

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

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Summary of Crosscutting Issues address through the Curriculum.

S. No.	Category	Branch	Sem.	Subj. Code	Subject Name
1	Environment and Sustainability	ALL	IV	ES 401	Energy & Environment Engineering
2		CE	V	CE 504(C)	Renewable energy resources
3		CE	VI	CE 602	Environmental Engineering, I
4		CE	VII	CE 702 (B)	Environmental Engineering II
5		Chem	VII	CM 703(A)	Environment Engineering
6		CE	VI	CE 604(C)	Environmental Impact Assessment
7		CE	VII	CE 703 (C)	Integrated Waste Management
8		CE	VIII	CE 802 (D)	Earthquake Resistant Design of Structures
9		Chem	V	CM 504(C)	Energy Management
10		ME	VI	ME 604(C)	Renewable Energy Technology
11		ME	VIII	ME 803(B)	Energy Conservation, Management & Audit
12		CSE	VII	CS 703(D)	Disaster Management
13		ALL	I & II	BT 108	Swachh Bharat Summer Internship
14		CE	VI	CE 603	Water resources engineering
15	Human Values & Professional Ethics	ALL	I	BT 206	Language Lab & Seminars
16		ALL	I	BT 103	English for Communication
17		IT	V	IT 506	Soft Skills and Interpersonal Communication
18		CSE	VI	CS 604(C)	Rural Technology & Community Development
19		CSE	VIII	CS 803(D)	Managing Innovation and Entrepreneurship
20		CSE	VI	CS 604(A)	Knowledge Management
21		EC	IV	BT 408	Cyber Security
22		CE	IV	BT 408	Cyber Security
23		CSE	IV	BT 408	Cyber Security
24		CSE	V	CS 503(C)	Cyber Security
25		ME	VIII	ME 803(C)	Entrepreneurship and Management Concepts
26		ME	VII	ME 703(C)	Systems Engineering
27		ME	V	ME 504(A)	Industrial Engineering & Ergonomics
28		Chem	VIII	CM 802(B)	Process safety & Hazards Management

29		IT	VIII	IT 801	Information Security
30		IT	VII	IT-703(A)	Cyber Laws and Forensics
31		IT	VI	IT-604(A)	Intellectual Property Rights
32		IT	V	IT 504(B)	E Commerce & Governance
33		CE	V	CE 504(D)	Entrepreneurship development and management
34		All	IV	BT409	Indian Knowledge System
35		All	III	BT308	Indian Constitution



Summary of Crosscutting Issues address through the Activities.

S. No.	Date	Title	Crosscutting Issues	Participation	Remark
1	05-06-2023	World Environment Day – Solution for Plastic Pollution	Environment and Sustainability	365	Expert Session, Plantation Drive and Pledge
2	17-05-2023	Conservation and Plantation Drive		52	Save Environment Save Life
3	14-12-2022	World Energy Conservation Day - Pledge		114	Pledge
4	19-10-2022	Expert Lecture on Power of Technology and Science		278	Mr. Joydeep Bhaduri, Managing Director Accenture
5	20-10-2022	Abhigyata Parv 2022		352	Plantation Drive
6	22-12-2022	Expert lecture on Professional Ethics	Human Values & Professional Ethics	27	Dr Neena Thakkar
7	15-12-2022	Professional Ethics and Human values		234	Shri Arun S Bhatnagar, Group Advisor, SWES
8	17-11-2022	Expert Lecture on Human Values		30	Dr. Amit Jain, IIST, Indore
9	16-11-2022	Expert Lecture on Professional Ethics		42	Dr. Niraj Soni, Smart City Expert
10	16-11-2022	Expert Lecture on Professional Ethics and Human Values		75	Dr. Samatha Singh & Dr Neena Thakkar
11	17-10-2022	Expert Lecture on importance of Human Values and professional ethics in One's life.		256	Dr. R. K. Khandel, (President R& D and Business Development of Indian Glycols Limited, Nagpur)
12	11-03-2023	Expert Lecture on Women Empowerment	Gender	120	Dr. Brajbala Tiwari
13	31-07-2022	Teej Celebration		50	-
14	06-07-2023	Visit to IIT Indore through Drishti CPS Foundation by IIST Girls Students		16	Visit to IIT Indore



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Environment and Sustainability

Energy & Environmental Engineering

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

III Semester Bachelor of Technology (B.Tech.) [Computer Science and Engineering/
Computer Engineering/Computer Science & Technology]

For batches admitted in July, 17 & July, 18 (w.e.f. July, 2018)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	ES301	HSMC-3	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
2.	CS302	DC-1	Discrete Structure	70	20	10	-	-	100	3	1	-	4
3.	CS303	DC-2	Data Structure	70	20	10	30	20	150	3	-	2	4
4.	CS304	DC-3	Digital Systems	70	20	10	30	20	150	3	-	2	4
5.	CS305	DC-4	Object Oriented Programming & Methodology	70	20	10	30	20	150	3	-	2	4
6.	CS306	DLC-3	Computer Workshop	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at I year level	-	-	-	-	50	50			4	2
8.	BT307	DLC-4	90 hrs Internship based on using various softwares -Internship -II	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.									
Total				350	100	50	120	130	750	15	2	14	24
NSS/NCC													

