



# Swami Vivekanand College of Engineering

(Approved by: AICTE, New Delhi • Affiliated to RGPV, Bhopal and DAVV, Indore • Recognised by : DTE Govt. of MP)

Campus : Khandwa Road, Indore-452020 (M.P.) Phone : +91- 07324-405000

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## Declaration Metric 1.3.1

I declare that all the data, pictures, reports and other information enclosed in the criteria are authentic to the best of my knowledge.

Criteria In-charge  
Dr. Megha Soni



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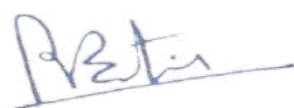
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# **1.RGPV University Syllabus**

New Scheme Based On AICTE Flexible Curricula

Civil Engineering, III-Semester

CE304 Building Planning & Architecture

**UNIT-I**

Drawing of Building Elements- Drawing of various elements of buildings like various types of footing, open foundation, raft, grillage, pile and well foundation, Drawing of frames of doors, window, various types of door, window and ventilator, lintels and arches, stairs and staircase, trusses, flooring, roofs etc.

**UNIT-II**

Building Planning- Classification of buildings, Provisions of National Building Codes and Rules, Building bye-laws, open area, Setbacks, FAR terminology, Design and drawing of Building, Design concepts and philosophies, Preparing sketch plans and working drawings of various types of buildings like residential building, institutional buildings and commercial buildings, site plans, presentation techniques, pictorial drawings, perspective and rendering, model making, introduction to computer aided design and drafting, Applying of principle of architectural composition (i.e. unity, contrast, etc.), Principles of planning, orientation in detailed drawings.

**UNIT-III**

Building Services- Introduction of Building Services like water supply, sewerage and drainage systems, sanitary fittings and fixtures, plumbing systems, principles of internal & external drainage systems, principles of electrification of buildings, intelligent buildings, elevators & escalators their standards and uses, air-conditioning systems, fire-fighting systems, building safety and security systems, ventilation and lightening and staircases, fire safety, thermal insulation, acoustics of buildings.

**UNIT-IV**

Principles of architectural design- Definition of architecture, factors influencing architectural development, characteristics features of style, historic examples, creative principles.

Principles of architectural composition- Unity, balance, proportion, scale, rhythm, harmony, Accentuation and contrast.

Organising principles in architecture- Symmetry, hierarchy, axis, linear, concentric, radial, and asymmetric grouping, primary and secondary masses, Role of colour, texture, shapes/ forms in architecture.

Architectural space and mass, visual and emotional effects of geometric forms, space activity and tolerance space. Forms related to materials and structural systems.

Elements of architecture : Functions – Pragmatic utility, circulatory function, symbolic function, Physiological function. Structure – Physical structure, Perceptual structure. Space in architecture Positive and negative space. Aesthetics: Visual perception. Protective: Protection from climate and other elements, architecture a part of the environment. Comfort factors.

## UNIT-V


Perspective Drawing and Town Planning- Elements of perspective drawing involving simple problems, one point and two point perspectives, **energy efficient buildings.** Concepts of master plan, structure plan, detailed town planning scheme and action plan, estimating future needs - planning standards for different land use, allocation for commerce, industries, public amenities, open areas etc., planning standards for density distributions, density zones, planning standards for traffic network, standard of roads and paths, provision for urban growth, growth models, plan implementation, town planning legislation and municipal acts, **panning of control development schemes, urban financing, land acquisition, slum clearance schemes, pollution control aspects**


### References Books:

1. Shah, Kale & Patki; Building Design and Drawing; TMH
2. Malik & Meo; Building Design and Drawing
3. W B Mckay, Orient Blackswan Building Construction Vol 1 -4, Pearson
4. Gurucharan Singh and Jagdish Singh, Building Planning, Designing and Scheduling, Standard Publishers Distributors.
5. Layal JS, Dongre A, Building Design and Drawing, SatyaPrakashan
6. Ghose D.N., Civil Engineering Design and Drawing, CBS publisher
7. Das B M, Principles of Foundation Engineering, Cengage Learning.
8. Agrawal S. C., Architecture and Town Planning, Dhanpat Rai & Co.
9. S.C. Rangwala, Town Planning, Charotar Publishing House.
10. Lewis Keeble, Principles and Practice of Town and Country Planning.
11. Rame Gouda, Principles & Practices of Town Planning, University of Mysore, Manasa Gangotri.

### List of Experiments

1. Sketches of various building components.
2. Drawing of various building components containing doors, windows ventilators, lintels and arches stairs foundations etc.
3. Drawings for services and interiors of buildings.
4. Drawings containing detailed planning of one/two bed room residential building (common to all student)
5. Drawing of residential and institutional building (Each student performs a different drawing).
6. Use of Auto CAD for preparation of drawings.

  
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**RAJIV GANDHI PROUDYOGIKI VISHWA VIDYALAYA, BHOPAL**

**New Scheme Based On AICTE Flexible Curricula**

**Civil Engineering, III-Semester**

**CE306 Study of Historical & Ancient Civil Engineering Practices**

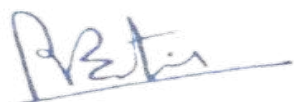
**Course Objective-** To understand study the various aspects of civil engineering practices in ancient and historical structures.

- Course Contents –**
1. General Study of ancient monuments e.g. Forts, Bridges, Buildings and various other civil engineering related structures.
  2. Environmental practices adopted in construction of historical structure during ancient/medieval period.
  3. Construction techniques and materials used in historical structures.
  4. Various planning aspects adopted in historical structures.
  5. Visit of various historical structures and museums to understand history of civil engineering practices.

**List of Practicals:-**

1. Detailed study report on various aspects e.g. environmental practices, constructions techniques and materials, planning etc. of any one important ancient structure alongwith relevant sketches/drawings etc. and its presentation before departmental committee.

  
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**New Scheme Based On AICTE Flexible Curricula**

**Civil Engineering, VI-Semester**

**CE602- Environmental Engineering-I**

**Environmental Engineering-I**

**Unit – I**

Estimation of ground and surface water resources. quality of water from different sources, demand & quantity of water, fire demand, water requirement for various uses, fluctuations in demand, forecast of population.

**Unit – II**

Impurities of water and their significance, water-borne diseases, physical, chemical and bacteriological analysis of water, water standards for different uses. Intake structure, conveyance of water, pipe materials, pumps - operation & pumping stations.

**Unit – III**

Water Treatment methods-theory and design of sedimentation, coagulation, filtration, disinfection, aeration & water softening, modern trends in sedimentation & filtration, miscellaneous methods of treatment.

**Unit – IV**


Sewerage schemes and their importance, collection & conveyance of sewage, storm water quantity, fluctuation in sewage flow, flow through sewer, design of sewer, construction & maintenance of sewer, sewer appurtenances, pumps & pumping stations.


**Unit – V**

Characteristics and analysis of waste water, recycles of decomposition, physical, chemical & biological parameters. Oxygen demand i.e. BOD & COD, TOC, TOD, Th OD, Relative Stability, population equivalent, instrumentation involved in analysis, natural methods of waste water disposal i.e. by land treatment & by dilution, self purification capacity of stream, Oxygen sag analysis.

**Reference Books: -**

1. Water Supply Engineering by B.C. Punmia - Laxmi Publications (P) Ltd. New Delhi
2. Water Supply & Sanitary Engg. by G.S. Birdi - Laxmi Publications (P) Ltd. New Delhi
3. Water & Waste Water Technology by Mark J.Hammer - Prentice - Hall of India, New Delhi
4. Environmental Engineering - H.S. Peavy & D.R.Rowe-Mc Graw Hill Book Company, New Delhi
5. Water Supply & Sanitary Engg. by S.K. Husain
6. Water & Waste Water Technology - G.M. Fair & J.C. Geyer
7. Relevant IS

  
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**Civil Engineering, VI-Semester**

**Departmental Elective CE 603(A) Water Resource Engineering**

**Unit - I**

**Irrigation water requirement and Soil-Water-Crop relationship:** Irrigation, definition, necessity, advantages and disadvantages, types and methods. Irrigation development. Soils - types and their occurrence, suitability for irrigation purposes, wilting coefficient and field capacity, optimum water supply, consumptive use and its determination. Irrigation methods surface and subsurface, sprinkler and drip irrigation. Duty of water, factors affecting duty and methods to improve duty, suitability of water for irrigation, crops and crop seasons, principal crops and their water requirement, crop ratio and crop rotation, intensity of irrigation.

**Unit - II**

**Ground Water and Well irrigation:**

Confined and unconfined aquifers, aquifer properties, hydraulics of wells under steady flow conditions, infiltration galleries. Ground water recharge-necessity and methods of improving ground water storage. Water logging-causes, effects and its prevention. Salt efflorescence causes and effects. Reclamation of water logged and salt affected lands. Types of wells, well construction, yield tests, specific capacity and specific yield, advantages and disadvantages of well irrigation.

**Unit-III**

**Hydrology:** Hydrological cycle, precipitation and its measurement, recording and non recording rain gauges, estimating missing rainfall data, rain gauge net works, mean depth of precipitation over a drainage area, mass rainfall curves, intensity-duration curves, depth-area duration curves, Infiltration and infiltration indices, evaporation stream gauging, run off and its estimation, hydrograph analysis, unit hydrograph and its derivation from isolated and complex storms, S-curve hydrograph, synthetic unit hydrograph.

**Unit - IV**

**Canals and Structures:** Types of canals, alignment, design of unlined and lined canals, Kennedy's and Lacey's silt theories, typical canal sections, canal losses, lining-objectives, materials used, economics. Introductions to Hydraulic Structures viz. Dams, Spillways, Weirs, Barrages, Canal Regulation Structures.

**Unit-V**

**Floods:** Types of floods and their estimation by different methods, probability and frequency analysis, flood routing through reservoirs and channels, flood control measures, economics of flood control.



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New Scheme Based On AICTE Flexible Curricula

Civil Engineering, VI-Semester

Open Elective CE 604(C) Environmental Impact Assessment

**Environmental Impact Assessment**

**UNIT-I**

Concept of EIA : Introduction of EIA, Utility and scope of EIA, Significant Environmental Impacts, Stage of EIA, Environmental Inventory, Environmental Impact Statement (EIS)

**UNIT-II**

Methods of Impact Identification : Environmental Indices and indicators for describing the affected environment, matrix methodologies, network, checklist, and other method.

**UNIT-III**

Impact analysis : Framework, statement predication and assessment of impact of air, water, noise and socio-economic environment.

**UNIT-IV**


Preparation of written documentation : Initial planning phase, detailed planning phase, writing phase, organizing relevant information, co-ordination of team writing effort.

**UNIT-V**

Public Participation in Environmental Decision making : Basic definitions, Regulatory requirements, Advantages & disadvantages of Public Participation, Selection of Public participation techniques, Practical considerations for implementation.



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**New Scheme Based On AICTE Flexible Curricula**

**Civil Engineering, IV-Semester**

**CE405 ENGINEERING GEOLOGY & REMOTE SENSING**

**Unit 1:** Introduction and physical geology: branches application and scope of geology, age and parts of the earth, weathering of rocks, geological action of river, ground water, sea and oceans, Concept and causes of earthquakes and volcanoes.

**Unit 2:** Mineralogy and crystallography: fundamentals of mineralogy, physical properties, study of common rock forming minerals and ore minerals, importance to civil engineering, and element of crystals and introduction to crystal systems.

**Unit 3:** Petrology: rock cycle, composition, classification and structures of igneous, sedimentary and metamorphic rocks of civil engineering importance, study of common rock types, brief geological history of India.

**Unit 4:** Structural geology: dip, strike, outcrops, classification and detailed studies of geological structures i.e. Folds, Faults, Joints, Unconformity and their importance in civil engineering.


**Unit 5:** Applied geology and remote sensing, engineering properties of rocks, selection of sites for Dam, Tunnel, Reservoirs and Canals, uses of remote sensing technique. Types, components and elements of remote sensing, EMS and MSS, Visual interpretation technique, application of GIS in civil engineering and resource mapping (site selection, water resources, rocks and soil)


**List of Experiment's (Expandable)**

1. Identification of simple rock forming minerals and important ores.
2. Identification of rocks
3. Simple map Exercises.
4. Field Visit/Geological Excursion

**Reference:**

1. Prabin Singh - "Engineering and General Geology"
2. P. K. Mukherjee - "A text Book of Geology"
3. S. K. Garg -- "A text Book of Physical and Engineering Geology"

  
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### Course Objectives

1. To study the paradigm shift in water management with global and national perspectives of water crisis. It also aims to understand the concepts of 'blue water', 'green water' and 'virtual water' and their roles in water management.
2. To study the sustainable water resources management and to plan and develop framework for future.
3. To study the modern principles of water management and planning.
4. To develop surface and subsurface water systems along with water balance equation.
5. To study the conventional and non-conventional techniques for water security.

### UNIT I: Paradigm Shift in Water Management

Global and national perspectives of water crisis, water scarcity, water functions in the life-support systems, water availability and requirements for humans and nature, concepts of 'blue water', 'green water' and 'virtual water' and their roles in water management, human-landscape interventions, and salient water management issues and challenges.-landscape interventions, and salient water management issues and challenges.

### UNIT II: Sustainable Water Resources Management

Concept of sustainable development, sustainability principles for water management, goals for guiding sustainable water resource management, important preconditioning in water policy approaches, framework for planning a sustainable water future.

### UNIT III: Integrated Water Resources Management (IWRM) Approach

IWRM Principles: Modern principles for water management and planning, definition, components, and critique of IWRM. *IWRM Implementation:* Socio-scientific, economic, political and ecological factors affecting the implementation of IWRM principles Salient examples of river basin management, lessons from best practices in river-basin management.

