2016-2017	1 Semester
471	Electronics and Telecommunication Engineering	346737210	SE Students - Count 52	Software Simulation laboratory	2016-2017	1 Semester
472	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Microprocessors and Applications laboratory	2016-2017	1 Semester
473	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Communications Engineering Laboratory I	2016-2017	1 Semester
474	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Communications Engineering Laboratory II	2016-2017	1 Semester
475	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Mini Project I	2016-2017	1 Semester



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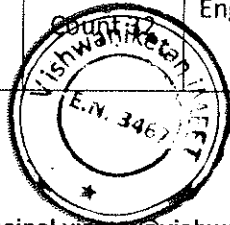
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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

476	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Discrete Time Signal Processing Laboratory	2016-2017	1 Semester
477	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Communications Engineering Laboratory III	2016-2017	1 Semester
478	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Communications Engineering Laboratory IV	2016-2017	1 Semester
479	Electronics and Telecommunication Engineering	346737210	TE Students - Count 51	Mini Project II	2016-2017	1 Semester
480	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Image and Video Processing Laboratory	2016-2017	1 Semester
481	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Advanced Communication Engineering Laboratory I	2016-2017	1 Semester
482	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Advanced Communication Engineering Laboratory II	2016-2017	1 Semester



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Principal



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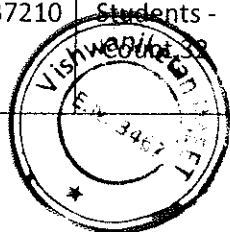
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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

483	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Elective	2016-2017	1 Semester
484	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Project Stage I	2016-2017	1 Semester
485	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Wireless Networks Laboratory	2016-2017	1 Semester
486	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Satellite Communication and Networks Laboratory	2016-2017	1 Semester
487	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Internet and Voice Communication Laboratory	2016-2017	1 Semester
488	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Elective Laboratory	2016-2017	1 Semester
489	Electronics and Telecommunication Engineering	346737210	BE Students - Count 32	Project Stage II	2016-2017	1 Semester



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Principal
Vishwaniketan's (I MEET)



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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

490	Computer Engineering	346724510	SE Students - Count 78	Objec Oriented Programming Methodology	2016- 2017	1 Semester
491	Computer Engineering	346724510	SE Students - Count 78	Data Structures	2016- 2017	1 Semester
492	Computer Engineering	346724510	SE Students - Count 78	Digital Logic Design and Analysis	2016- 2017	1 Semester
493	Computer Engineering	346724510	SE Students - Count 78	Electonic Circuits and Communication Fundamentals	2016- 2017	1 Semester
494	Computer Engineering	346724510	SE Students - Count 78	Analysis of Algorithms	2016- 2017	1 Semester
495	Computer Engineering	346724510	SE Students - Count 78	Computer Organization and Architecture	2016- 2017	1 Semester
496	Computer Engineering	346724510	SE Students - Count 78	Database Management Systems	2016- 2017	1 Semester
497	Computer Engineering	346724510	SE Students - Count 78	Computer Graphics	2016- 2017	1 Semester
498	Computer Engineering	346724510	TE Students - Count 61	Microprocessors	2016- 2017	1 Semester
499	Computer Engineering	346724510	TE Students - Count 61	Operating Systems	2016- 2017	1 Semester
500	Computer Engineering	346724510	TE Students - Count 61	Structured and Object oriented Analysis and Design	2016- 2017	1 Semester
501	Computer Engineering	346724510	TE Students - Count 61	Computer Networks	2016- 2017	1 Semester

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Dr. B. R. Patil

Principal

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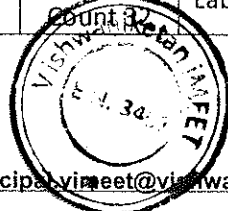
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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

502	Computer Engineering	346724510	TE Students - Count 61	Web Technology Laboratory	2016- 2017	1 Semester
503	Computer Engineering	346724510	TE Students - Count 61	Business Communications and Ethics	2016- 2017	1 Semester
504	Computer Engineering	346724510	TE Students - Count 61	System Programming and Compiler Construction	2016- 2017	1 Semester
505	Computer Engineering	346724510	TE Students - Count 61	Software Engineering	2016- 2017	1 Semester
506	Computer Engineering	346724510	TE Students - Count 61	Distributed Databases	2016- 2017	1 Semester
507	Computer Engineering	346724510	TE Students - Count 61	Mobile Communication and Computing	2016- 2017	1 Semester
508	Computer Engineering	346724510	TE Students - Count 61	Network Programming Laboratory	2016- 2017	1 Semester
509	Computer Engineering	346724510	BE Students - Count 32	Digital Signal Processing	2016- 2017	1 Semester
510	Computer Engineering	346724510	BE Students - Count 32	Cryptography and System Security	2016- 2017	1 Semester
511	Computer Engineering	346724510	BE Students - Count 32	Artificial Intelligence	2016- 2017	1 Semester
512	Computer Engineering	346724510	BE Students - Count 32	Elective -II	2016- 2017	1 Semester
513	Computer Engineering	346724510	BE Students - Count 32	Project - I	2016- 2017	1 Semester
514	Computer Engineering	346724510	BE Students - Count 32	Network Threats and Attacks Laboratory	2016- 2017	1 Semester



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2016-
2017

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Mr. Madhu Bathija
President

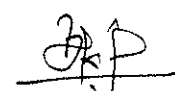
Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

515	Computer Engineering	346724510	BE Students - Count 32	Data Warehouse and Mining	2016- 2017	1 Semester
516	Computer Engineering	346724510	BE Students - Count 32	Human Machine Interaction	2016- 2017	1 Semester
517	Computer Engineering	346724510	BE Students - Count 32	Parallel and Distributed Systems	2016- 2017	1 Semester
518	Computer Engineering	346724510	BE Students - Count 32	Elective -III	2016- 2017	1 Semester
519	Computer Engineering	346724510	BE Students - Count 32	Cloud Computing Laboratory	2016- 2017	1 Semester
520	Computer Engineering	346724510	BE Students - Count 32	Project-II	2016- 2017	1 Semester



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Principal
Vishwaniketan's (I MEET)



Kopran

KOP/KHP/HR/2021/2030

Date: May 3, 2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that, **Mr. Vinit S Chogale** the student of Third year Mechanical from Vishwaniketan has undergone industrial training in our company for One month.

During the tenure of his training he found sincere & studious.

We wish him all the best in his future endeavors.

For, **KOPRAN LIMITED.,**

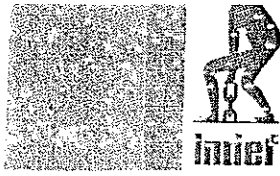
K G Sharma
(Manager- HR & Admin.)



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Principal
Vishwaniketan's (I MEET)





HERCULES HOISTS LIMITED

Date: 14-2-2019.

CERTIFICATE FOR INTERNSHIP

TO WHOM IT MAY CONCERN

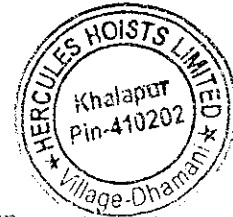
This is to certify that Mr. / Miss. NIKHIL S. UTEKAR student of Mechanical - B.C of Vishwaniketan Institute of Management Entrepreneurship & Engineering Technology- Khalapur, has completed from 06 /01 /2020 to 17 /01 /2020. Internship at Hercules Hoists Ltd (Bajaj Group) Khalapur Raighad, M.S.

During the period of his internship with us he was found punctual, hardworking, and inquisitive.

This training was held with reference to Dr. Nidhi A. Singh faculty of Vishwaniketan

We wish him every success in life.