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal

Branch- Common to All Discipline

ES401	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)

Module 2: Ecosystems

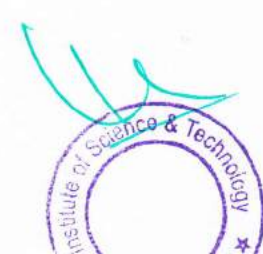
• Concept of an ecosystem; Structure and function of an ecosystem; Producers, consumers and decomposers; Energy flow in the ecosystem; Ecological succession; Food chains, food webs and ecological pyramids; Introduction, types, characteristic features, structure and function of the following ecosystem (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





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Renewable energy resources

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New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech) Civil Engineering (w.e.f. July, 2019)

V Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks	Contact Hours per week			Total Credits		
				Theory			End Sem		Practical		L		T	P
				End Sem	Mid Sem Exam	Quiz/ Assignment			Term work Lab Work & Sessional					
1.	CE-501	DC	Fluid Mechanics I	70	20	10	30	20	150	2	1	2	4	
2.	CE-502	DC	Transportation Engg II	70	20	10	30	20	150	2	1	2	4	
3.	CE-503	DE	Departmental Elective	70	20	10	-	-	100	4	-	-	4	
4.	CE-504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3	
5.	CE-506	D Lab	Quantity surveying & Costing	-	-	-	30	20	50	-	-	4	2	
6.	CE-506	OE Lab	Material Testing Lab	-	-	-	30	20	50	-	-	4	2	
7.	CE-507	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3	
8.		IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.										
9.	CE-508	P	Field Visit, Case Study and Seminar	-	-	-	-	50	50			4	2	
10.	Additional Credits ¹		¹ Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (OJHRD) at respective UG level.											
Total				290	80	40	120	230	750	11	2	22	24	

Departmental Electives	Open Electives
CE503 (A) Structural Analysis-II	CE504 (A) Urban and town planning
CE503 (B) Construction planning and management	CE504 (B) Remote Sensing and GIS
CE503 (C) Quantity surveying & Costing	CE504 (C) Renewable energy resources
CE503 (D) Marine Construction	CE504 (D) Entrepreneurship development and management

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New Scheme Based On AICTE Flexible Curricula

Civil Engineering, V-Semester

Open Elective CE- 504 (C) Renewable Energy Sources

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 Photovoltaic System Solar cell, Solar cell materials, efficiency, Characteristics of PV panels under varying insolation. 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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Environmental Engineering - I

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New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Civil Engineering **(w.e.f. Jan, 2020)**

VI Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks	Contact Hours per week			Total Credits	
				Theory			Practical		L	T	P		
				End Sem.	Mid Sem. Exam	Quiz/ Assignment	End Sem.						Term work Lab Work & Sessional
1.	CE 601	DC	Structural Design and Drawing (RCC-I)	70	20	10	30	20	150	2	1	2	4
2.	CE 602	DC	Environmental Engineering I	70	20	10	30	20	150	2	1	2	4
3.	CE 603	DE	Departmental Elective	70	20	10	-	-	160	4	-	0	4
4.	CE 604	OE	Open Elective	70	20	10	-	-	160	4	-	0	4
5.	CE 605	D Lab	Advance surveying lab	-	-	-	30	20	50	-	-	6	3
6.	CE 606	O/E Lab	Non Destructive Testing Lab	-	-	-	30	20	50	-	-	6	3
7.	CE 607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	CE 608	P	Minor Project II	-	-	-	-	60	60	-	-	4	2
9.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SW-ATAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	130	650	12	2	20	24

Departmental Electives	Open Electives
603 (A) Water resource: engineering	604(A) Fluid Mechanics II
603 (B) Precast and modular construction	604(B) Intellectual Property rights(IPR)
603(C) Advance pavement design	604(C) Environmental Impact Assessment
603(D) Cost effective and Eco-friendly structures	604(D) Operation Research

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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

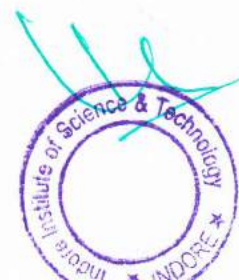
Sewerage schemes and their importance, collection & conveyance of sewage, storm water quantity, fluctuation in sewage flow, flow through sewer, design of sewer, construction & maintenance of sewer, sewer appurtenances, pumps & pumping stations.