### UNIT IV: Surface and Subsurface Water Systems

Impacts of development activities on the water cycle, precipitation, evapotranspiration, infiltration, runoff, streamflow, erosion and sedimentation, types of aquifer systems and their hydraulic characteristics, environmental impacts on groundwater systems, estimation of groundwater recharge and discharge, assessment of groundwater potential, surface water-groundwater interaction, concept of sustainable groundwater development and management, water balance, balance of water resources and needs, minimum water table and minimum discharges.

## UNIT V: Conventional and Non-conventional Techniques for Water Security

Rainwater harvesting, groundwater mining and artificial recharge, conjunctive use of surface water and groundwater resources, long-distance water conveyance and transport, conservation of 'green water', desalination, treatment of poor-quality waters.

### Course Outcomes:

After studying this course, students will be able to:


1. Assess the potential of groundwater and surface water resources.
2. Address the issues related to planning and management of water resources.
3. Know how to implement IWRM in different regions.
4. Understand the legal issues of water policy.
5. Select the method for water harvesting based on the area.


### Text Books:

2. K. Subramanya, Engineering Hydrology, Tata McGraw Hill Publishers, New Delhi.
3. H.M. Raghunath, Ground Water, Wiley Eastern Publication, New Delhi.
4. Daniel P. Loucks and Eelco van Beek, Water Resources Systems. Planning and Management, UNESCO Publication.
5. Mollinga, P. et al, Integrated Water Resources Management, Water in South Asia Volume I, Sage Publications, 2006.
6. Singh, Chhatrapati Water Rights in India, Ed: Chhatrapati Singh. Water Law in India: The Indian Law Institute, New Delhi, 1992.
7. Dhruva Narayana, G. Sastry, V. S. Patnaik, Watershed Management, CSWCTRI, Dehradun, ICAR Publications, 1997.

### Reference Books:

1. Lal, Ruttan. Integrated Watershed Management in the Global Ecosystem. CRC Press, New York.
2. Heathcote, I. W. Integrated Watershed Management: Principles and Practice. 1988. John Wiley and Sons, Inc., New York.

  
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New Scheme Based On AICTE Flexible Curricula

Civil Engineering, V-Semester

Open Elective CE- 504 (A) Urban & Town Planning

**UNIT-I**

Definition and classification of urban areas - Trend of urbanization - Planning process - Various stages of the planning process - Surveys in planning. Plans - Delineation of planning areas. utility of spaces, future growth etc. Role of “Urban Planner ”in planning and designing in relation with spatial organization, utility, demand of the area and supply

**UNIT-II**

Plan implementation- Urban Planning agencies and their functions - Financing- Public, private, Nongovernmental organizations- Public participation in Planning. Development control regulations. sustainability and rationality in planning, Components of sustainable urban and regional development, Emerging Concepts: Global City, inclusive city, Safe city, etc. City of the future, future of the city.

**UNIT-III**

Town and country planning act- Building bye-laws. Elements of City Planning, Zoning and land use, Housing. Introduction to landscaping, importance, objectives, principles, elements, Urban Planning standards Urban renewal for quality of life and livability.

**UNIT-IV**


Traffic transportation systems: urban road, hierarchy, traffic management, Intelligent Transport Systems. Legal Issues in Planning and Professional Practice, Concepts and contents related to planning provision regarding property rights, Concept of Arbitration, State and Central government to deal with various matters concerning Town and Country Planning. mechanism for preparation of DP: Land Acquisition Rehabilitation and Resettlement Act 2013.


**UNIT-V**

Types of Development plans: Master Plan, City Development Plan, Structure Plan, housing, land use, Water Supply & sanitation, etc., Planning agencies for various levels of planning. Their organization and purpose (CIDCO-MHADA-MIDC, MMRDA/ PMRDA etc).

**Reference Books:-**

1. Adib Kanafani.(1983). Transportation Demand Analysis. Mc Graw Hill Series in Transportation, Berkeley.
2. Hutchinson, B.G. (1974). Principles of Urban Transport Systems Planning. Mc Graw Hill Book Company, New York.

  
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### UNIT-I

**Remote Sensing:** Basic concept of Remote sensing, Data and Information, Remote sensing data collection, Remote sensing advantages & Limitations, Remote Sensing process. Electromagnetic Spectrum, Energy interactions with atmosphere and with earth surface features (soil, water, and vegetation), Resolution, image registration and Image and False color composite, elements of visual interpretation techniques.

### UNIT-II

**Remote Sensing Platforms and Sensors:** Indian Satellites and Sensors characteristics, Remote Sensing Platforms, Sensors and Properties of Digital Data, Data Formats: Introduction, platforms- IRS, Landsat, SPOT, Cartosat, Ikonos, Envisat etc. sensors, sensor resolutions (spatial, spectral, radiometric and temporal). Basics of digital image processing- introduction to digital data, systematic errors(Scan Skew, Mirror-Scan Velocity, Panoramic Distortion, Platform Velocity , Earth Rotation) and non-systematic [random] errors(Altitude, Attitude), Image enhancements(Gray Level Thresholding, level slicing, contrast stretching),image filtering.

### UNIT-III

**Geographic Information System:** Introduction to GIS; components of a GIS; Geographically Referenced Data, Spatial Data- Attribute data-Joining Spatial and attribute data, GIS Operations: Spatial Data Input – Attribute data Management, Geographic coordinate System, Datum; Map Projections: Types of Map Projections, Projected coordinate Systems. UTM Zones

### UNIT-IV

**Data Models:** Vector data model: Representation of simple features – Topology and its importance; coverage and its data structure, Shape file; Relational Database, Raster Data Model: Elements of the Raster data model, Types of Raster Data, Raster Data Structure, Data conversion.

### UNIT-V

**Integrated Applications of Remote sensing and GIS:** Applications in land use land cover analysis, change detection, water resources, urban planning, environmental planning, Natural resource management and Traffic management. Location Based Services And Its Applications.

### Reference Books:-

- 1.Remote Sensing and GIS Lillesand and Kiefer, John Wiley 2008.
- 2.Remote Sensing and GIS B. Bhatta by Oxford Publishers 2015.
- 3.Introduction to Geographic Information System – Kang-Tsung Chang, McGraw-Hill 2015

**Unit - I**

Renewable Energy Systems Energy Sources, Comparison of Conventional and nonconventional, renewable and non-renewable sources. Statistics of world resources and data on different sources globally and in Indian context. Significance of renewable sources and their exploitation. Energy planning, Energy efficiency and management.

**Unit – II**

Wind Energy System Wind Energy, Wind Mills, Grid connected systems. System configuration, working principles, limitations. Effects of wind speed and grid conditions. Grid independent systems - wind-battery, wind- diesel, wind-hydro biomass etc. wind operated pumps, controller for energy balance. Small Hydro System Grid connected system, system configuration, working principles, limitations. Effect of hydro potential and grid condition. Synchronous versus Induction Generator for stand alone systems. Use of electronic load controllers and self excited induction generators. Wave Energy System: System configuration: grid connected and hybrid Systems.

**Unit - III**

Solar Radiation Extraterrestrial solar radiation, terrestrial solar radiation, Solar thermal conversion, Solar Phototonic System Solar cell, Solar cell materials, efficiency, Characteristics of PV panels under varying insulation. PV operated lighting and water pumps, characteristics of motors and pumps connected to PV panels. Biomass Energy System: System configuration, Biomass engine driven generators, feeding loads in stand-alone or hybrid modes, Biomass energy and their characteristics.

**Unit - IV**

Energy from oceans Ocean temperature difference, Principles of OTEC, plant operations, Geothermal Energy Electric Energy from gaseous cells, Magneto-hydro generated energy, Non hazardous energy from nuclear wastes, Possibilities of other modern nonconventional energy sources.

**Unit - V**

Electric Energy Conservation Energy efficient motors and other equipment. Energy saving in Power Electronic controlled drives. Electricity saving in pumps, airconditioning, power plants, process industries, illumination etc. Methods of Energy Audit. Measurements systems; efficiency

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**New Scheme Based On AICTE Flexible Curricula**

**Civil Engineering, VII-Semester**

**Departmental Elective CE 702(B) Environmental Engg-II**

(L-T-P: 3-1-0, Credit: 4)

**Course Objectives:**

- O1: To design waste-water treatment units by giving fundamental knowledge of primary, secondary and advanced wastewater treatment technologies.
- O2: To learn fundamental concept of Air pollution, its behavior in atmosphere and introduction of Air-pollution chemistry.

**Unit –I: Unit operations for waste-water treatment**

Theory and design of preliminary treatment such as screens, grit chamber, sedimentation and chemical clarification, role of micro-organism in biological treatment.

**Unit - II: Biological Treatment of waste-water**

Methods of Biological Treatment (Theory & Design) –Trickling Filter, Activated Sludge process (ASP), Oxidation ditch, Septic tank & imhoff tank, theory of sludge.

**Unit – III: Advanced Waste-water treatment**

Diatomaceous earth filters, Ultrafiltration, Adsorption by activated carbon, Phosphorus removal, Nitrogen removal.

**UNIT IV: Introduction of Air pollution**

Definition, Sources, classification and characterization of air pollutants. Effects of air pollution on health, vegetation & materials, photochemical smog.

**UNIT V: Air pollution chemistry**

meteorological aspects of air pollution dispersion; temperature lapse rate and stability, wind velocity and turbulence, plume behaviour, dispersion of air pollutants, the Gaussian Plume Model.

**Course Outcomes:**

At the end of the course, students would be able to

- CO1: Carry out municipal wastewater treatment system design and operation.
- CO2: Analyze and design of biological treatment plant, ponds, and various tanks.
- CO3: Apply knowledge of environmental treatment technologies and design processes.
- CO4: Apply knowledge of Air pollution and Air-pollution chemistry.

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**New Scheme Based On AICTE Flexible Curricula**

**Civil Engineering, VII-Semester**

**Open Elective CE 703(C) Integrated Waste Management**

**(L-T-P: 3-0-0, Credit: 3)**

**Course Objectives:**

- O1: To Aware about the problems associated with Municipal solid waste(MSW) and their effective management.
- O2: To understand the components of Integrated solid waste management system.
- O3: To learn about recycling, reuse and reduce, recover of solid wastes and Transfer station.
- O4: To examine the operation of a resource recovery facility, waste-to-energy strategies.
- O5: To study the design and operation of a municipal solid waste composting and land-filling.

**UNIT I: INTRODUCTION OF SOLID WASTES**

Definition of solid waste, garbage, rubbish-Sources and Types of solid wastes. Characteristics of Solid Wastes: Physical, chemical and biological characteristics- Problems occur due to improper disposal of solid wastes.

**UNIT II: INTEGRATED SOLID WASTE MANAGEMENT**

Definition- Reduction, reuse, recycling and recovery principles of waste management- Functional elements of integrated solid Waste management- Waste generation and handling at Source-Collection of solid wastes- Collection methods and services- guidelines for collection route layout.

**UNIT III: INTRODUCTION OF TRANSFER STATION**


Transfer Station-Processing and segregation of the solid waste- various methods of material segregation. Importance of Transfer Stations. Site selection of transfer stations.


**UNIT IV: PROCESSING AND TRANSFORMATION OF SOLID WASTES**

Composting: definition-methods of composting-advantages of composting, Incineration: definition-methods of incineration-advantages and disadvantages of incineration.

**UNIT V: DISPOSAL OF SOLID WASTE**

Volume reduction, Open dumping, land filling techniques. Landfills: Classification-Design and Operation of landfills, Land Farming, Deep well injection.

  
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## Branch- Common to All Discipline

ES301	Energy & Environmental Engineering	3L-1T-0P	4 Credits
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The objective of this Course is to provide *an introduction to energy systems and renewable energy resources, with a scientific examination of the energy field and an emphasis on alternative energy sources and their technology and application.*

### **Module 1: Introduction to Energy Science:**

Introduction to energy systems and resources; Introduction to Energy, sustainability & the environment; Overview of energy systems, sources, transformations, efficiency, and storage; Fossil fuels (coal, oil, oil-bearing shale and sands, coal gasification) - past, present & future, Remedies & alternatives for fossil fuels - biomass, wind, solar, nuclear, wave, tidal and hydrogen; Sustainability and environmental trade-offs of different energy systems; possibilities for energy storage or regeneration (Ex. Pumped storage hydro power projects, superconductor-based energy storages, high efficiency batteries)

### **Module2: Ecosystems**


- Concept of an ecosystem; Structure and function of an ecosystem; Producers, consumers and decomposers; Energy flow in the ecosystem; Ecological succession; Food chains, food webs and ecological pyramids; Introduction, types, characteristic features, structure and function of the following ecosystem (a.)Forest ecosystem (b) Grassland ecosystem (c) Desert ecosystem (d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)


### **Module 3: Biodiversity and its conservation**

- Introduction – Definition: genetic, species and ecosystem diversity; Bio-geographical classification of India; Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values; Biodiversity at global, National and local levels; India as a mega-diversity nation; Hot-spots of biodiversity; Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts; Endangered and endemic species of India; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

### **Module 4: Environmental Pollution**

- Definition, Cause, effects and control measures of Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards; Solid waste Management: Causes, effects and control measures of urban and industrial wastes; Role of an individual in prevention of pollution; Pollution case studies; Disaster management: floods, earthquake, cyclone and landslides.

  
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### **Module 5: Social Issues and the Environment**


- From Unsustainable to Sustainable development; Urban problems related to energy; Water conservation, rain water harvesting, watershed management; Resettlement and rehabilitation of people; its problems and concerns. Case Studies  
Environmental ethics: Issues and possible solutions. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies Wasteland reclamation; Consumerism and waste products; Environment Protection Act; Air (Prevention and Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act; Issues involved in enforcement of environmental legislation; Public awareness.


### **Module 6: Field work**

- Visit to a local area to document environmental assets- river/forest/grassland/hill/mountain
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural
- Study of common plants, insects, birds.
- Study of simple ecosystems-pond, river, hill slopes, etc.