Sanjay D. Bisen
Sr. Executive Engineer
Production

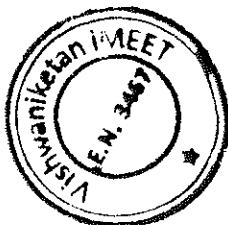


bajaj group

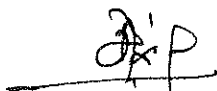
Corporate Office & Works
43/2B, Savroli-Kharpada Road
Dhamani, Khalapur 410202
Maharashtra
INDIA

T: +91 2192 274601
F: +91 2192 274125
E: indef@indef.com
U: www.indef.com

Registered Office
Bajaj Bhawan, 2nd Floor
226, Jammalal Bajaj Marg
Mumbai 400 021, INDIA
CIN: L45400MH1962PLC012385

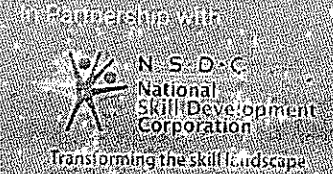


TRIF COOY


Principal
Vishwaniketan's (I MEET)

CERTIFICATE NO : GT/SR/215819

DATE : 27th July 2021



CERTIFICATE

OF COMPLETION

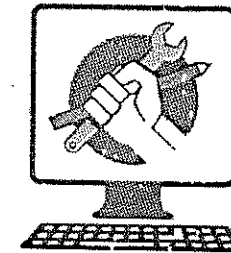
This is to certify that

Tejasvi Sharad Patil

Has successfully Completed 2 Weeks Virtual Internship on

“ Refrigeration & Air-Conditioning System ”

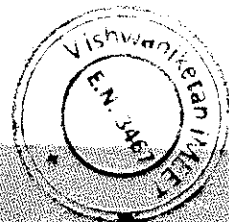
held from **9th July 2021 to 23rd July 2021**



Skill India

कौशल भारत - कुशल भारत

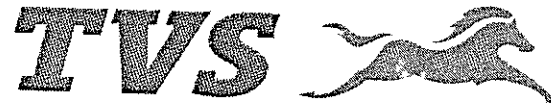
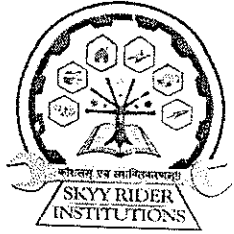
CEO, Skyy Rider Institution



TRUE COPY

Principal
Vishwaniketan's (I MEET)

MD, Gram Tarang



Centurion
UNIVERSITY

CERTIFICATE

— OF PARTICIPATION —

TVS MOTOR COMPANY LTD

This is to certify that

SUYOG KISHOR MHATRE

from Vishwaniketan Institute of Management bearing registration no. SRI01-205041
has actively participated in the entrepreneurship and Engineering Technology Virtual Industrial Training on “Advanced Two
Wheeler Technology”, held from 21st June 2021 to 5th July 2021

Chief Executive Officer
Skyy Rider Institution

TRUE COPY



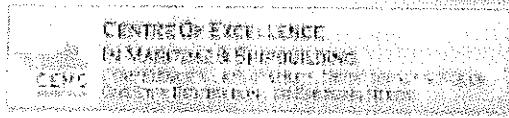
National Service Manager
TVS Motors Company Ltd.

Principal

Vishwaniketan's (I MEET)

Program Manager
Centurion University

Certificate No- SRI-OT01-2143730



ST. JOHN COLLEGE OF ENGINEERING AND MANAGEMENT


CERTIFICATE OF COMPLETION

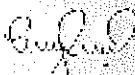
THIS CERTIFICATE IS PROUDLY PRESENTED TO
AKSHATA ASHOK SORATE

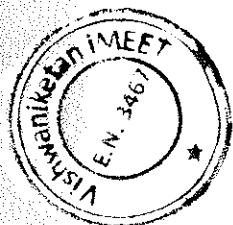
Vishwaniketan's Institute of Management Entrepreneurship & from Engineering Technology - [VIMEET], Raigarh
after submitting the mini-project/case-study entitled
THERMOELECTRIC REFRIGERATION


to fulfil the requirements for successfully completing one week Online Internship Program on Industrial Progression of Mechanical Engineering organized by Department of Mechanical Engineering, St. John College of Engineering and Management, Palghar from 18th July to 24th July 2020

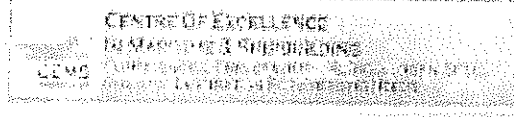
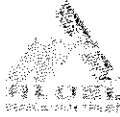

Dr. Hitesh Thakare
Coordinator


Dr. Ajoy Kumar
Vice Principal,
Dean Academics


Dr. G.V. Mulgund
Principal




Principal
Vishwaniketan's (I MEET)



ST. JOHN COLLEGE OF
ENGINEERING AND MANAGEMENT

CERTIFICATE OF COMPLETION


THIS CERTIFICATE IS PROUDLY PRESENTED TO
SIDDHESH BHARAT SHIRKE

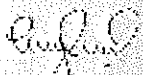
from Vishwaniketan (IMEET)

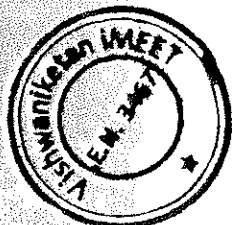
after submitting the mini-project/case-study entitled
Sustainable Development in Mechanical Engineering

to fulfil the requirements for successfully completing one week
Online Internship Program on Industrial Progression of
Mechanical Engineering organized by Department of
Mechanical Engineering, St. John College of Engineering and
Management, Palghar from 18th July to 24th July 2020


Dr. Hitesh Thakare
Coordinator


Dr. Ajoy Kumar
Vice Principal,
Dean Academics


Dr. G.V. Mulgund
Principal




Principal
Vishwaniketan's (I MEET)



SOLACE COGEN
Best never rest

October 17, 2020

TO WHOMSOEVER IT MAY CONCERN


This is to clarify that Mr. Shubham Shankar Bhavke student of Vishwaniketan institute of technology, Khalapur has undergone Training in our organization in Design and Development Department for period of one month From 10th September, 2020 to 11th October, 2020.

During his internship, he was exposed to the various activity in Solar Products and Factory Layout.

We extend our best wishes in all his future endeavors.

For Solace Cogen Pvt. Ltd.




Principal
Vishwaniketan's (I) MEET



Authorised Signature

HR Department

SOLACE COGEN PVT. LTD.

TRUE COPY

Registered office: A/101, Durgadevi, Wadgaon, Sec. 1, Kharadi Colony, New Panvel - (W), Dist. Thane, Maharashtra - 401301.

Sales office: 125, Grownan, Tower sector 2, Kharadi, New Panvel - (W) 401310

5-2078, Vile Parane MIDC, Mangalore, Rajapur-402308 CIN: U29309MH12018PT035132

Website: www.solacecogen.com Email: hr@solacecogen.com

Kind Attention,
Suraj Arun Maharnur

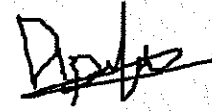
This Certificate is presented to
Suraj Arun Maharnur

for being an online intern, during the internship the intern had undertaken project in Quantity Surveying and Estimation for RCC components using MS-Excel Software.

We wish you All the best for future endeavour.

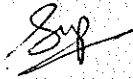
We hereby request the intern to acknowledge the same.

Duration: 29 September 2020 to 14 October 2020


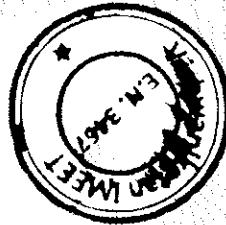


Authorized Signatory
(Apaha Trainers & Consultants Pvt. Ltd.)

TRUE COPY



Head of Department
Civil Engineering
Vishwaniketan's IMEET



Principal
Vishwaniketan's (I MEET)



INTERNATIONAL ACCREDITATIONS



Pune (Head Office)

203, Wall Street 24, Above Mc Donalds, Mumbai-Bangalore Highway, Warje, Pune - 411058.(MH) India

Website-www.apah.org.in Contact +918983004197 / +919158205882 email-training@apah.org.in

Dt.: 4.6.2021

TO WHOMSOEVER IT MAY CONCERN

I hereby certify that Mr. Shivam Sinha has completed his training for site engineer from 21.03.2021 to 31.05.2021 in our project 'Progressive's Prive', plot no.80, sector 21, Ulwe, Navi Mumbai. He is sincere, hardworking & honest in his duties.

Yours sincerely,

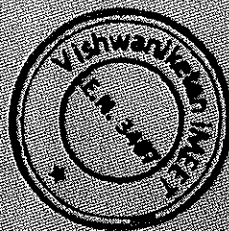
For Progressive Homes



Authorised Signatory

(Project manager)

Head of Department
Civil Engineering
Vishwaniketan's iMEET



Principal
Vishwaniketan's (iMEET)

TRUE COPY



VISHWANIKETAN'S
Institute of Management Entrepreneurship & Engineering Technology [i MEET]

Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE NO. EN: 3467

Survey No. 52, Khumbhivali, Near Khalapur Toll Naka, off. Mumbai-Pune Expressway, Tal. - Khalapur,
Dist - Raigad - Pin - 410 202 Telephone - 02192 - 274 206/07/08/10 Fax - 02192 - 274 210

Dr. Ramjee Prasad
Hon Chairman

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

Ref. No. : ViMEET / Visit /CE/504/2019-20

Date : 25 / 02 /2020

To,
Project manager,

S.G. Gharat,

TIPL, Padeghar, Uran,

Raigad.