### **REFERENCE**

1. Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc.
2. Clark R.S., Marine Pollution, Clarendon Press Oxford (TB).
3. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai,
4. De A.K., Environmental Chemistry, Wiley Eastern Ltd.
5. Trivedi R.K., Handbook of Environmental Laws, Rules Guidelines, Compliances and Standards', Vol I and II, Enviro Media (R)
6. Boyle, Godfrey, Bob Everett, and Janet Ramage (Eds.) (2004), Energy Systems and Sustainability: Power for a Sustainable Future. Oxford University Press.
7. Schaeffer, John (2007), Real Goods Solar Living Sourcebook: The Complete Guide to Renewable Energy Technologies and Sustainable Living, Gaiam

  
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Course Contents:

#### UNIT I

Computer: Definition, Classification, Organization i.e. CPU, register, Bus architecture, Instruction set, Memory & Storage Systems, I/O Devices, and System & Application Software. Computer Application in e- Business, Bio-Informatics, health Care, Remote Sensing & GIS, Meteorology and Climatology, Computer Gaming, Multimedia and Animation etc.

Operating System: Definition, Function, Types, Management of File, Process & Memory. Introduction to MS word, MS powerpoint, MS Excel

#### UNIT II

Introduction to Algorithms, Complexities and Flowchart, Introduction to Programming, Categories of Programming Languages, Program Design, Programming Paradigms, Characteristics or Concepts of OOP, Procedure Oriented Programming VS object oriented Programming. Introduction to C++: Character Set, Tokens, Precedence and Associativity, Program Structure, Data Types, Variables, Operators, Expressions, Statements and control structures, I/O operations, Array, Functions,

#### UNIT III

Object & Classes, Scope Resolution Operator, Constructors & Destructors, Friend Functions, Inheritance, Polymorphism, Overloading Functions & Operators, Types of Inheritance, Virtual functions. Introduction to Data Structures.

#### UNIT IV

Computer Networking: Introduction, Goals, ISO-OSI Model, Functions of Different Layers.

Internetworking Concepts, Devices, TCP/IP Model. Introduction to Internet, World Wide Web, E-commerce Computer Security Basics: Introduction to viruses, worms, malware, Trojans, Spyware and Anti-Spyware Software, Different types of attacks like Money Laundering, Information Theft, Cyber Pornography, Email spoofing, Denial of Service (DoS), Cyber Stalking, Logic bombs, Hacking Spamming, Cyber Defamation, pharming Security measures Firewall, Computer Ethics & Good Practices, Introduction of Cyber Laws about Internet Fraud, Good Computer Security Habits,

#### UNIT V

Data base Management System: Introduction, File oriented approach and Database approach, Data Models, Architecture of Database System, Data independence, Data dictionary, DBA, Primary Key, Data definition language and Manipulation Languages.

Cloud computing: definition, cloud infrastructure, cloud segments or service delivery models (IaaS, PaaS and SaaS), cloud deployment models/ types of cloud (public, private, community and hybrid clouds), Pros and Cons of cloud computing

#### List of Experiment

01. Study and practice of Internal & External DOS commands.
02. Study and practice of Basic linux Commands – ls, cp, mv, rm, chmod, kill, ps etc.
03. Study and Practice of MS windows – Folder related operations, My-Computer, window explorer, Control Panel,
04. Creation and editing of Text files using MS- word.
05. Creation and operating of spreadsheet using MS-Excel.
06. Creation and editing power-point slides using MS- power point
07. Creation and manipulation of database table using SQL in MS-Access.
08. WAP to illustrate Arithmetic expressions
09. WAP to illustrate Arrays.
10. WAP to illustrate Functions.
11. WAP to illustrate constructor & Destructor

### Project Management

#### Course Learning Objectives:

Understand the different activities in software project development i.e, planning, design and management.

#### Course content:

1. Conventional Software Management. Evolution of software economics. Improving software economics: reducing product size, software processes, team effectiveness, automation through software environments. Principles of modern software management.

#### 2. Software Management Process

Framework,: Life cycle phases- inception, elaboration, construction and training phase. Artifacts of the process- the artifact sets, management artifacts, engineering artifacts, pragmatics artifacts.

Model based software architectures. Workflows of the process. Checkpoints of the process.


#### 3. Software Management Disciplines


Iterative process planning. Project organisations and responsibilities. Process automation. Project control And process instrumentation- core metrics, management indicators, life cycle expectations.

Process discriminants.

#### Books

1. Software Project management, Walker Royce, Addison Wesley, 1998.
2. Project management 2/e ,Maylor.
3. Managing the Software Process, Humphrey.
4. Managing global software Projects, Ramesh, TMH,2001.

  
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New Scheme Based On AICTE Flexible Curricula


Electrical & Electronics Engineering,


VII-Semester

EX-705 Energy Audit Lab

#### List of Experiments

- 1) To study the need of energy conservation and audit.
- 2) To study the uses and technical specification of all relevant energy auditing instruments.
- 3) To perform experiment to collect data of all energy auditing instruments with respect to their inputs and also analyze the collected data
- 4) To perform experiment for comparative analysis of all luminaries (Incandescent lamp, Florescent lamp(FL), Compact FL and LED) using energy auditing instruments.
- 5) To study of different lighting systems, such as commercial, factory, flood and decorative etc.
- 6) To study applications of solar energy with respect to photovoltaic and thermal.
- 7) To study performance **assessment of motors for energy conservation using auditing.**
- 8) To study the different techniques for power factor improvement and its benefits.
- 9) To study the criteria and types of energy efficient motors.
- 10) To study the **comparative analysis between standard and energy efficient motors.**
- 11) Case study of net metering as a future technique to **optimize electrical energy utilization.**
- 12) Case study of energy audit of your departmental building.

  
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## FT-101 C PRINCIPLES AND PRACTICE OF MANAGEMENT

### COURSE OBJECTIVE

The course is aimed at delivering an insight in to the field of management. The course aims at explaining various concepts of management and contemporary management practices, highlighting the functions and responsibilities of the manager, making the students aware about professional challenges faced by the managers and acquainting the students with the tools and techniques that are used for handling the challenges of managerial jobs along with an understanding of the work environment.

### EXAMINATION SCHEME

Student shall be evaluated on two components: 20 internal and 80 end semester examination. There will be 20 marks for internal evaluation, three internal evaluations will be conducted out of which two will be written test and third will be assignment/ presentation/quiz/ class participation. Best two out of 3 evaluation will be considered as internal marks.

The semester examination carrying 80 marks will have two sections A and B Section A worth 60 marks will have six theory questions out of which students will be required to attempt any four questions. Section B carrying 20 marks will contain one or more cases (or cases/practical)

**Note: Relevant Case Studies (at least two cases per unit) will be discussed compulsorily.**

### COURSE OUTCOMES

After studying the course, the students would be able to gain:

- CO 1. Understanding of various management concepts functions and practices.
- CO 2. Understanding of the role of managers.
- CO 3. Learn about integrating management practices in work environment.
- CO 4. Enhance their decision-making through the use of analytical skills of management.

### COURSE CONTENTS

#### UNIT I

**Concept of Management** Concept and Nature of Management, Functions and Responsibilities of Managers, Management Thoughts - Fayol, Taylor & Weber's Contribution to Management. The Classical School, the Human Relations School, Systems Theory, Contingency Management. Developing Excellent Managers.

#### UNIT II

**Planning and Concept of Objectives** Nature and Purpose of Planning, The Planning Process, Principles of Planning, Types of Planning, Advantages and Limitations of Planning, Objectives (Nature and Types), MBO (Process, benefits and limitations).

#### UNIT III

**Strategies and Policies** Strategic Planning (Concept, Types and Process) and its Models

(TOWS Matrix, Porter's Generic Competency Model), Forecasting, Decision Making Nature, Types & Scope of Managerial decision Making process, Models of decision making, Policy and its types, Principles of policy formulation.

#### UNIT IV

Organizing Nature and Purpose of Organizing, Bases of Departmentation, Span of Management, Determinants of Span of Management, Line and Staff Relationship, Line-Staff Conflict, Bases of Delegation, Kinds of Delegation and Decentralization, Methods of Decentralization.

#### UNIT V

Directing and Staffing Concept, Importance and Elements of Directing, Direction Process, Principles of effective direction, Leadership. Staffing Concept, Importance and Steps, Knowledge Worker .

#### UNIT VI

Controlling Concept and Process of Control, Control Techniques, Human Aspects of Control, Control as a Feedback System, Feed Forward Control, Preventive Control, Profit and Loss Control, Control Through Return on Investment, The Use of Computer for Controlling and Decision Making, The Challenges Created by IT as a Control Tool.

#### UNIT VII

Contemporary Management Issues and its Challenges Cross cultural issues in management-Diversity and the new work force, Organization ethics and social responsibility, New ways of managing the workforce-Neuromanaging, Globalization and its complexity, Service economy, Management communication and technology, Knowledge management and knowledge economy.

#### TEXT READINGS

1. Essentials of Management –Horold Koontz, O'Donnell and Heinz Wehrich, New Delhi, Tata McGraw Hill, Latest Edition.
2. Organization and Management R.D. Agrawal., New Delhi, Tata McGraw Hill, Latest Edition.
3. Principles and Practices of Management - Dr. T.N. Chhabra ,Delhi Dhanpat Rai & Co. Latest Edition

#### SUGGESTED READINGS

1. Management. A Global Perspective - Horold Koontz, Heinz Wehrich, New Delhi Tata McGraw hill, Latest Edition
2. Management - Stephen Robbins. New Delhi Pearson, Latest Edition.
3. Principles of Management - Richard L. Daft, India. New Delhi :Cengage Learning, Latest Edition

A-Save  
Sandeep  
Girish  
Sangeetha  
Manoj  
w.c.f. Academic year 2019-20



## COURSE CONTENTS

### UNIT I

**Business Environment:** Concept, Significance and Nature of Business Environment; Elements of Environment -Internal and External, Type of Environment (Economic, Socio-Cultural, Political, Legal & Technological), Changing Dimensions of Business Environment. Problems and Challenges of Indian Business Environment .

### UNIT II

**Economic Planning & Development:** Economic Environment: Nature of Economy, Structure of the Economy, Economic Conditions, Problems & Challenges of Indian Economy and Suggestions , NITI (National Institution for Transforming India)Aayog- Objectives and Strategy, Rural Development Efforts, NGO Sector in India ,Current Economic trends in India

### UNIT III

**Indian Financial System:** Monetary and Fiscal Policy, Economic Planning with reference to last 3 Plans, Industrial Policy, Foreign Trade Policy, RBI, SEBI, Banks Reform, Inflation, Relevant Case Study.

### UNIT IV

**India & The World:** Liberalization, Privatization ,Disinvestment & Globalization-Concept & Impact on India ,India's Export and Import ,EXIM Policy, Foreign Direct Investment in India -its impact on Indian economy.

### UNIT V

**International Trade:** Balance of Payment-Concept, Disequilibrium in BOP, Methods of Corrections ,Trade Barriers and Trade Strategy, Free Trade vs. Protection, World Financial Environment: Foreign Exchange Market Mechanism, Exchange Rate Determination, and Euro Currency.

### UNIT VI

**Strategies for going Global:** International Economic Integration, Country Evaluation and Selection, Foreign Market Entry Method, International Trading Blocks, Their Objectives, WTO Origin, Objectives, Organization Structure and Functioning, WTO and India. Impact of WTO and Indian Business

### UNIT VII

**Multinational Corporations:** Meaning and Dimensions, Globalization Stages, Foreign Market Entry Strategies, Pros and Cons of Globalization of Indian Business

A.S. Jais

Ram

Rajesh

Y. S. Jais

Sangeeta

Anant J.

J.

## FT-106C ORGANIZATION BEHAVIOUR

### COURSE OBJECTIVES

The Objective of this course is to help students to understand human behaviour in organizations so that they improve their managerial effectiveness.

### EXAMINATION SCHEME

Student shall be evaluated on two components: 20 internal and 80 end semester examinations.

There will be 20 marks for internal evaluation, three internal evaluations will be conducted out of which two will be written test and third will be assignment/ presentation/quiz/ class participation. Best two out of 3 evaluations will be considered as internal marks. The semester examination carrying 80 marks will have two sections A and B. Section A worth 60 marks will have six theory questions out of which students will be required to attempt any four questions. Section B carrying 20 marks will contain one or more cases (or cases/practical)

**Note: Relevant Case Studies (at least two cases per unit) will be discussed compulsorily.**

### COURSE OUTCOMES

After the completion of the course the students should be able to:

- CO1. Demonstrate an understanding of key terms, theories/ concepts and practices within the field of OB.
- CO2. Demonstrate competence in development and problem solving in the area of management.
- CO3. Analyze the key issues related to administrating the human elements such as Perception, Learning, Motivation, Leadership, Team Building and others
- CO4. Know the meaning of terminology and tools used in managing employees effectively

### COURSE CONTENTS

#### UNIT I

**Foundations of Individual Behaviour:** The organization and the individual: Personality: Determinants and Attributes, Attitudes, Learning and Learning Theories, Perception, OB models

A-S-1/2

Ran  
Ran

gini

Sangeeta  
MC

Pranav

ch.

## UNIT II

**Motivation:** Definition and concept, theories of motivation- Maslow's Hierarchy of Needs, Herzberg's Two Factor theory, ERG theory, Vroom's Expectancy theory, Equity theory, Reinforcement theory and Behaviour Modification

## UNIT III

**Foundations of Group Behaviour and Conflict Management and Negotiation:** Defining and Classifying Groups, stages of group development, Group Structure, Group Processes, Group Dynamics, Group v/s Team, Team Effectiveness. Group and Intergroup Relations

Transitions in Conflict Thought, Functional versus Dysfunctional Conflict, Conflict Process, Conflict Management Techniques, Negotiation Process, Bargaining Strategies

## UNIT IV

**Emotional Intelligence and Leadership :** Nature and Significance of leadership, leadership in different cultures, leadership theories and Styles: Trait theories, Behavioural theories-- Ohio State Studies, Michigan Studies, and Managerial Grid Contingency theories-- Fiedler's Model, Hersey and Blanchard's Situational theory, Path Goal theory, Recent Development in Leadership Theory.