Subject: About students' site visit to Crushing Plant.

Sir,

The following students of (BE Civil) 4th year, Studying in Vishwaniketan's iMEET Khalapur, want to visit Crushing Plant on 26/02/2020 to 27/02/2020, for their academic final year Project.

Vishwaniketan is a public trust established by professionals drawn from the industry, education and administration with excellent experience in the respective fields. The campus has been located near Navi Mumbai, at Khalapur on Mumbai- Pune expressway. This has created platform for students, teachers, researchers and professionals to adopt excellent teaching - learning practices based on project Based Learning (PBL). This will encourage entrepreneurship and finally support product-development through start-ups and empower teachers and the society by technology-solutions.

The students in the group are as follows

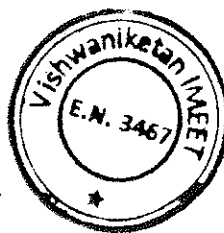
Sr. No	Name of the students	Branch and year	Contact number
1	Nilesh Pokharkar	Civil (BE)	9702752117
2	Sankalp khedekar	Civil (BE)	9029443143
3	Janvi kothekar	Civil (BE)	8554921454
4	Vrushali Karnuk	Civil (BE)	9168302370

You are requested to permit them to visit your site.

Thanking You,

Prof. Sneha Hirkane
Project Guide

Prof. Shilpa Deshpande
H.O.D Civil Engg. Dept
Head of Department
Civil Engineering
Vishwaniketan's iMEET


Principal
Vishwaniketan's (i MEET)
Dr. B. R. Patil
Principal ViMEET

TRUE COPY



VISHWANIKETAN'S
Institute of Management Entrepreneurship & Engineering Technology [ViMEET]
Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE : EN3467

Survey No. 52, Khumbiyali, Near Khalapur Toll Naka, off Mumbai-Pune Expressway, Tal. - Khalapur,
Dist. Raigad - Pin - 413 202 Telephone - 02192 - 274 206/07/08/10 Fax - 02192 - 274 210

Dr. Ramjee Prasad
Hon Chairman

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

Ref. No. : ViMEET / Visit /CE/485 /2019-20

Date : 14 / 01 /2020

To,
Project manager,
Damu Nagar, End of Aakruli Road
Kandiwali (East).

Subject: About students' site visit to Crushing Plant.

Sir,

The following students of (BE Civil) 4th year, Studying in Vishwaniketan's iMEET Khalapur, want to visit Crushing Plant on 15/01/2020 to 20/01/2020, for their academic final year Project.

Vishwaniketan is a public trust established by professionals drawn from the industry, education and administration with excellent experience in the respective fields. The campus has been located near Navi Mumbai, at Khalapur on Mumbai- Pune expressway. This has created platform for students, teachers, researchers and professionals to adopt excellent teaching – learning practices based on project Based Learning (PBL). This will encourage entrepreneurship and finally support product-development through start-ups and empower teachers and the society by technology-solutions.

The students in the group are as follows

Sr. No	Name of the students	Branch and year	Contact number
1	Nilesh Pokharkar	Civil (BE)	9702752117
2	Sankalp khedekar	Civil (BE)	9029443143
3	Janvi kothekar	Civil (BE)	8554921454
4	Vrushali Karnuk	Civil (BE)	9168302370

You are requested to permit them to visit your site.

Thanking You,

Prof. Sneha Hirkan
Project Guide

Prof. Shilpa Deshpande
H.O.D Civil Engg. Dept.
Civil Engineer
Vishwaniketan's iMEET


Principal
Vishwaniketan's (ViMEET)
Dr. B.R. Patil
Principal ViMEET,
Head of Department
Civil Engineering
Vishwaniketan's iMEET

TRUE COPY



VISHWANIKETAN'S
Institute of Management Entrepreneurship & Engineering Technology [ViMEET]
Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE : EN3467

Survey No. 52, Khumbhivadi, Near Khalapur Toll Naka, off Mumbai-Pune Expressway, Tal. Khalapur,
Dist. Raigad - Pin - 410 202 Telephone - 02192-274 206/07/08/10 Fax - 02192-274 210

Dr. Ramjee Prasad
Hon Chairman

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

Ref. No. : ViMEET / Project /CE/ 488 /2019-20

Date: 21/01/2020

To,
Takai Adoshi Road,
Honad Village,
Khopoli, Maharashtra- 410203

Subject: Permission to work under Prasol Chemicals Pvt Ltd for Final Year Project

Respected Sir/Mam,

We, the students of Vishwaniketan iMEET, Khalapur, are writing you this letter to request you to grant us permission for working in guidance with your firm for our Final Year Project.

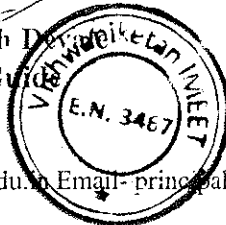
Sir, as the subject for our project is 'Waste Water Treatment by cavitation method', we require your guidance for the project and would request you to please grant us permission to work with your firm and to attend the tests you carry out on various structures.

The students in the group are as follows

SR NO	NAME	BRANCH AND YEAR	CONTACT NUMBER
1	Shilpa Thakur	CIVIL (BE)	9284219643
2	Harshada Mokal	CIVIL (BE)	8999194027
3	Akash Gadge	CIVIL (BE)	8097707071
4	Ankita Shinde	CIVIL (BE)	8879169630

Thanking You,

Prof. Rupesh D. Deshpande
Project Guide



Head of Department
Civil Engineering
Vishwaniketan's iMEET

Prof. Shilpa Deshpande
(HOD Civil Dept)

Principal
Vishwaniketan's (iMEET)

TRUE COPY



VISHWANIKETAN'S
Institute of Management Entrepreneurship & Engineering Technology [ViMEET]
Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE : EN3467

Surve, No. 52, Khumbhavi, Near Khalapur Toll Naka, on Mumbai-Pune Expressway, Tal. - Khalapur,
Dist. Raigad. Pin - 410 202. Telephone - 02192 - 274 206/07/08/10 Fax - 02192 - 274 210

Dr. Ramjee Prasad
Hon Chairman

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

Ref. No. : ViMEET / Visit / CE/483/2019-20

Date: 26/ 12 /2019

To,
The project manager,
Yashwin Hinjawadi.

Subject: About student site visit to Yashwin Hinjawadi.

Sir,

The following students of (BE Civil) 4th year, Studying in Vishwaniketans iMEET Khalapur, want to visit your construction site Yashwin Hinjawadi on 27th Dec. 2019, for their academic final year Project.

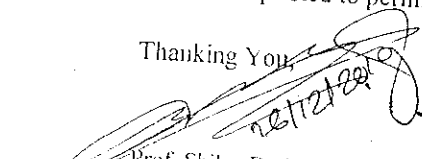
Vishwaniketans is a public trust established by professionals drawn from the industry, education and administration with excellent experience in the respective fields. The campus has been located near Navi Mumbai, at Khalapur on Mumbai- Pune expressway. This has created platform for students, teachers, researchers and professionals to adopt excellent teaching - learning practices based on project Based Learning (PBL). This will encourage entrepreneurship and finally support product-development through start-ups and empower teachers and the society by technology-solutions.

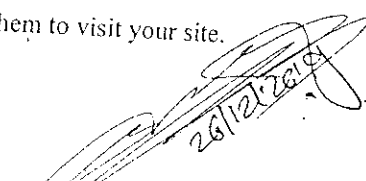
The students in the group are as follows:

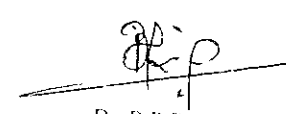
Sr. No.	Name of the students	Branch and year	Contact numbers
1	Prasenjit Salvi	Civil (BE)	9820726441
2	Jayesh Naik	Civil (BE)	9595834070
3	Rushikesh Pandhare	Civil (BE)	8087963225
4	Vilas Ughada	Civil (BE)	7767873218

You are requested to permit them to visit your site.

Thanking You,



Prof. Shilpa Deshpande
Project Guide


Prof. Shilpa Deshpande
H.O.D
Civil Engg. Dept.


Dr. B.R. Patil
Principal, ViMEET

TRUE COPY




Head of Department
Civil Engineering
Vishwaniketans iMEET


Principal
Vishwaniketans (iMEET)



VISHWANIKETAN'S
Institute of Management Entrepreneurship & Engineering Technology [VIMEET]
 Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE : EN3407

Soc. No. 52, Khambhavad, Near Kharapur Toll Naka, off Mumbai-Pune Expressway, Tal. Kharapur,
 Dist. Raigad, Pin-410 202, Telephone - 02192-274206/07/08/10, Fax - 02192-274210

Dr. Ramjee Prasad
 Hon. Chairman

Mr. Sunil Bangar
 Secretary

Dr. B. R. Patil
 Principal

No. V-IMEET/Civil/Ind. Trng /CE/482/2019-20

Date: 20 / 12 / 2019

To,

The Personal manager
 CIDCO Ltd

Sec. 10 C.B.D. Belapur - 400 604

Subject: Request to Provide "Industrial Training" to Students.

Dear Sir / Madam,

Vishwaniketan is a public trust established by professionals drawn from the industry, education and administration with excellent experience in the respective fields. The campus has been located at Khambhavad, Mumbai, on Mumbai - Pune expressway. This has created platform for students, teachers, researchers and professionals to improve their teaching - learning practices based on Project Based Learning (PBL). This will encourage entrepreneurship and naturally support product development through start-ups and empower teachers and the society by using technology solutions. The Institute has established departments Mechanical, Electrical, E&TC and Computer Engineering. We have also started have collection of activities on our campus from 2018-19. You may find more about PBL methodology (through online learning programs) and activity plan from our website. This method develops technical and life skills among students. As our institute is dedicated to PBL, we always endeavor to give practical exposure to our students so that they have a feel of actual engineering work.

The annual examination of University of Mumbai will be over by last week of December. We are looking for an opportunity to place one of our student in your esteemed Industry organization (for about 15 days to one month), of course subject to your convenience for the Industrial Training. We propose following student for the training in your Industry / Company.

S.N.	Name of Student	Year - Branch	Contact Number	Parent's Details
1	Rajkumar Sunil Pathak	2019-2020	9820941198	9820941198

We assure you that, our students will maintain professional code of conduct and abide by the rules and regulations of your organization during the project work. Kindly accord permission and issue an acceptance letter as early as possible. Prof. Heena Jain will be our liaison person and his contact no. is 9833696872. Thanks and hope for long lasting industry - institute partnership.

TRUE COPY

Principal

Vishwaniketan's (I) MEET

Head of Department
 Civil Engineering
 Vishwaniketan's I MEET



CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED

(CIN - U99999 MH 1970 SGC - 014574)

REGD. OFFICE:"NIRMAL", 2nd Floor, Nariman Point,
Mumbai - 400 021.

PHONE : 00-91-22-6650 0900

FAX : 00-91-22-2202 2509

HEAD OFFICE:CIDCO Bhavn. CBD Belapur,
Navi Mumbai - 400 614.

PHONE: 00-91-22-6791 8100

FAX : 00-91-22-6791 8166

Ref. No. CIDCO/SE (Metro-I)/2019/184

Date : 04.12.2019

To,
The Principal,
Vishwaniketan Institute of Management Entrepreneurship & Engineering Technology,
Near Khalapur Toll Naka,
Off Mumbai Pune Expressway,
At - Khalapur, Dist. Raigad

Sub :-Permission for Training in Navi Mumbai Metro Line No.1 to Engineering students.

Dear Sir/Madam,

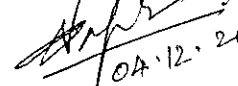
We are pleased to inform you that your request for Permission for Training from 5th December 2019 to 17th December 2019 in Navi Mumbai Metro Line No.1 to following Diploma students is accepted by the Corporation.

Sr. No.	Name of Student	Branch
1	Snehal Pradeep Wakade	Civil Engineering
2	Sanjeevani Suryakant Navale	Civil Engineering
3	Bhagyashree Mohan Waghmare	Civil Engineering
4	Sanket Santosh Chimane	Civil Engineering
5	Vaibhavi Sunil Misal	Civil Engineering

The permission is hereby granted subject to following conditions:-

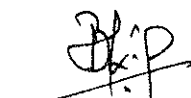
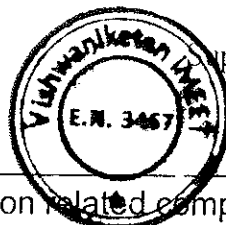

- No remuneration and any allowance will be paid by CIDCO for the above Training Programme.
- The Students will take all the safety precautions during training period.
- The college will submit Indemnity Bond in prescribed format to CIDCO, indemnifying CIDCO from any mishap, accident, happened if any to student during training.

Your's sincerely,


04.12.2019

(S. A. Nadgauda)

Superintending Engineer (Metro-I)


Principal
Vishwaniketan's (I MEET)**TRUE COPY**
Head of Department
Civil Engineering
Vishwaniketan's I MEET



VISHWANIKETAN'S
Institute of Management Entrepreneurship & Engineering Technology [ViMEET]
Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE : EN3467

Survey No. 52, Khumbhivali, Near Khalapur Toll Naka, off Mumbai Pune Expressway, Tal. - Khalapur,
Dist. Raigad - Pin - 410 202 Telephone - 02192 274 206/07/08/10 Fax - 02192 274 210

Dr. Ramjee Prasad
Hon Chairman

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

Ref. No. : ViMEET /Internship/CE/475 /2020-20

Date: 10/12/2019

To,

The City Engineer,

Navi Mumbai Municipal Corporation,

Paim Beach Road, Kille Gaothan,

CBD Belapur, Navi Mumbai,

Dear Sir,

The following students from our college studying in Third Year (T.E.) Civil Engineering branch are interested to undertake internship at your esteemed organization for Purely Learning the Civil Engineering Work and Certify after that, there will be no any type of financial or money claim of above said work.

S.N.	Name of Student	Year - Branch	Contact Number	Period of Training
1	Pranav Vilas Mhatre	TE - Civil	9326987641	16 th Dec 2020 - 5 th Jan 2021
2	Vijay Sunil Sawant	TE - Civil	8369900873	
3	Roshani Suresh Madake	TE - Civil	9987477099	

They are interested in carrying out internship in your organization and we therefore request you to grant them the necessary permission.

We request you to provide them internship certificate after the successful completion of Internship.

We also assure you that they will observe the rules and regulation of your organization and maintain complete discipline during their stay at your organization and we further state that the data/information received will not be divulged to outsiders.

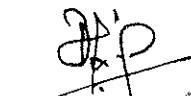
Thanking you.

(Dr. Heena Jain)

Training & Placement Officer

TRUE COPY

CC To-Executive Engineer, Belapur, NMMC.


Principal
Vishwaniketana's (ViMEET)

Head of Department

Civil Engineering
Vishwaniketana's
E.N. 3467


Head of Department
Civil Engineering
Vishwaniketana's ViMEET



VISHWANIKETAN'S
Institute of Management Entrepreneurship & Engineering Technology [ViMEET]

Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE : EN3467

Survey No. 52, Khumbhivali, Near Khalapur Toll Naka, off. Mumbai-Pune Expressway, Tal. - Khalapur,
Dist - Raigad - Pin - 410 202 Telephone - 02192 - 274 206/07/08/10 Fax - 02192 - 274 210

Dr. Ramjee Prasad
Hon Chairman

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

No. V-IMEET/Civil/Ind. Trng. / CE/480/2010-20
To, Dy. Chief Engineer (C)
Central Railway
Jui Nagar, Navi Mumbai

Date: 19 / 12 / 2010

Subject: Request to Provide "Industrial Training" to Students.

Dear Sir / Madam,

Vishwaniketans is a public trust established by professionals drawn from the industry, education and administration with excellent experience in the respective fields. The campus has been located near Navi Mumbai, at Khalapur on Mumbai - Pune expressway. This has created platform for students, teachers, researchers and professionals to adopt excellent teaching - learning practices based on Project Based Learning (PBL). This will encourage entrepreneurship and finally support product- development through start- ups and empower teachers and the society by using technology- solutions. The Institute has branches in Civil, Mechanical, Electrical, E&TC and Computer Engineering. We have also started have college of architecture on our campus from 2018-19. You may like to know more about PBL methodology (through value addition programs) and activity plan from our website. This method develops technical and life skills in our students. As our institute is dedicated to PBL, we always endeavour to give practical exposure to our students so that they have a feel of actual engineering work.