Emotional intelligence: Framework of Emotional Intelligence, EI implications for an individual and managerial effectiveness.

## UNIT V

**Organizational Culture and Organizational Change:** Concept, Relationship of Culture with organizational behaviour, Levels of organizational culture, Analyzing, managing and changing organizational culture, Implications for managers at national and global level. Forces for Change, Resistance to Change. Approaches to managing organizational change.

## UNIT VI

**Time Management and Stress Management:** Stress, Work Stress and its Management, Concept of Time Management, Barriers to Effective Time Management, Tools and Techniques for Effective Time Management.

## TEXT READINGS

1. Stephen P. Robbins, Timothy A Judge, Seema Sanghi "Organizational Behaviour", Pearson Education, Latest Edition.
2. Nelson, Organisational Behaviour, Cengage Learning, India, Latest Edition
3. R. S. Dwivedi, "Human Relations and Organizational Behaviour: A Global Perspective", Macmillan Latest Edition
4. Jerald Greenberg and Robert A. Baron, Behaviour in Organisations, PHI Learning, Latest Edition.

## FT -207 C BUSINESS ETHICS & INDIAN ETHOS IN MANAGEMENT

### COURSE OBJECTIVES

The objective of this course is to help students gain an understanding of Business Ethics and application of Indian values in managerial decision-making.

### EXAMINATION SCHEME

Student shall be evaluated on two components: 20 internal and 80 end semester examination.

There will be 20 marks for internal evaluation, three internal evaluations will be conducted out of which two will be written test and third will be assignment/ presentation/quiz/ class participation. Best two out of 3 evaluations will be considered as internal marks.

The semester examination carrying 80 marks will have two sections A and B. Section A worth 60 marks will have six theory questions out of which students will be required to attempt any four questions. Section B carrying 20 marks will contain one or more cases (or cases/practical)

**Note: Relevant Case Studies (at least two cases per unit) will be discussed compulsorily.**

### COURSE OUTCOMES

After completion of the course the students should be able

- CO1. Understand the relevance of Indian Ethos for further enrichment of holistic leadership principles and practices.
- CO2. Understand application of several important concepts and frameworks for moral reasoning to complex business issues.
- CO3. Apply ethics to business, management, and decision making.
- CO4. Provide insights to participants for developing leadership that is socially, environmentally and culturally responsible

### COURSE CONTENTS

#### PART – I BUSINESS ETHICS

##### UNIT I

The Nature and Purpose of Ethical Reflections Introduction, Definition of Ethics, Moral Behaviour, Characteristics of Moral Standards, Business Ethics Mediating between Moral Demands and Interest, Relative Autonomy of Business Morality, Studies in Business Ethics, Role of Ethics in Business, Theory of Voluntary Mediation, Participatory Ethics, Duty ethics in the Business Environment, Theories of Virtue  
Case Study: Trade in Human Organs.

## UNIT II

Moral Responsibility: Introduction; Balanced Concept of Freedom, Individual Responsibility, Implications related to Modern Issues, Public Accountability and Entrepreneurial Responsibility, Moral Corporate Excellence.

Case Study: Satyam is not really Satyam

Discussion on cases related to unethical Practices in Industry (For instance Nirav Modi, Vijay Mallaya, etc)

## UNIT III

Corporate Responsibility, Business Ethics and Individual Interest: Interest based Outlook, Impact of Interest on Moral Goals and Moral Principles, Utilitarian Views on Business Ethics, Enlightened Egoism.

## PART - II INDIAN ETHOS IN MANAGEMENT

### UNIT IV

Management, Culture and Ethos - Role and Significance of Ethos in Managerial Practices, Management is Culture Bound, Sources of Indian Ethos in Management Vedas, Shastras, Smritis, Puranas, Upanishads, Ramayan, Mahabharat, Arthashastra, Ramcharitamanas, Panchatantra, Hitopdesh, Guru Granth Sahib, Teachings of Buddha and Mahaveer. the Holy Bible, the Holy Quran etc. – examples and models from the above texts, Human Behaviour – Indian Thoughts, Guna Theory, Sanskara Theory.

Case Study: The Whistleblower

Discussion on characters of Ramayana, Mahabharata Learnings and quotes of GurunanakDev , Buddha , Mahavir , Inspirational Stories from Indian Mythology.

### UNIT V

Karma Theory, Nishkama Karma Yoga and Professionalism, Personal and Managerial Effectiveness in Indian Thoughts - Management of the Self Management of Body, Thoughts and Emotions; Interpersonal and Group Effectiveness .

Case Study: Jet Airways.

Discussion on stories from Panchtantra, Hitopdesh .

### UNIT VI

Cultural Heritage of India and its relevance for Modern Management Concept of 'Pancha - Rina' (five- fold debt) and Corporate Social Responsibility. Four fold Life Goals (Purusharth Chatustheya) and Business. Sanskara Values Vs. Skills Supremacy of Values over Skills. Role Vs. Self. Work Place Spirituality

Case Study: East India Company, Discussions on Teachings from Bhagwad Geeta

### UNIT VII

Productive Practices and Team Motivation, Prospects of Virtues in Business Ethics and Management Theory. Models of Leadership and Motivation in Indian Thoughts. Examples from Scriptures

b) Potential Sources of Error in Social Cognition

**UNIT III**

**Social Perception:**

- a) Nonverbal Communication: The unspoken Language of Expressions Gazes and Gestures
- b) Attribution: Understanding the Causes of others Behaviour
- c) Impression Formation and Impression Management

**UNIT IV**

**Attitude Formation:**

- a) How Attitudes Develop
- b) When and why do Attitudes influence behaviour?
- c) How do attitudes guide behaviour?
- d) The Fine Art of Persuasion: how Attitudes are changed?
- e) Resisting Persuasion attempts
- f) Cognitive Dissonance: What it is and how we manage it?

**UNIT V**

**The Self:**

- a) Personal and Social Identity
- b) Self Esteem
- c) Self Presentation and Self Regulation

**UNIT VI**

**Social Influence:**

- a) Conformity: Group Influence in Action
- b) Compliance. To Ask – Sometimes - Is to Receive
- c) Symbolic social influence: how we are influenced by others even when they are not there
- d) Obedience to Authority
- e) The Prevention and Control of Violence: Some Useful Techniques

**UNIT VII**

**Employment testing:**

- a) Testing Abilities
- b) Testing Personality
- c) Testing Skills & Achievement
- d) Interview Techniques

**TEXT READINGS**

1. Baron, R. A., Branscombe, N. R. & Byrne, D. Bhardwaj, G, Latest Edition .
2. Social Psychology: New Delhi Pearson Education. Indian subcontinent adaptation, Latest Edition .

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**New Scheme of Examination as per AICTE Flexible Curricula**

**Mechanical Engineering, VI-Semester**

**Open Elective ME- 604 (C) Renewable Energy Technology**

**UNIT-I Solar Radiation:**

Extra-terrestrial and terrestrial, radiation measuring instrument, radiation measurement and predictions. Solar thermal conversion: Basics, Flat plate collectors-liquid and air type. Theory of flat plate collectors, selective coating, advanced collectors, Concentrators: optical design of concentrators, solar water heater, solar dryers, solar stills, solar cooling and refrigeration.

Solar photovoltaic: Principle of photovoltaic conversion of solar energy; Technology for fabrication of photovoltaic devices; Applications of solar cells in PV generation systems; Organic PV cells.

**UNIT-II Wind Energy:**

Characteristics and measurement: Metrology of wind speed distribution, wind speed statistics, Weibull, Rayleigh and Normal distribution, Measurement of wind data, Energy estimation of wind regimes; **Wind Energy Conversion:** Wind energy conversion principles; General introduction; Types and classification of WECS; Power, torque and speed characteristics; power curve of wind turbine, capacity factor, matching wind turbine with wind regimes; Application of wind energy.

**UNIT-III Production of biomass:**

Photosynthesis-C3 & C4 plants on biomass production; Biomass resources assessment; Co<sub>2</sub> fixation potential of biomass; Classification of biomass; Physicochemical characteristics of biomass as fuel Biomass conversion routes: biochemical, chemical and thermo chemical Biochemical conversion of biomass to energy: anaerobic digestion, biogas production mechanism, technology, types of digesters, design of biogas plants, installation, operation and maintenance of biogas plants, biogas plant manure-utilization and manure values. Biomass Gasification: Different types, power generation from gasification, cost benefit analysis of power generation by gasification.

**UNIT-IV Small Hydropower Systems:**

Overview of micro, mini and small hydro system; hydrology; Elements of turbine; Assessment of hydro power; selection and design criteria of turbines; site selection and civil works; speed and voltage regulation; Investment issue load management and tariff collection; Distribution and marketing issues. Ocean Energy: Ocean energy resources, ocean energy routs; Principle of ocean thermal energy conversion system, ocean thermal power plants. Principles of ocean wave energy and Tidal energy conversion.

**UNIT-V Geothermal Energy:**

Origin of geothermal resources, type of geothermal energy deposits, site selection geothermal power plants; Hydrogen Energy: Hydrogen as a source of energy, Hydrogen production and storage. Fuel Cells: Types of fuel cell, fuel cell system and sub-system, Principle of working, basic thermodynamics

**References:**

1. Kothari, Singal & Rajan; Renewable Energy Sources and Emerging Technologies, PHI Learn
2. Khan, B H, Non Conventional Energy, TMH.
3. Sukhatme and Nayak, Solar Energy, Principles of Thermal Collection and Storage, TMH.
4. Tiwari and Ghoshal, Renewable Energy Resources: basic principle & application, Narosa Publ

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**New Scheme Based On AICTE Flexible Curricula**

**Mechanical Engineering, VIII-Semester**

**Departmental Elective ME 802(A) Automobile Engineering**

**COURSE OBJECTIVES**

The students will be made to learn.

- The anatomy of the automobile in general.
- The location and importance of each part of automobile.
- The functioning of the engine and its accessories, gear box, clutch, brakes, steering, axles and wheels, suspension, frame, springs and other connections.
- The effect of **automobile emissions on environment and how to control pollution.**


**Course Contents:**


**Unit-I:** Chassis & Body Engg: Types, Technical details of commercial vehicles, types of chassis, layout, types of frames, testing of frames for bending & torsion on unutilized body frame, vehicle body and their construction, driver's visibility and methods for improvement, safety aspects of vehicles, vehicle aerodynamics, optimization of body shape, driver's cab design, body materials, location of engine, front wheel and rear wheel drive, four wheel drive.

**Unit-II:** Steering System: front axle beam, stub axle, front wheel assembly, principles of types of wheel alignment, front wheel geometry viz. camber, Kingpin inclination, castor, toe-in and toe-out, condition for true rolling motion, centre point steering, directional stability of vehicles, steering gear, power steering, slip angle, cornering power, over steer & under steer, gyroscopic effect on steering gears.

**Unit-III:** Transmission System: Function and types of clutches, single plate, multi-plate clutch, roller & spring clutch, clutch lining and bonding, double declutching, types of gear boxes, synchroniser, gear materials, determination of gear ratio for vehicles, gear box performance at different vehicle speed, automatic transmission, torque converters, fluid coupling, principle of hydrostatic drive, propeller shaft, constant velocity universal joints, differential gear box, rear axle construction.

**Unit-IV:** Suspension system : Basic suspension movements, Independent front & rear suspension, shock absorber, type of springs: leaf spring, coil spring, air spring, torsion bar, location of shackles, power calculations, resistance to vehicle motion during acceleration and braking, power & torque curve, torque & mechanical efficiency at different vehicle speeds, weight transfer, braking systems, disc theory, mechanical, hydraulic & pneumatic power brake systems, performance, self-energisation, air-bleeding of hydraulic brakes, types of wheels and tyres, tyre specifications, construction and material properties of tyres & tubes.

  
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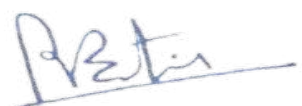
**Unit-V:** Electrical and Control Systems: Storage battery, construction and operation of lead acid battery, testing of battery, principle of operation of starting mechanism, different drive systems, starter relayswitch, regulator electric fuel gauge, fuel pump, horn, wiper, lighting system, head light dazzling, signaling devices, battery operated vehicles, choppers, importance of maintenance, scheduled and unscheduled maintenance, wheel alignment, trouble Shooting probable causes & remedies of various systems, microprocessor based control system for automobile, intelligent automobile control systems.

**Unit-VI:** Emission standards and pollution control: Indian standards for automotive vehicles- Bharat I, II, III, IV, Euro I to Euro VI norms, fuel quality standards, environmental management systems for automotive vehicles, catalytic converters, fuel additives, and modern trends in automotive engine efficiency and emission control.

**References:**

1. Crouse , Automotive Mechanics TMH.
2. Srinivasan S; Automotive engines; TMH
3. Gupta HN; Internal Combustion Engines; PHI;
4. Joseph Heitner, Automotive Mechanics, Principles and Practices, CBS Pub.
5. Kripal Singh, Automotive Engineering Khanna Pub.
6. Newton & Steeds , Automotive Engineering
7. Emission standards from BIS and Euro –I to Euro-VI

  
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RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Mechanical Engineering, VIII-Semester

ME 801- Refrigeration & Air Conditioning

Course Objectives

After studying this course, students will be able to:

1. Learn the basic concepts and principles of refrigeration and air conditioning.
2. Learn the fundamental analysis methodology of refrigeration.
3. Learn the basic process and systems of air conditioning.
4. Will apply the course knowledge to do a design project of HVAC system.