The annual examination of University of Mumbai will be over by last week of December. We are looking for an opportunity to place a few of our students in your esteemed Industry/organization (for about 15 days to one month), of course subject to your convenience, for the Industrial Training. We propose following students for the training in your Industry / Company:

S.N.	Name of Student	Year - Branch	Contact Number	Period of Training
1	PRANAY SANJAY GHASTI	TE CIVIL	7977821299	
2	ABHIJEET SOPAN GAIKWAD	SE CIVIL	9819308599	
3				
4				

We assure you that, our students will maintain professional code of conduct and abide by the rules and regulations of your organization during the project work. Kindly accord permission and issue an acceptance letter as early as possible. Prof. Sunil Bangar will be our liaison person and his contact no. is 9561285795. Thanks and hope for long-lasting industry -institute partnership.

TRUE COPY



Principal
Vishwaniketans (ViMEET)

Head of Department
Civil Engineering
Vishwaniketans ViMEET

Yours Sincerely
(Dr. B.R. Patil)
Principal



VISHWANIKETAN'S
Institute of Management Entrepreneurship & Engineering Technology [ViMEET]

Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE : EN3467

Survey No. 52, Khumbliwadi, Near Khalapur Toll Naka, Off. Mumbai-Pune Expressway, Tal. Khalapur,
Dist. Raigad. Pin. 410 202. Telephone - 02192 - 274 206/07/08/10. Fax. 02192 - 274 210

Dr. Ramjee Prasad
Hon. Chairman

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

No. V-iMEET/Civil/Ind. Trng. / CE/479/2019

Date: 13 /12/2019

To,
Eagle Infra India Ltd
Andheri East

Subject: Request to Provide "Industrial Training" to Students.

Dear Sir / Madam,

Vishwaniketan is a public trust established by professionals drawn from the industry, education and administration with excellent experience in the respective fields. The campus has been located near Navi Mumbai, at Khalapur on Mumbai – Pune expressway. This has created platform for students, teachers, researchers and professionals to adopt excellent teaching – learning practices based on Project Based Learning (PBL). This will encourage entrepreneurship and finally support product- development through start- ups and empower teachers and the society by using technology- solutions. The Institute has branches in Civil, Mechanical, Electrical, E&TC and Computer Engineering. We have also started have college of architecture on our campus from 2018-19. You may like to know more about PBL methodology (through value addition programs) and activity plan from our website. This method develops technical and life skills in our students. As our institute is dedicated to PBL, we always endeavour to give practical exposure to our students so that they have a feel of actual engineering work.

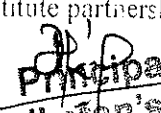
The annual examination of University of Mumbai will be over by last week of December. We are looking for an opportunity to place a few of our students in your esteemed Industry/organization (for about 15 days to one month), of course subject to your convenience, for the Industrial Training. We propose following students for the training in your Industry / Company:

S.N.	Name of Student	Year - Branch	Contact Number	Period of Training
1	Saurabh Saitawdekar	4 th - Civil	8286631205	15 days
2	Sanjiv RZa	4 th - Civil	9920138329	
3				
4				

We assure you that, our students will maintain professional code of conduct and abide by the rules and regulations of your organization during the project work. Kindly accord permission and issue an acceptance letter as early as possible. Prof. Dr. Heena Jain will be our liaison person and his contact no. is 9833696872. Thanks and hope for long-lasting industry –institute partnership.




Head of Department
Civil Engineering
Vishwaniketan's iMEET


Principal
Vishwaniketan's (iMEET)
Yours Sincerely
(Dr. B. R. Patil)
Principal
TRUE COPY



VISHWANIKETAN'S
Institute of Management Entrepreneurship & Engineering Technology [I MEET]

Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE NO. EN: 3467

Survey No. 52, Khumbhivali, Near Khalapur Toll Naka, off. Mumbai-Pune Expressway, Tal. - Khalapur,
Dist - Raigad - Pin - 410 202 Telephone - 02192 - 274 206/07/08/10 Fax - 02192 - 274 210

Dr. Ramjee Prasad
Hon Chairman

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

Ref. No. : ViMEET / Visit / CE / 139 / 2018-19

Date : 8/03/2019

To,
The Management,
Taloja CETP,
Tal. Panvel.

Subject: Permission for Project visit for TCETP Plant, Taloja, Panvel.

Respected Sir,

We would hereby like to request you to give permission for the Project of our Third Year Civil Engineering students on 11th March, 2019 for their Project on TCETP Plant, Taloja, Panvel.

This Project will be beneficial for the student to increase their knowledge and get a hands on approach of project (on TCETP Plant, Taloja, Panvel).

Vishwaniketan is a public trust established by professionals drawn from the industry, education and administration with excellent experience in the respective fields. The campus has been located in Navi Mumbai, at Khalapur on Mumbai- Pune expressway. This has created platform for students, teachers, researchers and professionals to adopt excellent teaching – learning practices based on Project Based Learning (PBL). This will encourage entrepreneurship and finally support product-development through start-ups and empower teachers and the society by technology-solutions.

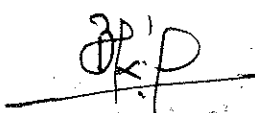
Following are the students going to visit from our institute.


1. Sameer Kulkarni
2. Kaustubh Kulkarni
3. Vikas Chavan
4. Kunal Bhatija

Please do the needful.

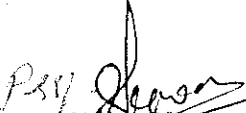
Thanking you.

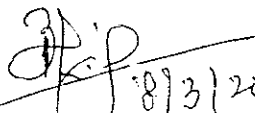



Principal
Vishwaniketan's (I MEET)


Dr. Suman Rawat
Project Guide




Dr. Shilpa Kewate
H.O.D Civil Dept.
Head of Department


Dr. B.R. Patil
Principal, ViMEET



VISHWANIKETAN'S
Institute of Management Entrepreneurship & Engineering Technology [iMEET]

Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE NO. EN: 3467

Survey No. 52, Khumbhivali, Near Khalapur Toll Naka, off. Mumbai-Pune Expressway, Tal. - Khalapur,
Dist - Raigad - Pin - 410 202 Telephone - 02192 - 274 206/07/08/10 Fax - 02192 - 274 210

Dr. Ramjee Prasad
Hon Chairman

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

No. V-iMEET/Civil/Ind. Trng. / CE/478/ 2019

Date: 12 / 12 / 2019

To,
R.C.F. company
Alibaug, Maharashtra
pin code: 402201.

Subject: Request to Provide "Industrial Training" to Students.

Dear Sir / Madam,

Vishwaniketan is a public trust established by professionals drawn from the industry, education and administration with excellent experience in the respective fields. The campus has been located near Navi Mumbai, at Khalapur on Mumbai - Pune expressway. This has created platform for students, teachers, researchers and professionals to adopt excellent teaching - learning practices based on Project Based Learning (PBL). This will encourage entrepreneurship and finally support product- development through start- ups and empower teachers and the society by using technology- solutions. The Institute has branches in Civil, Mechanical, Electrical, E&TC and Computer Engineering. We have also started have college of architecture on our campus from 2018-19. You may like to know more about PBL methodology (through value addition programs) and activity plan from our website. This method develops technical and life skills in our students. As our institute is dedicated to PBL, we always endeavour to give practical exposure to our students so that they have a feel of actual engineering work.

The annual examination of University of Mumbai will be over by last week of December. We are looking for an opportunity to place a few of our students in your esteemed Industry/organization (for about 15 days to one month), of course subject to your convenience, for the Industrial Training. We propose following students for the training in your Industry / Company:

S.N.	Name of Student	Year - Branch	Contact Number	Period of Training
1	Rutuja Santosh Nandgaonkar	T.E- civil	9112019883	12/12/19 to 5/1/20
2	Sanjana Sandesh Patil	TE-civil	9623443406	
3				
4				

We assure you that, our students will maintain professional code of conduct and abide by the rules and regulations of your organization during the project work. Kindly accord permission and issue an acceptance letter as early as possible. Prof. Dr. Heena Jain will be our liaison person and his contact no. is 9833696872. Thanks and hope for long-lasting industry -institute partnership.