Course Content

**Unit-I Introduction:** Principles and methods of refrigeration, freezing; mixture cooling by gas reversible expansion, throttling, evaporation, Joule Thomson effect and reverse Carnot cycle; unit of refrigeration, coefficient of performance, vortex tube & thermoelectric refrigeration, adiabatic demagnetization; air refrigeration cycles- Joule's cycle Boot-strap cycle, reduced ambient cycle and regenerative cooling cycles.


**Unit-II Vapour compression system:** Vapor compression cycle, p-h and t-s diagrams, deviations from theoretical cycle, sub-cooling and super heating, effects of condenser and evaporator pressure on cop; multi-pressure system: removal of flash gas, multiple expansion & compression with flash inter cooling; low temperature refrigeration: production of low temperatures, cascade system, dry ice, production of dry ice, air liquefaction system,.


**Unit-III (a) Vapour absorption system:** Theoretical and practical systems such as aqua-ammonia, Electrolux & other systems;

(b) **Steam jet refrigeration:** Principles and working, simple cycle of operation, description and working of simple system,

(c) **Refrigerants:** nomenclature & classification, desirable properties, common refrigeration, comparative study, leak detection methods, environment friendly refrigerants and refrigerant mixtures, brine and its properties

**Unit-IV Psychrometric:** Calculation of psychrometric properties of air by table and charts; psychrometric processes: sensible heating and cooling, evaporative cooling, cooling and dehumidification, heating and humidification, mixing of air stream, sensible heat factor; principle of air conditioning, requirements of comfort air conditioning, ventilation standards,

  
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infiltrated air load, fresh air load human comfort, effective temperature & chart, heat production & regulation of human body,

**Unit-V Air conditioning** : Calculation of summer & winter air conditioning load, bypass factor of coil, calculation of supply air rate & its condition, room sensible heat factor, grand sensible heat factor, effective sensible heat factor, dehumidified air quantity. Problems on cooling load calculation. **Air distribution and ventilation systems**

### Evaluation:


Evaluation will be continuous and integral part of the class as well as through external assessment.

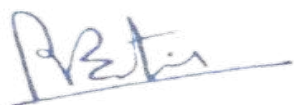
### References:

1. Arora CP; Refrigeration and Air Conditioning; TMH
2. Sapali SN; Refrigeration and Air Conditioning; PHI
3. Ananthanarayan; Basic Refrigeration and Air conditioning; TMH
4. Manohar Prasad; Refrigeration and Air Conditioning; New Age Pub
5. Ameen; Refrigeration and Air Conditioning; PHI
6. Pita ; Air conditioning Principles and systems: an energy approach; PHI
7. Stoecker W.F, Jones J; Refrigeration and Air conditioning; McGH, Singapore
8. Jordan RC and Priester GB Refrigeration and Air Conditioning, PHI USA

### List of Experiments:

1. General Study of vapor compression refrigeration system.
2. General Study of Ice Plant
3. General Study and working of cold storage
4. General Study Trane Air Condition (Package Type).
5. General Study of Electrolux Refrigeration
6. General Study One tone Thermax refrigeration unit.
7. General Study of Water cooler
8. General Study of Psychrometers (Absorption type)
9. General Study of Leak Detectors (Halide Torch).
10. General Study and working of Gas charging Rig.
11. General Study of window Air Conditioner.
12. General Study and working of Vapor compression Air conditioning Test rig.
13. Experimentation on Cold Storage of Calculate COP & Heat Loss.
14. Experimentation on Vapor compression Air Conditioning test rig.
15. Changing of Refrigerant by using Gas Charging Kit.

  
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# RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

## New Scheme Based On AICTE Flexible Curricula

### Mechanical Engineering, VIII-Semester

#### ME 805- MAJOR PROJECT- II

#### COURSE GUIDELINES

The objectives of the course 'Major Project -II' are

- To provide students with a comprehensive experience for applying the knowledge gained so far by studying various courses.
- To develop an inquiring aptitude and build confidence among students by working on solutions of small industrial problems.
- To give students an opportunity to do some thing creative and to assimilate real life work situation in institution.
- To adapt students for latest developments and to handle independently new situations.
- To develop good expressions power and presentation abilities in students.

The focus of the Major Project-II is on preparing a working system or some design or understanding of a complex system using system analysis tools and submit it the same in the form of a write-up i.e. detail project report. The student should select some real life problems for their project and maintain proper documentation of different stages of project such as need analysis, market analysis, concept evaluation, requirement specification, objectives, work plan, analysis, design, implementation and test plan. Student may carry his /her topic of major project –I for major project –II provided that supervisor of the student is agree for the same on the basis of feasibility and scope of work of the selected topic. Each student is required to prepare a project report and present the same at the time of final examination with a demonstration of the working system (if any).


#### The faculty and student should work according to following schedule:

- Each student undertakes substantial and individual project in an approved area of the subject and supervised by a member of staff.
- The student must submit outline and action plan for the project execution (time schedule) and the same be approved by the concerned faculty.
- At all the steps of the project, students must submit a written report of the same.


#### Evaluation

Evaluation will be continuous an integral part of the project work done by student on regular basis by the supervisor followed by the final external viva/voce examination.

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## 2. Universal Human Values workshop certificates



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# ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

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## *Certificate of Participation*

This is to certify that Mr. Ajay Bhargava from Swami Vivekanand College of Engineering, Indore has participated and successfully completed the 5-day online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 22nd August to 26th August, 2022.

**Dr. Rajneesh Arora**  
Chairman

National Coordination Committee for Induction Program

**Prof. Rajive Kumar**  
Member Secretary, AICTE

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*Certificate of Participation*

This is to certify that **Mr. Sharad Chaurasia** from **Swami Vivekanand College of Engineering, Indore** has participated and successfully completed the **5-day Online FDP** on the theme **“Inculcating Universal Human Values in Technical Education”** organized by **All India Council for Technical Education (AICTE)** from **29th May to 2nd June 2023**.

  
**Dr. Rajneesh Arora**  
Chairman

**National Coordination Committee for Induction Program**

**Prof. Rajive Kumar**  
Member Secretary, AICTE

  
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### **3. Report and photographs of Warm Clothes Donation Activity**





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SVCE/Dir./2021-22/017

Date: 24.12.2021

## NOTICE

*Dear All,*

It is to inform you all that, on 21.01.2022 warm clothes will be distributed to the needy deprived people by the institute. It our social responsibility towards the poor, needy and deprived people to help them, in this regard the institute will distribute warm clothes on 21.01.2022. Any faculty/staff & student, who want to donate old warm clothes like *sweaters, shawls, jacket etc.*, are required to submit the college reception. You can also donate casual clothes like **pant, shirt, t-shirt etc.**



# DONATE

You are Warm this year,



Share it...

Friday, 21/01/2022

Director  
SVGI, Indore  
Copy to:

1. Principal (SVCE/SVCP), for necessary action
2. Additional Director, SVGI
3. Faculty/Staff member

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## Report on Winter Clothes Donation Activity

**Title:** Spreading Warmth: Winter Clothing Donation Activity

**Date :** 21/01/2022

**Introduction:** In response to the pressing need to support vulnerable communities during the harsh winter months, our organization initiated a winter clothing donation drive.

The aim was to collect warm clothes and distribute them to those in need, ensuring that everyone could withstand the cold temperatures with dignity and comfort.

This report provides an overview of the activity, including its objectives, execution, and impact.

### Objectives:

- Collect a substantial amount of warm clothing items including jackets, sweaters, hats, gloves, scarves, and blankets.
- Distribute the collected items to shelters, homeless communities, and low-income families in our locality.
- Raise awareness about the importance of helping those in need during the winter season.

**Execution:** The activity was promoted through various channels including social media, local newspapers, and word-of-mouth. Donation boxes were placed in SVCE. Student volunteers played a crucial role in sorting, cleaning, and organizing the donated clothes. Special attention was paid to ensure that all items were in good condition and suitable for use. Once sorted, the clothing items were packed into boxes. Team of volunteers delivered the donated items directly to those in need.

**Impact:** The winter clothing donation activity yielded significant positive outcomes:

**Quantity of Donations:** Through the collective efforts of volunteers and the generosity of donors, we were able to collect over 500 winter clothing items, including jackets, sweaters, hats, gloves, scarves, and blankets.

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**Direct Impact:** The donated clothing items provided much-needed warmth and comfort to individuals and families facing financial hardship or homelessness. Recipients expressed gratitude for the support, emphasizing the difference it made in their lives during the cold winter months.

**Awareness and Outreach:** The activity helped raise awareness about the challenges faced by vulnerable populations during the winter season. It encouraged empathy and compassion within the community, prompting individuals to take action and support those in need.

**Conclusion:** The winter clothing donation activity exemplified the power of collective action in making a positive impact on the lives of others. By efforts of students and staff of SVCE, we were able to provide warmth, comfort, and hope to those facing adversity. This initiative taken by coordinators to serving the needs of our community and inspired us to continue finding innovative ways to make a difference.

**Coordinator**  
**Mr. Tarandeep Singh**

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## Photographs of Winter Clothing Donation



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*Prateek*  
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**Photographs of Winter Clothing Donation**



*Ad.*  
IQAC COORDINATOR  
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*Arjun*  
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## **4. Report and photographs of Blood Donation Activity**



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## Report on “Blood Donation Camp”

**Date:** 28th July 2022

**Place –** SVCE, Indore

**Participants:** Students, Faculty Members, Director, Administrative Officer, Student Coordinators.

### **Introduction:**

Swami Vivekanand College Of Engineering (SVCE) organized a Blood Donation Camp on 28th July 2022 at the college campus. The event aimed to contribute to the welfare of society by encouraging blood donation among students and faculty members.

### **Objectives:**

- To promote awareness about the importance of blood donation.
- To encourage students and faculty members to donate blood.
- To support local hospitals and blood banks with a supply of donated blood.
- To foster a spirit of community service within the SVCE family.

### **Instructor/Coordinator:**

The camp was overseen by Mr. Tarandeep Arora, who coordinated with local health officials and blood banks to ensure the smooth conduct of the event. Special thanks to our Director and Administrative Officer for their guidance and support.

### **Activity Description:**

The Blood Donation Camp was set up in the college auditorium. The event commenced at 9:00 AM with a brief orientation about the importance of blood donation and the process involved. Medical professionals conducted health check-ups for all potential donors to ensure they were to donate. The donation process was carried out with strict adherence to hygiene and safety protocols.

### **Participation and Engagement:**

The event witnessed enthusiastic participation from both students and faculty members. A total of 80 units of blood were donated by the SVCE family. The student coordinators played a crucial role in managing the registration, guiding donors through the process, and ensuring the event ran smoothly.

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## Conclusion:

The Blood Donation Camp was a resounding success, with the SVCE community coming together to support a noble cause. The college is proud of all the donors who selflessly extended their helping hand to save lives. We are committed to continuing our efforts toward the welfare of society with similar initiatives in the future. Special thanks to our Director, Administrative Officer, and student coordinators for their invaluable contributions.

SVCE expresses its heartfelt gratitude to everyone who participated and made this event possible. Together, we can make a significant impact on society and continue to uphold the values of compassion and community service.

## Report Prepared by:

Mrs. Megha Garg  
Assistant Professor, CED  
Swami Vivekanand College of Engineering, Indore


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Blood Donors (28/07/2022)

S.No.	Name	Branch	Year
1	Kirtan Chouhan	Civil	1st
2	Nirmal Chouhan	Civil	1st
3	Rohit Kote	Civil	1st
4	Aayushi Solanki	CS	1st
5	Aditi Paliwat	CS	1st
6	Ankit Sharma	CS	1st
7	Ashish Chouhan	CS	1st
8	Deepak Anjana	CS	1st
9	Golu Yadav	CS	1st
10	Harsh Jha	CS	1st
11	Harsh Kuarvanshi	CS	1st
12	Krish Sharma	CS	1st
13	Mohit Nagar	CS	1st
14	Nikhil Chouhan	CS	1st
15	Nikhil Mehra	CS	1st
16	Nilesh Verma	CS	1st
17	Om Wadhvani	CS	1st
18	Prashant Vanskar	CS	1st
19	Ranchnar Rathore	CS	1st
20	Ravi Pratap Singh	CS	1st
21	Rishu Pandey	CS	1st
22	Sanjay Gurjar	CS	1st
23	Shivam Kag	CS	1st
24	Shivam Yadav	CS	1st
25	Sidharth Rathor	CS	1st
26	Vaibhav Sawner	CS	1st
27	Vishal Chawda	CS	1st
28	Vishal Prajapati	CS	1st
29	Azhar	EC	1st
30	Chayan Nim	EC	1st
31	Praveen Gurjar	EC	1st
32	bhupendra Lakhena	IT	1st
33	Chandan Verma	IT	1st
34	Jayesh Karma	IT	1st
35	Karim Ahmed	IT	1st
36	Mahesh Babriwal	IT	1st
37	Md. Aarish	IT	1st
38	Pankaj Sisodiya	IT	1st
39	Raj Thakur	IT	1st
40	Roshan Sahu	IT	1st
41	Sahil Chamoli	IT	1st

  
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42	Vinod Narwariya	IT	1st
43	Priyanshu Yadav	ME	1st
44	Dilip Sharma	ME dip.	1st
45	Lokesh Sen	ME dip.	1st
46	Rahul Choudary	ME dip.	1st
47	Yash Prajapat	ME dip.	1st
48	Dheeraj Gini	D. Pharma	2nd
49	Asif Multani	Civil	3rd
50	Mohit Birla	Civil	3rd
51	Abhijeet Ghadaye	EC	3rd
52	Arjun Gautam	EC	3rd
53	Akul Gehlot	IT	3rd
54	Jay Solanki	IT	3rd
55	Mohit Verma	IT	3rd
56	Aman Patidar	IT	3rd
57	Ankit Chouhan	ME	3rd
58	Gotam Dhangar	ME	3rd
59	Hariom Nagar	ME	3rd
60	Madhusudan yadav	ME	3rd
61	Jyoti Medatwal	B. Pharma	4th
62	Prakhar Mishra	CS	4th
63	Shivam Joshi	CS	4th
64	Shubham Gandhare	CS	4th
65	Kunal Singh Thakur	IT	4th
66	Shubham Prasad	IT	4th
67	Amit Prajapati	ME	
68	Manish Kumrawat	ME	
69	Shruti Shukla	ME	
70	Sourabh Vishwakarma	ME	
71	Sanjay Kushwah	ME	
72	Amar Ranwadiya	Staff	
73	Ashwini Sharma	Staff	
74	Bhim Singh Dabi	Staff	
	Ekta Yadav	Staff	
76	Manisha Gaur	Staff	
77	Manoj Makwana	Staff	
78	Masnisha Saxena	Staff	
79	Satyendra Yadav	Staff	
80	Tarandeep Singh	Staff	




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**Photographs of Blood Donation camp**



  
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**Photographs of Blood Donation camp**



*A. J.*

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*P. V. S.*

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**Photographs of Blood Donation camp**



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*Arjit*  
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## 5. Report and photographs of industry visits



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## Report on Industrial Visit @BSNL

**Title:** Industrial Visit @ BSNL

**Date:** 06/08/2019

**Introduction** Department of Electronics & Communication organized a one day industrial visit to Circle Telecom Training Centre (CTTC), BSNL Indore on 6 August 2019 for students of III year.