Principal
Vishwaniketan's (iMEET)
Head of Department
Civil Engineering
Vishwaniketan's iMEET

Sep

Yours Sincerely

(Dr. B.R. Patil)

Principal

TRUE COPY



VISHWANIKETAN'S
Institute of Management Entrepreneurship & Engineering Technology [iMEET]

Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE NO. EN: 3467

Survey No. 52, Khumbhivali, Near Khalapur Toll Naka, off. Mumbai-Pune Expressway, Tal. - Khalapur,
Dist - Raigad - Pin - 410 202. Telephone - 02192 - 274 206/07/08/10 Fax - 02192 - 274 210

Dr. Ramjee Prasad
Hon Chairman

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

No. V-iMEET/Civil/Ind. Trng. / CE/477/2019

Date: 11 / 12 / 2019

To,

B.G. Shrike Construction.
Tech. PVT. LTD. CIDCO
Ghansoli, Navi Mumbai

Subject: Request to Provide "Industrial Training" to Students.

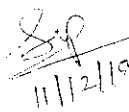

Dear Sir / Madam,

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The annual examination of University of Mumbai will be over by last week of December. We are looking for an opportunity to place a few of our students in your esteemed Industry/organization (for about 15 days to one month), of course subject to your convenience, for the Industrial Training. We propose following students for the training in your Industry / Company:

S.N.	Name of Student	Year - Branch	Contact Number	Period of Training
1	Sachin Tanaji Bugade	TE - Civil	9594701149	6-12-19
2	Abhay Vithaba Shirsat	TE - Civil	8104817735	TO
3				30-12-19
4				


We assure you that, our students will maintain professional code of conduct and abide by the rules and regulations of your organization during the project work. Kindly accord permission and issue an acceptance letter as early as possible. Prof. Heena Jain will be our liaison person and his contact no. is 9833696872. Thanks and hope for long-lasting industry - institute partnership.


11/12/19

Principal
Vishwaniketan's (iMEET)


Head of Department
Civil Engineering
Vishwaniketan's iMEET



TRUE COPY


9/12/2019
Principal



VISHWANIKETAN'S
Institute of Management Entrepreneurship & Engineering Technology [i MEET]
Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE NO. EN: 3457

Survey No. 52, Khumbhivali, Near Khalapur Toll Naka, off. Mumbai-Pune Expressway, Tal. - Khalapur,
Dist - Raigad - Pin - 410 202 Telephone - 02192 - 274 206/07/08/10 Fax - 02192 - 274 210

Dr. Ramjee Prasad
Hon Chairman

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

No. V-iMEET/Civil/Ind. Trng./CE/475/2019-20

Date: 10/12/2019

To,
THE CITY ENGINEER,
NAVI MUMBAI MUNICIPAL CORPORATION,
PALM BEACH ROAD, KILLE GAOTHAN,
CBD BELAPUR, NAVI MUMBAI,

Subject: Request to Provide "Industrial Training" to Students.

Dear Sir / Madam,

Vishwaniketan is a public trust established by professionals drawn from the industry, education and administration with excellent experience in the respective fields. The campus has been located near Navi Mumbai, at Khalapur on Mumbai - Pune expressway. This has created platform for students, teachers, researchers and professionals to adopt excellent teaching - learning practices based on Project Based Learning (PBL). This will encourage entrepreneurship and finally support product- development through start- ups and empower teachers and the society by using technology- solutions. The Institute has branches in Civil, Mechanical, Electrical, E&TC and Computer Engineering. We have also started have college of architecture on our campus from 2018-19. You may like to know more about PBL methodology (through value addition programs) and activity plan from our website. This method develops technical and life skills in our students. As our institute is dedicated to PBL, we always endeavour to give practical exposure to our students so that they have a feel of actual engineering work.


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S.N.	Name of Student	Year - Branch	Contact Number	Period of Training
1	PRANAV. VILAS. MHATRE	TE - CIVIL	9326987641	13 th DEC to 31 st DEC
2	VIJAY. SUNIL. SAWANT	TE - CIVIL	8369900873	
3	ROSHANI. SURESH. MALAKE	TE - CIVIL	9987477099	
4				

We assure you that, our students will maintain professional code of conduct and abide by the rules and regulations of your organization during the project work. Kindly accord permission and issue an acceptance letter as early as possible. Prof. HEENA JAIN will be our liaison person and his contact no. is 9833696372. Thanks and hope for long-lasting industry -institute partnership.




Principal
Vishwaniketan's (iMEET)


Head of Department
Civil Engineering
Vishwaniketan's iMEET


TRUE COPY
Yours Sincerely
(Dr. B.R. Patil)
Principal

J. Kumar Infraprojects Ltd.

We dream ... So we achieve...

Regd. Off.: 16-A, Andheri Industrial Estate, Veera Desai Road, Andheri (W), Mumbai - 400053. INDIA
Ph.: +91-22-6774 3555 Fax+91-22-2673 0814. E-mail : info@jkumar.com Website : www.jkumar.com
CIN No. : L74210MH1999PLC122886



Ref: JKIL/HR/INTERN/218

Date: 04/12/2019

To,
Vishwaniketan's i-MEET, Khalapur

Dear Sir,

This is with reference to the bonafied certificate issued in the name of
Mr. Vivek Sunil Kamble a student of Vishwaniketan's i-MEET, Khalapur

I am pleased to inform you that his request of permission to undertake
06 Weeks Project Training at our site "**Mumbai Metro Line 03 Package 06**" is hereby accepted which is scheduled to commence on **05th December 2019**. We would not be liable for any stipend, accommodation or any kind of claim during this training tenure.

Further, he may please be directed to take all safety measures during site visit and shall adhere to all the rules & procedures of the company.

With regards,

Yours Sincerely,

For J. Kumar Infraprojects Ltd.

Authorized Signatory

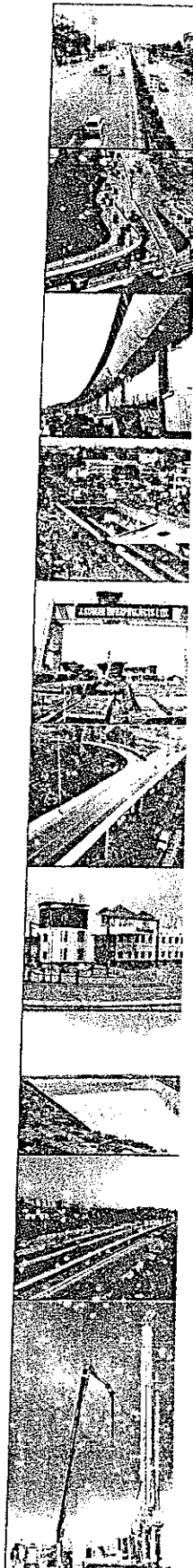


Head of Department
Civil Engineering
Vishwaniketan's iMEET

Principal
Vishwaniketan's (i MEET)



TRUE COPY



राष्ट्रीय केमिकल्स एण्ड फर्टिलाइजर्स लिमिटेड

(भारत सरकार का उपक्रम
साथ बढ़ते समृद्धि की ओर)



Rashtriya Chemicals & Fertilisers Limited

(Government of India Undertaking)
Let us grow together

1294

ISO 9001-2008, ISO 14001-2004, CHSAS 18001-2007 Compliant

थळ इकाई, थळ, तालुका अलिबाग, जिला रायगड (महाराष्ट्र) पिन - 402 208.

THAL UNIT, THAL, TALUKA ALIBAG, DIST. RAIGAD (MAHARASHTRA) PIN - 402 208.

• फॅक्स : 02141 - 238206 / 238091 • FAX : 02141-238206 / 238091

Ref No : Thal/TRG/CM/VT-Civil/Dec-19 Website: www.rcfltd.com CIN L24119MH1978GOIG20185

Date : 16/12/2019

To,

Dr. B.R. Patil,

Principal

Vishwaniketan's Institute of Management Entrepreneurship & Engineering Technology

Survey No. 52, Khumbhivali, Near Khalapur Toll Naka

Off. Mumbai - Pune Expressway, Tal- Khalapur.

Dist.- Raigad- Pin- 410 202

MS- India

(Attn.- Dr. Heena Jain)

SUB:- In-plant training to Vocational Trainees (Civil Engg.)