### Objective

The objective of the visit is to provide students with practical exposure to the telecommunication industry, understand the functioning of telecom infrastructure, and learn about the latest technologies and trends in the field.

### Arrival and Welcome Session


- Registration and document verification.
- Welcome speech by BSNL representative.
- Brief introduction about BSNL and its role in the telecom sector.

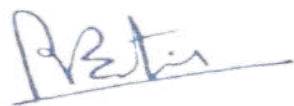
### Introduction to Telecommunication

Overview of telecommunication systems. Explanation of basic telecom concepts and terminologies.

### Tour of Facilities

- Visit to the Switching Room.
  - Explanation of the switching process and equipment.
- Visit to the Transmission Room.
  - Overview of transmission techniques (optical fiber, microwave links, etc.).
- Visit to the Data Center.
  - Introduction to data management and internet services.

  
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## Networking and Infrastructure

- Demonstration of networking equipment (routers, switches, etc.).
- Insights into BSNL's network architecture.
- Understanding the role of BTS (Base Transceiver Stations) in mobile communication.

## Interactive Session with Experts

- Q&A session with BSNL engineers and technical experts
- Discussion on career opportunities in the telecom sector.
- Overview of ongoing projects and future technologies.

## Hands-on Experience

- Practical demonstration of setting up a simple network.
- Basics of troubleshooting common network issues.
- Introduction to telecom software and tools.

## Expected Outcomes

- Enhanced understanding of telecommunication infrastructure and operations.
- Exposure to real-world applications of theoretical knowledge.
- Interaction with industry professionals and networking opportunities.
- Insight into the latest technological advancements and career paths in telecom.

Coordinator –

**Mr. Jayesh Dabi & Mr. Hemant Verma**

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**Photograph of Industrial Visit @BSNL**



*Ad.*

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*Arjit*

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## Report on Industrial visit of

### Raja Ramanna Centre for Advanced Technology (RRCAT), Indore

**Title:** industrial visit of students to Raja Ramanna Centre for Advanced Technology (RRCAT), Indore  
**Date :** 25/02/2024

#### Introduction:

RRCAT is a unit of Department of Atomic Energy, Government of India, engaged in R & D in non-nuclear front line research areas of Lasers, Particle Accelerators & related technologies. RRCAT was established by the Department of Atomic Energy, India to expand the activities carried out at Bhabha Atomic Research Centre (BARC), Mumbai, in two frontline areas of science and technology namely Lasers and Accelerators.

RRCAT is a premier research institution under the Department of Atomic Energy, Government of India. It focuses on R&D in the areas of lasers, particle accelerators, and related technologies. Established in 1986, RRCAT has made significant contributions to scientific research and industrial applications.

#### Objectives:

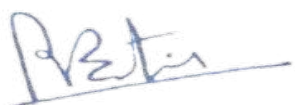
The primary objectives of the visit were:

1. To understand the working principles and applications of lasers and accelerators.
2. To gain insight into the research and development activities at RRCAT.
3. To interact with scientists and researchers to learn about the latest advancements in the field.
4. To observe the practical applications of theoretical concepts studied in the classroom.

#### Execution:

**Introductory Presentation:** An introductory presentation was given, providing an overview of the various research areas, projects, and achievements of RRCAT.

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This included information on laser technology, synchrotron radiation sources, and free-electron lasers.

## Laboratory Tours:

**Laser Laboratory:** Students were taken to the laser laboratories where they observed the setup and functioning of different types of lasers. The principles of laser generation, amplification, and applications in various fields were explained.


**Accelerator Laboratory:** The group visited the accelerator facilities, including the Indus-1 and Indus-2 synchrotron radiation sources. Detailed explanations were provided on how particle accelerators work and their applications in material science, biology, and medical sciences.

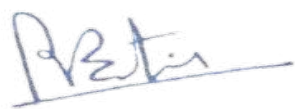
## Demonstrations:

Various live demonstrations showcased the practical applications of laser technology in industry and medicine. This included laser cutting, welding, and medical imaging techniques.

## Interaction Session:

An interactive session with scientists and researchers allowed students to ask questions and discuss their queries. This session provided deep insights into the ongoing research projects and career opportunities in the field of advanced technology.

  
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**Conclusion:** The industrial visit to Raja Ramanna Centre for Advanced Technology (RRCAT) in Indore was a highly educational and inspiring experience for the students. It provided a unique opportunity to observe the cutting-edge research and technological advancements in the fields of lasers and particle accelerators. The visit effectively bridged the gap between theoretical knowledge and practical application, enhancing the students' understanding of complex scientific concepts and their real-world applications.

The exposure to advanced technological facilities and interaction with experienced scientists and researchers not only deepened the students' knowledge but also inspired many to consider careers in research and development. The insights gained during this visit are invaluable and will undoubtedly contribute to the students' academic and professional growth.

**Coordinator –**

**Ms. Neha Singh Rathaur**

  
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Photograph of Industry Visit RRCAT, Indore



*Ad.*

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*Prateek*

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## **6. Report and Photographs of Yoga & Cultural activities**



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## Report on International Yoga Day Celebration at SVCE

### Introduction:

On June 21, 2023, Swami Vivekanand Group of Institutions (SVGI) celebrated International Yoga Day with great enthusiasm and active participation from both faculty and students. The event was held at the Basketball Court within the institute's campus, aligning with the global observance of Yoga Day.

### Event Details:

**Date:** June 21, 2023

**Venue:** Basketball Court, Swami Vivekanand Group of Institutions

**Participants:** Faculty and students from SVGI, including SVCP and SVCE

### Objective:

To promote awareness about the importance and benefits of yoga, fostering a culture of physical and mental well-being among the students and the staff of SVGI.

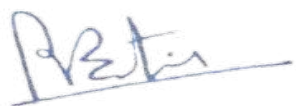
### Activities:

The event commenced with an inspiring speech by Dr. P.K. Dubey, who highlighted the significance of yoga in daily life and its various health benefits.

### Participants engaged in a series of activities:

Warm-up Exercises: Light exercises to prepare the body for yoga.

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Yoga Asanas: Under the guidance of Sports Officer Ramendra Yadav the following six asanas were performed:

**Surya Namaskar (Sun Salutation)**

**Tadasana (Mountain Pose)**

**Vrikshasana (Tree Pose)**

**Virabhadrasana (Warrior Pose)**

**Trikonasana (Triangle Pose)**

**Ardha Chakrasana (Half Wheel Pose)**

## **Conclusion:**

The International Yoga Day celebration at SVGI was a resounding success, thanks to the enthusiastic participation of students and staff. Special thanks are due to Director Sachin Mishra, Principal of SVCP Dr. P.K. Dubey, and Principal of SVCE Dr. Pradeep Patil for their support and presence. The event underscored the institute's commitment to promoting a healthy lifestyle and the holistic development of its members. We look forward to continuing this tradition and incorporating the principles of yoga into our daily routines.

## **Acknowledgments:**

We extend our heartfelt gratitude to all the members of SVGI for making this event a memorable and impactful one.

Mr. Ramendra Yadav  
Sports Officer, SVGI, Indore

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**Photograph of Yoga Day**




  
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Photograph of Yoga Day



  
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## Report on Cultural Day during induction program -2022 At SVCE

**Date -04/11/2022**

**Venue- SVCE, Indore**

SVCE has organized a grand “Induction Program” for newly arrived Batch of B Tech /Diploma/MBA First Semester 2022-2023 from 02/11/2022 to 04/11/2022. **The 3 days program started with** “Maa Saraswati Poojan” followed by addresses from Mr. Sachin Mishra Sir, Director, SVGI, Dr Pradeep K Patil Sir, Principal SVCE, Mr. Suresh Sharma Sir, AO. Inaugural Function concluded with welcome speeches from all HOD(s).

### **Introduction-**

The Cultural Day was a vibrant celebration of diversity, this event serves as a platform for students to express themselves through various artistic and cultural expressions.

**Highlights of the Event-**For the newly admitted students many activities conducted during these 3 days. The most awaited event was Cultural Activity. First year and second year students participated in Dance, Music and Drama activities. Students were exhibited their talent with full courage.

### **Conclusion-**

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The Cultural Day at [Insert College Name] was a resounding success, fostering a sense of unity amidst diversity and celebrating the richness of cultures represented within our campus. It not only entertained but also educated, encouraging students to appreciate and respect cultural differences.

## Acknowledgments-

We extend our heartfelt gratitude to all participants, volunteers, faculty members, and sponsors whose efforts made this event possible. Their dedication and enthusiasm contributed immensely to the success of Cultural Day at SVCE. This venture could be organized successfully due to constant encouragement of Hon. Shri Anoop Mishra Sir, Chairman, SVGI. I am grateful to him for the readiness to support all of us, all the time.

Coordinator  
Dr. Manik Welanka

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**Photograph of Cultural Day during Induction Program -2022**





*Ad.*  
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KHANDWA ROAD, INDRF

*Arjun*  
PRINCIPAL  
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**Photograph of Cultural Day during Induction Program -2022**



  
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**Photograph of Tech-fest**



*Ad.*

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*Pratibha*

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## **7. Report and photographs of activity under Woman Empowerment Cell “SWASTI”**



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SVCE/PRI/2019-20/WD/01

Date: 01/03/2019

## Notice

All female teaching and non-teaching staff are hereby invited to Swami Vivekanand College of Engineering's celebration of International Women's Day on 08/03/2019, scheduled at the open amphitheatre from 01:00 PM to 3:30 PM. All girls students interested in participating in singing, skit, speech or dancing activities are kindly requested to submit their names to Dr. Manik Walanker on or before 04/03/2019.

**Principal**  
SVCE, Indore

CC:

1. Director, SVGI
2. Vice Principal
3. Administrative Officer
4. All Concerned Staff
5. Notice Board

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## Report on Celebration of International Women's Day at Swami Vivekanand College of Engineering

### Introduction:

International Women's Day is celebrated worldwide on March 8th to honor the social, economic, cultural, and political achievements of women. Swami Vivekanand College of Engineering, recognizing the significance of this day, organized a special event to commemorate the achievements and contributions of women.

### Event Details:

The celebration took place on March 8<sup>th</sup>, 2019, at Swami Vivekanand College of Engineering from 1:00 PM to 4:00 PM. The event aimed to empower and celebrate the women in the college community. It featured various performances and activities showcasing the talents and capabilities of female students.

### Objective:

To celebrate the spirit of womanhood, promote gender equality, and create awareness about women's rights and issues.

### Activities:


The event included a variety of activities and performances:


**Singing and Dance Performances:** Female students showcased their talents through singing and dance performances, adding vibrancy and energy to the event.

**Speech:** Inspirational speeches were delivered by female students, faculty members, and invited guests, emphasizing the importance of gender equality and women empowerment.

**Skit Activity:** A skit focusing on women's empowerment, gender stereotypes, and societal challenges was performed, aiming to provoke thought and initiate discussions.

**Mental Songs Performance:** Female students participated in a mental songs performance, captivating the audience with their creativity and talent.

  
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## Conclusion:

The celebration of International Women's Day at Swami Vivekanand College of Engineering was a resounding success, bringing together students, faculty, and guests to honor and celebrate the achievements of women. Through various activities and performances, the event effectively highlighted the importance of gender equality and women empowerment, leaving a lasting impact on the college community.