REF:- Your Letter

Ref.No:- V-iMEET/Civil/Ind.Trng/478/2019

Dated: 12/12/2019

Dear Sir,

With reference to your e-mail mentioned above dated 12/12/2019, we would be happy to provide In-plant Training/Industrial Training/Internship facility to the Third Year (Civil Engg.) following student/s on acceptance of the terms and conditions mentioned below from 01/01/2020 to 15/01/2020 (15 days).
Training Timing - (8.45 a.m. - 4.45 p.m. Sunday- Holiday)

Sr.No.	Name (Mr/Ms.)
01	Ruturaj S. Nandgaonkar
02	Sanjana S. Patil

Terms and Conditions

1. Training Charges Rs.1200/- (inclusive 18% GST- w.e.f. July -17) per student upto one month by Demand Draft drawn in favour of R. C. F. Ltd, payable at SBI Thal-Vaishet
2. Student/s must comply with the rules, regulations, discipline and timings stipulated during the training period by the company.
3. Student/s must comply with the rules, regulations, discipline and timings stipulated during the training period by the company.
4. No stipend will be paid to the student/s & no availability of accommodation in RCF Hostel, but it can be made available in Holiday home at Kihim @Rs.100/- per day per student.
5. Student/s will bear medical charges if they receive medical treatment during their period with us.
6. Student/s should bring In-plant training/Industrial Training requirements to facilitate learning.
7. Student/s should bring three (3) passport size photograph & his /her/ their college Identity Card, while coming for training for the temporary gate pass arrangement.
8. Student/s should wear safety shoes during training period.
9. No camera or mobile camera is allowed in the factory premises during training period.

The above terms and conditions should be conveyed to the respective student/s before coming for training.

Thanking You

Vishwaniketan's Institute of Management
Entrepreneurship & Engineering Technology (IMEET)

Record No. 2038

Date: 19/12/2019

You're Faithfully

(D. M. Ranteke)

Chief Manager (HRD)

Ph. No. (02141) 238012-2080/9820560222

मुख्य कार्यालय : प्रियदर्शिनी, ईस्टर्न एक्सप्रेस हायवे, सायन मुंबई - 400 022.

REGD. Office: PRIYADARSHINI, EASTERN EXPRESS HIGHWAY, SION, MUMBAI-400 022.

हम हिन्दी में पत्राचार का स्वागत करते हैं

TRUE COPY

Head of Department
Civil Engineering
Vishwaniketan's IMEET



To
HOD (Civil Engg.)
Dr. B.R. Patil

Mumbai Metropolitan Region Development Authority
Bandra-Kurla Complex
Mumbai-400051

Administration Division

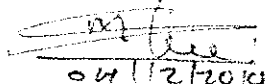
No.A/EST-23/2850/2019

Date : 04 December, 2019

OFFICE ORDER

Mr. Rahul Shankar Jadhav, Third Year in B.E., Civil Engineer Vishwaniketan's Institute Of Management Entrepreneurship & Engineering Technology, Khalapur. is hereby appointed w.e.f 01/12/2019 to 31/12/2019 for Internship in Engineering Division of MMRDA, Bandra for the period of 1 Month on following terms and conditions :-

1. Training will not exceed 1 Month from date of joining.
 2. He will have to work on the assignment given by the Chief Engineer, Engineering Division.
 3. He will have arrange for accommodation and transport on his own.
 4. A presentation and report of the work done by him will have to be submitted to the Chief Engineer, Engineering Division in the last week of training schedule.
 5. A record of attendance will be maintained by the Engineering Division.
2. This order issued with the approval of the Joint Metropolitan Commissioner.

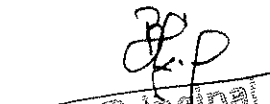

04/12/2019
(M.S.BHOI)
Personnel Officer


To,
Mr. Rahul Shankar Jadhav,
Third Year B.E. Civil,
Vishwaniketan's Institute Of Management
Entrepreneurship & Engineering Technology,
Khalapur

Copy to :-

1. Principle,
Vishwaniketan's Institute Of Management
Entrepreneurship & Engineering Technology, Khalapur.
2. Shri. Thube, Chief Engineer, Engineering Division.
3. Chief Account Officer, F&A Division
4. Administrative Officer
5. The Librarian, MMRDA
6. Office Order File
7. Training File




Principal
Vishwaniketan's (I) MEET


Head of Department
Civil Engineering
Vishwaniketan's (I) MEET

TRUE COPY

EHV PROJECT CUM O&M ZONE, VASHI
CIN No. U40109MH2005SGC153646

OFFICE OF THE CHIEF ENGINEER,
4TH FLOOR, MSEB ADM. BLDG. PLOT NO. 5, SECTOR-17,
VASHI, NAVI MUMBAI-400703.
PHONE NO (022) 27666010 (P) / 27665994 (O) / 27665984 (O) FAX No. : 27662055
E-mail: eevashi@mahatransco.in / agmhr7000@mahatransco.in

CE/EHV/PC O&M/ZONE/VSH/HR/NO 01749 DATE: 17 NOV 2020

To,

The Principal
Vishwaniketan's Institute of Management
Entrepreneurship & Engineering Technology (ViMEET),
Sr.No.52, Kumbhivati, Near Khalapur Toll Naka,
Off Mumbai-Pune Expressway, Tal. Khalapur,
Dist. Raigad-410 202.
Email ID: - principal.vimeet@vishwaniketan.edu.in

Sub: - Permission for one-month Internship training at 220KV Nerul S/stn., under EHV O&M Dn.,
Bhandup w.e.f. 17.11.2020 to 16.12.2020 in our organization.

Dear Sir/Madam,

In connection to the above subject, this is to inform you that, permission for one month Internship training is hereby granted to the student as mentioned below.

Sr. NO.	Enrollment No.	Name of Student	Name of Substation	Period of Industrial training
1	20220190315	Miss. Sonali Avinash Khopkar	220KV Nerul S/s. Under EHV O&M Dn. Bhandup	17.11.2020 to 16.12.2020

In view of the above, Third Year B. Tech. Electrical Engineering student of your college is permitted for one-month Internship training w.e.f. 17.11.2020 to 16.12.2020 in our organization i.e. at 220KV Nerul S/stn., under EHV O&M Dn. Bhandup. Guide allocated for the student for one-month training is as follows:

1] Mrs. Shilpa V. Pillai, Dy. Executive Engineer (Trans)
220 KV Nerul Substation

The concerned student to report to the above guide daily and get attendance marked. Also, take necessary precaution and ensure that safe distance from live equipment shall be maintained. Student should carry the Identity Card daily.

Further, the student should submit training report to the Executive Engineer, EHV O&M Dn., Bhandup through the Dy. Executive Engineer (Trans), 220KV Nerul Substation after completion of one month Internship training for issuing completion certificate to her.

Yours faithfully,


(Nasir Quadri)
CHIEF ENGINEER
EHV PC O&M Zone, Vashi.

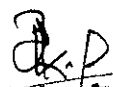
Copy to: -

1. The Superintending Engineer, MSETCL, EHV O&M Circle, Kalwa.
2. The Executive Engineer, MSETCL, EHV O&M Dn. Bhandup.
3. The Executive Engineer (Adm.), MSETCL, EHV PC O&M Zone, Vashi.

Regd. Office :- "Prakashganga", Plot No.C-19 "E" Block, Bandra-Kurla Complex, Bandra (E), Mumbai-400 051.
D:HRD/training order student/Pg.250

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Principal
Vishwaniketan's (I MEET)

CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED

(CIN - U99999 MH 1970 SGC - 014574)

REGD. OFFICE:

"NIRMAL", 2nd Floor, Nariman Point,
Mumbai - 400 021.

PHONE : 00-91-22-6650 0900

FAX : 00-91-22-2202 2509

HEAD OFFICE:

CIDCO Bhavan, CBD Belapur,
Navi Mumbai - 400 614.

PHONE: 00-91-22-6791 8100

FAX : 00-91-22-6791 8166


Ref. No. CIDCO/EE(Elect-HSG)/2021/ 1802-

Date : 17/08/2021

TO WHOMESEVER IT MAY CONCERN

Mr. Sandesh Shankar Nimble is student of final year Electrical Engineering in Vishwaniketan's iMEET, Khalapur. He has undertaken internship training in CIDCO Ltd. for the period of 02/08/2021 To 09/08/2021. During his training, he had visited various site works of EE(Elect-HSG) division of CIDCO Ltd. during above period to complete the internship training.