**Dr Manik Welankar**

**Event Coordinator**

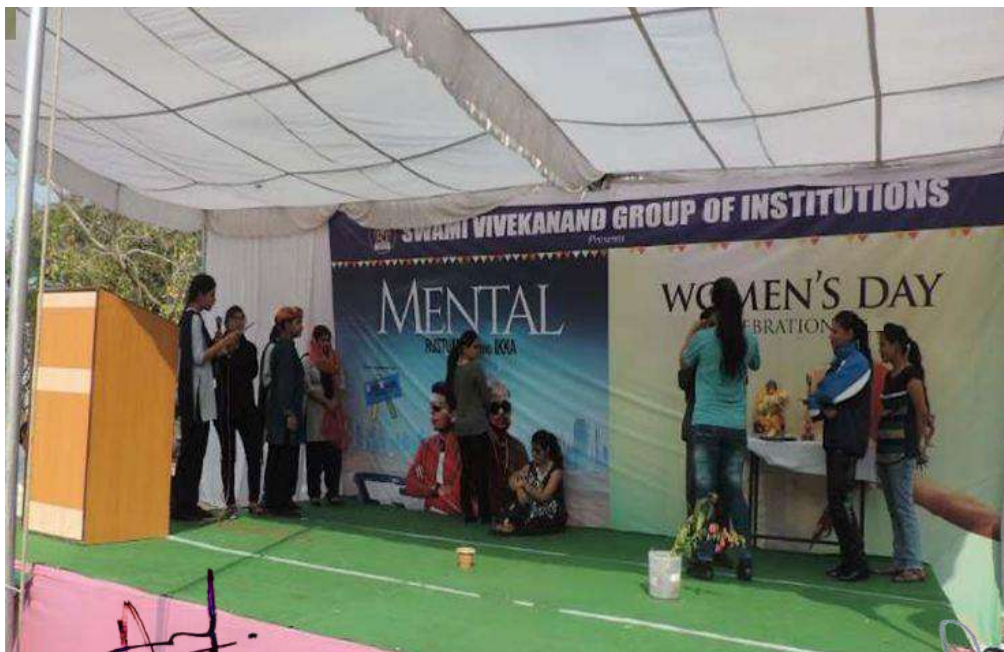
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**Photograph of Celebration of International Women's Day**



**Photograph of Celebration of International Women's Day**





*A. J.*  
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*P. S. S.*  
PRINCIPAL  
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**Photograph of Celebration of International Women's Day**



  
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SVCE/PRI/2021-22/WD/01

Date: 01/03/2022

## Notice

All female teaching and non-teaching staff are hereby invited to Swami Vivekanand College of Engineering's celebration of International Women's Day on 08/03/2022, scheduled at the Engineering Seminar Hall from 01:00 PM to 3:30 PM. Female staff members interested in participating in singing or dancing activities are kindly requested to submit their names to Dr. Manik Walanker on or before 04/03/2022.

Principal  
SVCE, Indore

CC:

1. Director, SVGI
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## Report on Celebration of International Women's Day at Swami Vivekanand College of Engineering

### Introduction:

On March 8, 2022, Swami Vivekanand College of Engineering (SVCE) joyously commemorated International Women's Day within the welcoming confines of the SVCE Auditorium. The event aimed not only to celebrate the spirit and achievements of women but also to foster an atmosphere of unity, empowerment, and recognition.

### Event Details:

The celebration took place at the SVCE Auditorium, spanning from 1:00 PM to 4:00 PM. It was an engaging congregation that brought together the esteemed lady faculty members of SVCE to partake in various enriching activities and discussions.

### Objective:

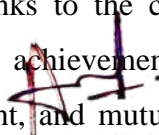
To honor the essence of International Women's Day by acknowledging the invaluable contributions of women in various spheres of life. Additionally, it sought to provide a platform for female faculty members to bond, share experiences, and inspire one another.

### Activities:

The event commenced with an opening note delivered by Ms. Neha Khandelwal, the Vice Principal of SVCE, setting a tone of reverence and enthusiasm. Subsequently, the lady faculty immersed themselves in a series of engaging activities including Dumb Charades, Antakshari, captivating Dance performances, soulful Poem Recitations, and a thought-provoking Talk based on personal experiences. Each activity was meticulously designed to celebrate the multifaceted talents and strengths of women while fostering camaraderie among the faculty members

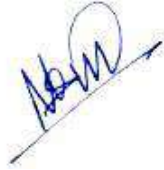
### Conclusion:

In conclusion, the International Women's Day celebration at SVCE was a resounding success, thanks to the collective effort and enthusiasm of all participants. It not only honored the achievements of women but also underscored the significance of unity, empowerment, and mutual support. As SVCE continues its journey towards excellence,

  
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events like these serve as poignant reminders of the invaluable contributions of women in shaping a brighter future for all.



**Dr Manik Welankar**  
**Event Coordinator**



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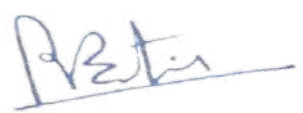
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**Photograph of the "SWASTI" Women Empowerment Cell of SVCE**



  
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**Photograph of the "SWASTI" Women Empowerment Cell of SVCE**



*Ad.*  
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*Pratish*  
PRINCIPAL  
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**7. Reports and Photographs of girl student's participation  
in NCC,  
Athletic nodal tournament and field visit.**



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## Report on

### Swami Vivekanand College of Engineering's Association with M.P. Girls Battalion NCC

#### Introduction:

Swami Vivekanand College of Engineering, renowned for its dedication to comprehensive growth, has forged a significant partnership with the 1 M.P. Girls Battalion NCC. This collaboration aims to empower young women by providing them with opportunities for skill development, leadership training, and fostering a sense of national pride and discipline.

#### Objective:

To collaboration is offer to students from Swami Vivekanand College of Engineering the opportunity to join the NCC, thereby enabling them to develop essential life skills such as leadership, teamwork, discipline, and a spirit of service to the nation. By participating in NCC activities, students can also enhance their physical fitness, mental agility, and overall personality development.

#### Activities:

**Training Sessions:** Once selected, the students will undergo rigorous training sessions conducted by experienced NCC officers, focusing on drills, weapon handling, first aid, and disaster management.

**Campus Events:** Various NCC-related events, such as awareness campaigns, guest lectures, and cultural activities, will be organized on campus to promote the values and objectives of the NCC

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**Community Service:** Students will engage in community service projects, such as cleanliness drives, blood donation camps, and rural development initiatives, under the guidance of NCC authorities

## **Conclusion:**

The collaboration between Swami Vivekanand College of Engineering and the 1 M.P. Girls Battalion NCC marks a significant milestone in the college's efforts towards holistic student development. By providing young women with the opportunity to join the NCC, the college reaffirms its commitment to nurturing socially responsible citizens and future leaders. This partnership not only enriches the educational experience of students but also contributes to the larger goal of nation-building through youth empowerment.

Mr. Vishal Wankhade  
Faculty Coordinator NCC  
SVCE, Indore

IQAC COORDINATOR  
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COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORF

PRINCIPAL  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORF

**Photograph of NCC activity**



*Ad.*  
IQAC COORDINATOR  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORE

*Pr. S. S.*  
PRINCIPAL  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORE

**Photograph of NCC activity**



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COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDRF**

**PRINCIPAL  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDRF**



# Swami Vivekanand College of Engineering

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Campus : Khandwa Road, Indore-452020 (M.P.) Phone : +91- 07324-405000

• Email : info@svceindore.ac.in • Website : www.svce.vivekanandgroup.com

Date: 15 November 2019

## State Level tournament Result Report

With immense pleasure, I would like to share that Indore Kho-Kho Girls and Boys Team got 2nd position in Kho-Kho **State Level tournament** which was held on 12/11/2019 to 13/11/2019 at **V.I.T.S, Satana.**

Some of our bright students were part of that team like **Varsha Turukmane, Sarita Yadav, David Damor** etc. Our student **David Damor** is selected for **National in Kho-Kho.**

**"Congratulations to these students on their well-deserved success."**

Mr. Ramendra Yadav  
Sports Officer. SVGI, Indore

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KHANDWA ROAD, INDORE

PRINCIPAL  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORE



**Photograph of girls student participation in State Level tournament**



*Ad.*


**IQAC COORDINATOR  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDRF**

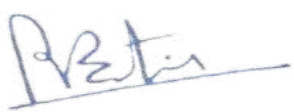
*Pratish*

**PRINCIPAL  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDRF**

**Photograph of girls student participation in State Level tournament**



  
IQAC COORDINATOR  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORE

  
PRINCIPAL  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORE

**Photograph of the State Level tournament**



*AJ.*  
IQAC COORDINATOR  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORE

*Arjun*  
PRINCIPAL  
SWAMI VIVEKANAND  
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## Report

on

## Industrial Visit DMIC, Vikram Udyogpuri Ltd

**Date:** 18th March, 2019

### Introduction-

T&P Department of SVGI, Indore has successfully organized Industrial Visit of Electrical Engineering students (1st Year to 4th Year) on 18th March, 2019 at **DMIC, Vikram Udyogpuri Ltd.**

DMIC, Vikram Udyogpuri Limited is a Private incorporated on 18 March 2010. It is classified as State Govt Company and is registered at Registrar of Companies. Its authorized share capital is Rs. 1,500,000,000 and its paid up capital is Rs. 1,128,600,060. It is involved in Business activities.

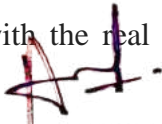
**Objectives-** The objectives of the visit are to provide students with practical exposure to the Electricity distribution, understand the functioning of Transmission systems, and learn about the latest equipments and process in the field.

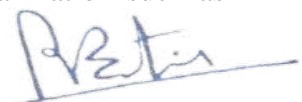
### Visit Highlights-

We successfully organized this industrial visit of around 100+ students where they got the insight knowledge and **working of Transmission systems, advanced Transformer and Power Supply management.** It has been a nice experience by the students and in future we will arrange more such visits in respective domain for make our students industry ready.

### Conclusion:

As per the part of the curriculum, student's Industrial visit is mandatory, so as to provide them with the real insight of working procedure of an esteemed organization such as DMIC,

  
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**Acknowledgement:** We are thankful to Management, Director, Dr P K Dubey Sir, Principal Dr R S Tare Sir and Vice Principal Dr P Patil Sir for guiding and supporting us. We are also thankful to Dr. Dev Kumar Roy Sir and their team to be part of this Industrial Visit.

Coordinator

Mr. Gourav Verma

  
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PRINCIPAL  
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KHANDWA ROAD, INDORE

**Photographs of Industry Visit DMIC, Vikram Udyogpuri Ltd.**



*A*  
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KHANDWA ROAD, INDORE

*P. P. Patil*  
PRINCIPAL  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORE

## 9. Details of various committees to conduct the activities



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## Swami Vivekanand College of Engineering, Indore Tech Fest - Taarunyam 28-30 Nov 2022

### TECHNICAL EVENTS

Sr	Event Name	Faculty Coordinator	Student Coordinator	Group member & Ticket details
1	Bridge making competition	Sakshi Thora	Karan Alave (9754270508)	(Group-3) 150
2		Sharad Chaurasia		
3	Structure by Cards	Megha Garg	Atul Kourav (8103560698)	(Group-2) 50
4		Meenakshi Prajapati		
5	Science Exhibition	Priyanka Potghan	Sneha Gora (9770354589)	(Group-4) 50
6		Diksha Kshatriya		
7	Auto CAD Drafting	Ajay Bhargava	Yuvraj Goud (9691265136)	(Solo)100
8		Archana Kashyap		
9	Engine Assembly	Mayank Ladha	Abdul Latif Multaniv (7869806294)	(Group-4) 200
10		Vishal Wankhade		
11	Water Rocket	Rahul Joshi	Vinit Khade (6268379656)	(Group-2) 50
12		Ansar Ahmed		
13	Blind Fold Tying	Amisha Jain	Sahil Chamoli (7880044156)	(Solo) 50
14		Rekha Yadav		
15	Coding Mania/Error Finding	Dr. Dharmendra Choukse	Sahil Khan (7024830751)	(Solo) 50
16		Priya Sen		
17	Gaming Mania	Praneeta Bisen	Abhinav Dewda (6264372063)	(Solo) 50 /(Squad) 200
18		Sapna Parmar		
19	Escape room	Anubhav Varshney	Manish Jaat (9667258475)	(Solo) 50
20		Manisha Gaur		
21	Robo Race	Jayesh Dabi	Arjun Gautam (9893235552)	(Group-4) 200
22		Ravindra Sharma		

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## SPORTS

Sr.	Event Name	Faculty Coordinator	Student Coordinator
1	Cricket(Boys)	Mr. Brajesh Upadhyay	Nitin Yuvne (8462021817)
2		Mr. Anubhav Varshney	
3	Kho-kho(Girls)	Mr. Vijay Mishra	Sapna Patel (9589350755)
4		Ms. Kirti Sinnkhedkar	
5	Kabbadi(Boys)	Mr.Doulat Singh Lodhi	Nikhil Chouhan (9993435902)
6		Mr. Mahesh Kumar Patidar	
7	Vollyball(Boys)	Mr. Vinod Goud	Siddharth Rathore (7489481091)
8		Dr. Mayank Ladha	
9	Badminton(Girls)	Dr. Rahul Joshi	Teena Mansuri (9302718815)
10		Mr. Shrikant Choudhary	
11		Ms. Deeksha Kshatriya	
12	Sitoliya(Girls)	Mr. Raheesh Aehmad	Deepmala(IT-9302921347)
13		Mr. Sandeep Badlani	
14		Ms. Meenakshi Prajapati	

  
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## **10. Notices of Women Grievance Cell committee**



# Swami Vivekanand College of Engineering

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Date: 28.06.2019

## NOTICE

With a view to providing an opportunity to air their grievances, a grievances cell to handle the issues of girl's students/female faculties has been formed with the following members of the faculty:

1. Mrs. Manik Welankar	Assistant Professor	COE	(Convener)
2. Mrs. Megha Soni	Assistant Professor	COE	(Member)
3. Mrs. Neha Khandelwal	Assistant Professor	COE	(Member)
4. Mrs. Sugandha Parse	Assistant Professor	COE	(Member)
5. Mrs. Pooja Tiwari	Assistant Professor	COP	(Member)
6. Mr. Goutam Verma	Assistant Professor	COE	(Member)


The cell will meet from time to time (and as per requirement) to discuss the issues and take appropriate steps to redress the grievances, if any. The cell should also recommend to the management measures required on various issues needing attention of the management. The functions of the cell will be to:


1. Attend to the problems faced by the girl's student/female faculties individually and/or collectively.
2. Give passionate listening to the issues raised by the girl students.
3. Handle the issues with sensitivity.
4. Recommend measures required to be introduced for proper redressal of the grievances.

  
Dr. Arun K. Tyagi  
Group Director

CC:

1. Secretary for information
2. PS to Group Director
3. All Principals
4. HOD's
5. T&P Cell

  
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Date: July 6, 2019

## Notice

Sir / Madam,

You are requested to convey the information, to the teaching and non-teaching lady staff of your deptt., regarding the formal meeting of women's grievance cell to be held today i.e. on 06/07/2019 at 02:00 pm in room no. 215 in the Engg. building.

**Dr Manik Welankar**  
Event Coordinator

..

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PRINCIPAL  
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KHANDWA ROAD, INDORF

## **11. Notice, Report and Photographs of Tree plantation**



# Swami Vivekanand College of Engineering

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SVCE/PRI/2022-23/47

Date: 05/06/2023

## Notice

Swami Vivekanand College of Engineering is organizing a Plantation Drive in the college campus on 08th June 2023 from 11:00 AM onwards. All students and staff are cordially invited to participate in this event.

Principal

SVCE, Indore

CC:

1. Director, SVGIs
2. Vice Principal
3. Administrative Officer
4. Notice Board

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## Report on Plantation Drive on 08/06/2023

### Introduction:

On 8th June 2023, a plantation drive was organized to promote environmental conservation and sustainability. The drive aimed to raise awareness about the importance of trees in mitigating climate change and enhancing biodiversity.

### Event Details:

Date: 8<sup>th</sup> June 2023

Location: Indore

Organised by: Swami Vivekanand College of Engineering

### Objective:

To contribute to environmental conservation efforts and promote a greener, healthier environment. The drive also aimed to engage participants in a hands-on activity that would foster a sense of responsibility towards the environment.

### Activities:

During the plantation drive, participants planted saplings of native tree species. They were provided with information about the benefits of each species and how their planting would contribute to the local ecosystem. Participants also took part in a brief orientation session on the importance of trees in combating climate change.

### Conclusion:

In conclusion, the plantation drive on 8th June 2023 was a successful initiative that contributed to environmental conservation and community engagement. Such drives play a crucial role in promoting environmental stewardship and building a sustainable future.

**Mr. Vishal Wankhade**  
Event Coordinator

**IQAC COORDINATOR**  
**SWAMI VIVEKANAND**  
**COLLEGE OF ENGINEERING**  
**KHANDWA ROAD, INDORE**

**PRINCIPAL**  
**SWAMI VIVEKANAND**  
**COLLEGE OF ENGINEERING**  
**KHANDWA ROAD, INDORE**

**Photographs of Plantation Drive**



**IQAC COORDINATOR  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDRF**

**PRINCIPAL  
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SVCE/PRI/2021-22/87

Date: 12/11/2021

## Notice

Swami Vivekanand College of Engineering is organizing a Plantation Drive in the college campus on 13<sup>th</sup> November 2021 from 10:00 AM onwards. All students and staff are cordially invited to participate in this event.

**Principal**

**SVCE, Indore**

CC:

1. Director, SVGIs
2. Vice Principal
3. Administrative Officer
4. Notice Board

**IQAC COORDINATOR  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORF**

**PRINCIPAL  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORF**

# Report on Plantation Drive in Induction Program on

13/11/2021

## Introduction:

As part of the induction program, a plantation drive was organized on 13th November 2021. The drive aimed to instill a sense of environmental responsibility and promote sustainable practices among the participants.

## Event Details:

Date – 13<sup>th</sup> November 2021

Location- SVCE, Indore

Organized by – Swami Vivekanand College of Engineering

Type of Program- Plantation drive

## Objective:


To create awareness about the importance of environmental conservation and encourage participants to contribute to greening initiatives. The drive also aimed to foster a sense of community and teamwork among the participants.


## Activities:

During the plantation drive, participants were actively involved in planting saplings. They were provided with information about the types of saplings, their significance in the local ecosystem, and how to care for them. Participants were also encouraged to share their thoughts and experiences related to environmental conservation.

## Conclusion:

In conclusion, the plantation drive in the induction program was a successful initiative that contributed to environmental conservation and community engagement. Such activities are essential for fostering a culture of sustainability and responsibility towards the environment.

  
Dr. Manik Welankar  
IQAC COORDINATOR  
Event Coordinator  
SWAMI VIVEKANAND  
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KHANDWA ROAD, INDORE

  
PRINCIPAL  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORE

## Plantation Program-2021



*Ad.*

IQAC COORDINATOR  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDRF

*Arjit*

PRINCIPAL  
SWAMI VIVEKANAND  
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**12. Report and Photographs of Industry visit  
at  
JASH Engineering Ltd.**



# Swami Vivekanand College of Engineering

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## Report on Industry Visit at JASH Engineering Ltd.

**Title:** Industry Visit carried out at JASH Engineering Ltd.

**Visit Date:** 23/07/2019

**Place:** JASH Engineering Ltd INDORE

### Introduction:

Mechanical Engineering students of II Year / III SEM visited to the Jash Engineering Ltd, 31, Sector-C, Industrial area, Sanwer Road, Indore Jash Engineering Limited is an ISO-9001:2008 company manufacturing wide range of equipment for **Water Intake Systems, Water and Waste Water Pumping Stations and Treatment Plants, Storm Water Pumping Stations, Water Transmission Lines, Power, Steel, Cement, Paper & Pulp, Petrochemicals, Chemical, Fertilizers and other process plants.**


### Objective:


The visit aimed to bridge the gap between theoretical knowledge and practical applications, giving attendees insight into industry operations, manufacturing processes, and corporate culture.

### Visit Highlights

The visit commenced with a welcome session where representatives from JASH Engineering Ltd. provided an overview of the company's history,

During the visit students get knowledge about the fabrication of water treatment plant equipments such as screen, screw conveyor, elevators, stop valves, gates and fabrication of process plant equipments such as tanks, bulk solid handling equipment, hydro power equipments etc. Students were guided at the plant by **Mr. Rahul Nandwal and Mr. Atul Dhakad** (Assistant Professor Mechanical Engineering Department).mission, and product range.

  
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SWAMI VIVEKANAND  
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## Learning Outcomes


The visit provided several key takeaways:

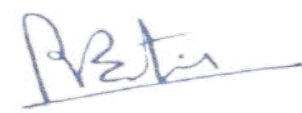
- **Technical Knowledge:** Enhanced understanding of industrial manufacturing processes and modern engineering technologies.
- **Career Insights:** Information about career paths, required skills, and the work environment in a leading engineering firm.
- **Real-World Applications:** Connection between theoretical concepts learned in the classroom and their practical applications in industry.

**Conclusion:** The industry visit to JASH Engineering Ltd. was a significant educational experience, offering practical insights into engineering practices and operations. It successfully met its objectives, enriching the participants' knowledge and inspiring future career aspirations in the engineering sector.

**Coordinator –**


**Mr. Rahul Nandwal and Mr. Atul Dhakad**


  
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**Industrial visit at JASH Engineering Ltd. 23/07/2019**



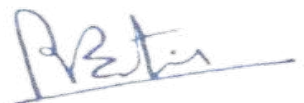
  
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PRINCIPAL  
SWAMI VIVEKANAND  
COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORE

## **13. Report and Photographs of Industry visit of sewage treatment plant and Plantation**



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COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORE



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## Report on Industry visit of sewage treatment plant and Plantation activity conducted by IWWA

Date: 07/08/2019

Place: Sewage Treatment Plant, Indore

### Introduction-

Civil Engineering Department has successfully conducted a one-day Training programme and Industrial visit on “Sewage Treatment Plant” on 07/08/2019 for civil engineering students as a point of view of Institute Industry Interaction under the joint flagship of Swami Vivekanand College of Engineering & Indian Water Works Association.

The Indian Water Works Association (IWWA) is a voluntary body of professionals concerned and connected with water supply for municipal, industrial, agricultural uses and treatment and disposal of wastewater. IWWA focuses basically on the entire Water Cycle “encompassing the environmental, social, institutional and financing issues. IWWA was founded in 1968 with headquarters at Mumbai. IWWA has 32 centers spread across the country and is very active in conducting different activities in the areas of Water Supply and Wastewater Treatment and Disposal. IWWA has a membership of more than 9000 plus professionals spread all over the country and abroad.

### Program Highlights

The whole Programme was conducted in four Phases as follows-

1st Phase at 11:00 P.M: (Inauguration Ceremony) Programme started with a lamp lighting ceremony and Sarswati Vandana Our Students Addressed by the Honourable members of IWWA they gave information about the reuse of wastewater and water conservation and motivate the students to join IWWA and share their experience with students.

2nd Phase 11:30 P.M: (Tree Plantation) “The purpose of tree plantation is saving the endangered environment and to beautify our life.” In the presence of Honourable members of IWWA and Principal of SVCE, Civil engineering department & student plant tree in college premises.

3rd Phase at 12.00 P.M.: (Technical Lecture) Mr. K K Shrivastava, Project Head, Global Environmental Consultant & Secretary IWWA Gwalior, delivered a wonderful lecture on Sewage Treatment plant design. He briefed about the latest technology used in STP design, Basic design consideration, Design period, Planning and made aware the students about Sewer GEMS the

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# Swami Vivekanand College of Engineering

(Approved by: AICTE, New Delhi • Affiliated to RGPV, Bhopal and DAVV, Indore • Recognised by : DTE Govt. of MP)

Campus : Khandwa Road, Indore-452020 (M.P.) Phone : +91- 07324-405000

• Email : info@svceindore.ac.in • Website : www.svce.vivekanandgroup.com

software of Sewer Network Design.

4th Phase at 1.30 P.M.: (Technical Visit) Students saw different units and understand the working of Sewage Treatment Plant situated at Kabit khedi, MR10 road as follows-

- Grit Chamber
- Aeration tank
- Sedimentation tank
- Thickeners
- Chlorination tank

## Conclusion:


Participants got an opportunity to witness practical applications of waste water treatment technologies in an industrial setting. The visit provided valuable insights into the challenges and opportunities faced in managing wastewater.


## Acknowledgment :

We are very much thankful to Mr. Komal Prasad, Honourable Secretary-General IWWA India, Mr. Vijay Charate, Chairman, IWWA Indore & editor Midscreen, Mr. Noor Mohmad Qureshi, Secretary-General, IWWA Indore Center for this wonderful visit and accepting our invitation to for the technical lecture. Civil Engineering department is greatly thankful to our Group Director Sir, Principal Sir & Management for approving the training program & visit on very short notice.

Coordinator


Mr. Anshuman Nimade


  
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## Photograph of Tree Plantation at SVCE



  
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**Photographs of the Industrial visit @ sewage treatment plant**

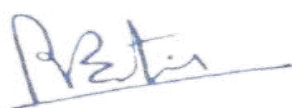


*A. J.*  
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*P. V. S.*  
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## 14. Photograph of solar panels installed in SVCE

  
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**Photographs of solar panels installed in SVCE**



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*Pratish*  
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COLLEGE OF ENGINEERING  
KHANDWA ROAD, INDORE**

## **15. Documents of energy audits**

- 
- Energy Audit • Thermography • Harmonic Analysis • Water Audit • Electrical & Fire Safety Audit • Green Audit • ECBC Consultant
  - Energy Simulation • Industrial Training & Workshop • IoT Energy Monitoring System • Heat Pump • Solar Projects and Consultant
- 

Ref No: EEPL/2023-24/C-010

Date: - 12-06-2023

### ENERGY AUDIT CERTIFICATE

This is to certify that Empirical Exergy Private Limited (EEPL) Indore M.P. has conducted energy audit at **Swami Vivekanand College of Engineering, Khandwa road, Indore (M.P.)** for the academic Year 2022-23.

The activities and measures carried out by **Swami Vivekanand College of Engineering, Indore (M.P.)** have been verified and were found to be acceptable. The positive approach of the management towards saving energy is highly valued and commendable.

This certificate is being issued on the basis of audit conducted by EEPL.

For- **Empirical Exergy Private Limited**



12/06/2023

**Rajesh Kumar Singariya (Director)**

M.Tech (Energy Management), PhD (Research Scholar)

Accredited Energy Auditor [AEA-0284]

Certified Energy Auditor [CEA-7271]

(BEE, Ministry of Power, Govt. of India)

Empanelled Energy Auditor with MPUVN, Bhopal M.P.

Lead Auditor ISO50001:2011 [EnMS] from FICCI, Delhi

Certified Water Auditor (NPC, Govt of India)

Chartered Engineer [M-1699118], The Institution of Engineers (India)

Member of ISHRAE [58150]



An ISO 9001:2015 Certified Company



- Energy Audit • Thermography • Harmonic Analysis • Water Audit • Electrical & Fire Safety Audit • Green Audit • ECBC Consultant
- Energy Simulation • Industrial Training & Workshop • IoT Energy Monitoring System • Heat Pump • Solar Projects and Consultant

Ref No: EEPL/2023-24/C-011

Date: - 12-06-2023

### ENVIRONMENTAL AUDIT CERTIFICATE

This is to certify that Empirical Exergy Private Limited (EEPL) has conducted environmental audit at **Swami Vivekanand College of Engineering, Khandwa road, Indore (M.P.)** the academic Year 2022-23.

The activities and measures carried out by **Swami Vivekanand College of Engineering, Khandwa road, Indore (M.P.)** has been verified and was found to be acceptable. The positive approach of the management towards sustainable development is highly valued and commendable.

This certificate is being issued on the basis of audit carried out by EEPL.

For- **Empirical Exergy Private Limited**



*Rajesh Kumar Singadiya*  
12/06/2022

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Ref No: EEPL/2023-24/C-012

Date: - 12-06-2023

### GREEN AUDIT CERTIFICATE

This is to certify that Empirical Exergy Private Limited (EEPL) has conducted green audit at **Swami Vivekanand College of Engineering, Khandwa road, Indore (M.P.)** for the academic Year 2022-23

The activities and measures carried out by **Swami Vivekanand College of Engineering, Indore (M.P.)** has been verified and was found to be acceptable. The positive approach of the management towards green campus and sustainable development is highly valued and commendable.

This certificate is being issued on the basis of audit carried out by EEPL.

For- **Empirical Exergy Private Limited**



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