We extend our best wishes to him for his career.


(Y.M.S. MAPARA)

Executive Engineer (Elect-HSG)

6th floor, Raigad Bhavan,

Sec-11, CBD, Belapur,

Navi Mumbai-400614

Email: eeelect.hsg@gmail.com

✓ To,

Mr. Sandesh Shankar Nimble
Final Year Engineering Student,
Vishwaniketan iMEET.

C.c. To: The Principal,
Vishwaniketan's iMEET
Survey No.52, Kumbhivali,
Near Khalapur Toll Nakka,
Off. Mumbai-Pune Expressway,
Tal- Khalapur, Dist- Raigad.


Principal

Vishwaniketan's (iMEET)

In case of any corruption related complaints, please visit :
www.cidco.maharashtra.gov.in Click on Dakshata link

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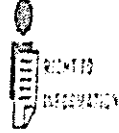
Scanned with CamScanner





MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.

From,
Office of The Executive Engineer,
EHV (O&M) Division, Panvel
Takka Colony, Panvel. Dist: Raigad- 410 206.
CIN No. : U40109MH2005SGC153646
Contact No : 022- 2745 3283 (O)/022 -2746 5410 (P)
Fax No : 022-2745 8863
Email ID : eepanvelhr1@gmail.com/
dymgrhr7210@mahatransco.in
Web site : www.mahatransco.in




Ref.No. : EE/EHV/O&M/DIVN/PNL/HR/

F.No/No 0 0 0 8 7 DATE:- 2 1 JAN 2021

CERTIFICATE

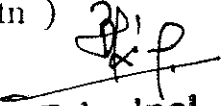
This is to certify that Mr. Preshit Prakash Gadge as per CE/EHV/PC/O&M /ZONE /VSH/HR No. 01683 dt. 06.11.2020 has completed 30 days Internship training at 220 KV ONGC Sub-Stn. under EHV (O&M) Division Panvel .


(M.C. Joshi)
Executive Engineer
EHV (O&M) Dn.Panvel

To,
Mr. Preshit Prakash Gadge
Internship training
(Through : - Addl. Executive Engineer, 220 KV ONGC S/Stn)



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Principal
Vishwaniketan's (I MEET)



YASHASWI

NEEM Trainee Reg.No.: YAS110733

NEEM TRAINEE CONTRACT LETTER

Date :- 21-Jan-2021

To,
Mr. Prathmesh Mhatre,
Raigad,
Raigad, Maharashtra,
India - 402107.

Dear Mr. Prathmesh,

With reference to your application with us for NEEM Trainee, we are pleased to engage you as NEEM Trainee in "Huhtamaki -PPL, Khopoli, Raigad" subject to the following terms and conditions

1. The Period of training shall be 36 months with start date 21-Jan-2021 and end date 20-Jan-2024.
2. You will be paid consolidated monthly stipend of Rs. 11,000 /-
3. It shall not be obligatory on the part of the Yashaswi as NEEM Facilitator to offer any employment to the apprentices on successful completion of period of training in his / her establishment nor shall it be obligatory on the part of the NEEM Trainee to accept any employment under the employer. As NEEM Trainee undergoing Training in an establishment you shall be a trainee and not a worker and as such the provisions of any law with respect to a labourer or work shall not apply to or in relation to you.
4. As NEEM Trainee you shall be liable to abide by the rules and regulations of NEEM in all matter of conduct discipline and safety and carry out all lawful orders of the establishment.
5. As NEEM Trainee you shall learn your subject field conscientiously and diligently and attend to practical and instructional classes regularly.
6. As NEEM Trainee you shall maintain a record of your work during the period of the NEEM Training in a proforma prepared and approved by Yashaswi as NEEM Facilitator
7. When the contract of Training is terminated for failure on your part to carry out the terms of contract, you shall refund to the Yashaswi as NEEM Facilitator. In such event, you shall not be entitled to enter into another contract of training under the National Employability Enhancement Mission (NEEM)
8. The Contract of Training can be terminated without compensation payment to the NEEM Trainee
 - i. If you secure gainful employment (on production of copy of the appointment letter) and
 - ii. If you are unable to continue training on medical grounds (on production of a certificate to this effect from a medical officer not below the rank of a Civil Surgeon/ surgeon attached to any Government Hospital).
 - iii. Absent from on the job training for more than 14 days without permission
 - iv. Any kind of disciplinary issue
 - v. Any activity which is against the company where you are getting on the job training or against Yashaswi as NEEM facilitator.

YASHASWI ACADEMY FOR SKILLS

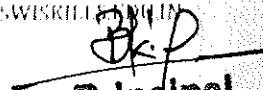
YASHASWI HOUSE, LANE NO 15, PRABHAT ROAD, PUNE - 411 004, MAHARASHTRA, INDIA.

T: +91 20 67492727 | E: INFORMATION@YASHASWI.EDU.IN | W: WWW.YASHASWISRIILS.COM.IN

CIN: U00203PN2014NPL151000



TRUE COPY


Principal
Vishwaniketan's (I MEET)

20th July 2021

TO WHOM IT MAY CONCERN

This is to certify that **Prathama Vidyadhar Deshpande** bearing code: **IW21HRD/AA001604** has successfully completed a internship with **IFORTIS WORLDWIDE** as a **Corporate Ambassador** in the Marketing Department from **31/05/2021** to **16/07/2021**.

Top Skills Covered:

- Sales funnel
- Creation of key visuals & presentations
- Promotion: Integrated Marketing Communication
- Comprehensive knowledge
- Segmentation & Targeting
- Networking & Time management
- Consumer Behaviour

Besides showing high comprehension capacity, managing assignments with the utmost expertise and exhibiting maximal efficiency, he/she has also maintained an outstanding professional demeanor and showcased excellent moral character throughout the internship period.

We hereby certify that the candidate's overall work is **good** to the best of our knowledge.

Wishing the candidate all the best for his/her future endeavors.

For **IFORTIS WORLDWIDE**,



Chief Executive Officer

AMERICAN RULER PRIVATE LIMITED
No. 704, Kuruvikulam KN, Sankarankovil,
Tirunelveli, Tamilnadu,
INDIA - 627 754.


Principal
Vishwaniketan's (I MEET)




Head of Department
Electronics & Tele-communication Engineering
Vishwaniketan's iMEET

Registered Office: No.704, Kuruvikulam KN, Sankarankovil TK, Tirunelveli, Tamilnadu - 627754 (INDIA)

CIN: U18109TN2021PTC143811 | **GSTIN:** 33AAVCA2781N1Z1

Email: info@ifortisworldwide.com | relations@ifortisworldwide.com

TRUE COPY

20th July 2021

TO WHOM IT MAY CONCERN

This is to certify that **Apurva Vidyadhar Deshpande** bearing code: **IW21HRD/AA001609** has successfully completed a internship with **IFORTIS WORLDWIDE** as a **Corporate Ambassador** in the Marketing Department from **31/05/2021** to **16/07/2021**.

Top Skills Covered:

- Sales funnel
- Creation of key visuals & presentations
- Promotion: Integrated Marketing Communication
- Comprehensive knowledge
- Segmentation & Targeting
- Networking & Time management
- Consumer Behaviour

Besides showing high comprehension capacity, managing assignments with the utmost expertise and exhibiting maximal efficiency, he/she has also maintained an outstanding professional demeanor and showcased excellent moral character throughout the internship period.

We hereby certify that the candidate's overall work is **good** to the best of our knowledge.

Wishing the candidate all the best for his/her future endeavors.

For **IFORTIS WORLDWIDE**,




Chief Executive Officer

AMERICAN RULER PRIVATE LIMITED
No.704, Kuruvikulam KN, Sankarankovil,
Tirunelveli, Tamilnadu,
INDIA - 627 754.

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Principal
Vishwaniketan's (I MEET)



Head of Department
Electronics & Tele-communication Engineering
Vishwaniketan's IMEET

Registered Office: No.704, Kuruvikulam KN, Sankarankovil TK, Tirunelveli, Tamilnadu - 627754 (INDIA)

CIN: U18109TN2021PTC143811 | **GSTIN:** 33AAVCA2781N1Z1

Email: info@ifortisworldwide.com | relations@ifortisworldwide.com