Unit - V

Characteristics and analysis of waste water, cycles 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. Hazari
6. Water & Waste Water Technology - G.M. Fair & J.C. Geyer
7. Relevant IS





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Environmental Impact Assessment

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 New Scheme of Examination as per AICTE Flexible Curricula
 Bachelor of Technology (B.Tech.) Civil Engineering (w.e.f. Jan, 2020)

VI Semester

S.No	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	CE601	DC	Structural Design and Drawing (RCC-I)	70	20	10	30	20	150	2	1	2	4
2.	CE 602	DC	Environmental Engineering I	70	20	10	30	20	150	2	1	2	4
3.	CE 603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	CE 604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	CE 605	D Lab	Advance surveying lab	-	-	-	30	20	50	-	-	6	3
6.	CE 606	O/E Lab	Non Destructive Testing Lab	-	-	-	30	20	50	-	-	6	3
7.	CE 607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	CE 608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits ^a		^a Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.										
Total				280	80	40	120	130	650	12	2	20	24

Departmental Electives:	Open Electives:
603 (A) Water resources engineering	604(A) Fluid Mechanics II
603 (B) Precast and modular construction	604(B) Intellectual Property rights(IPR)
603(C) Advance pavement design	604(C) Environmental Impact Assessment
603(D) Cost effective and Eco-friendly structures	604(D) Operation Research

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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.



Integrated Waste Management

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Civil Engineering] (w.e.f. July, 2020)

VII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	CE-701	DC	Geotechnical Engg	70	20	10	30	20	150	2	1	2	4
2.	CE-702	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	CE-703	OE	Open Elective	70	20	10	-	-	100	3	0	0	3
4.	CE-704	D Lab	Prestressed Concrete Structures Lab	-	-	-	30	20	50	-	-	6	3
5.	CE-705	O/E lab	IoT Lab	-	-	-	30	20	50	-	-	6	3
6.	CE-706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	CE-607		Evaluation of Internship -III	-	-	-	-	100	100	-	-	6	3
8.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.										UG	
Total				210	60	30	190	210	700	8	2	28	24

Departmental Electives	Open Electives
702 (A) Prestressed Concrete Structures	703 (A) Internet of Things
702 (B) Environmental Engg-II	703 (B) Project Management
702 (C) Structural Dynamics	703 (C) Integrated Waste Management
702 (D) Structural Design and Drawing (RCC-II)	703 (D) Building Services

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

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 waste 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 waste.

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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Earthquake Resistant Design of Structures

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Civil Engineering] (w.e.f. Jan, 2021)

VIII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CE-801	DC	Design of Steel Structures	70	20	10	30	20	150	2	1	2	4
2.	CE-802	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	CE-803	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
4.	CE-804	D/O/E Lab	Earthquake Resistant Structures Lab	-	-	-	30	20	50	-	-	6	3
5.	CE-805	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.										UG	
Total				210	60	30	130	70	500	8	2	16	18

Departmental Electives	Open Electives
802(A) Engineering Hydrology	803(A) Artificial Intelligence
802 (B) Foundation Engineering	803(B) Data Analytics
802 (C) Bridge Engineering	803(C) Retrofitting and Rehabilitation of Structures
802 (D) Earthquake Resistant Design of Structures	803 (D) Integrated Water Management

RAJIV GANDEHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Civil Engineering, VIII-Semester

Departmental Elective CE 802(D) Earthquake Resistant Design of Structures

Unit I

Engineering Seismology: Introduction to engineering seismology. Geological and tectonic features of India. Origin and propagation of seismic waves. Earthquake measurement parameters. Characteristics of earthquake and its quantification- Magnitude and Intensity scales. Seismic instruments. Seismic zoning map of India.

Unit II

Response Spectrum: Response history and strong motion characteristics. Response Spectrum-elastic and inelastic response spectra, tripartite (D-V-A) response spectrum, use of response spectrum in earthquake resistant design. Computation of seismic forces in multi-storied buildings - using procedures as per code provisions.

Unit III

Asseismic Structural Modelling: Structural configuration for earthquake resistant design. Concept of plan irregularities and vertical irregularities. Soft storey. Torsion in buildings. Design provisions for these in IS-1893. Effect of infill masonry walls on frames, modeling concepts of infill masonry walls. Behaviour of masonry buildings during earthquake, failure patterns, strength of masonry in shear and flexure. Slenderness concept of masonry walls.

Unit IV

Design of structure for earthquake resistance: Seismic design philosophy. Load combinations. Ductility and energy absorption in buildings. confinement of concrete for ductility, design of columns and beams for ductility, ductile detailing provisions as per IS-1893. Lateral load resisting structural systems.

Unit V

Seismic control of structures: Introduction, concept and types of seismic control systems as active, passive and semi-active systems. Requirements of efficient earthquake resistant structural system, damping devices, base isolation systems. Retrofitting of structures.

Reference Books:

1. Chopra Anil Kumar, Dynamics of Structures - Theory and Application to Earthquake Engineering, Pearson Education.



Energy Management

Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal
 New Scheme of Examination as per AICTE Flexible Curricula
 Bachelor of Technology (B.Tech) Chemical Engineering (w.e.f. July, 2019)

V Semester

S.No.	Subject Code	C/P/ Lab #	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	CM-501	DC	Mass Transfer-I	70	20	10	30	20	150	3	-	2	4
2.	CM-502	DC	Heat Transfer	70	20	10	30	20	150	3	-	2	4
3.	CM-503	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
4.	CM-504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
5.	CM-505	D Lab	Chemical Process Plant Simulation Lab-I	-	-	-	30	20	50	-	-	4	2
6.	CM-506	O/E Lab	Organic Process Technology Lab	-	-	-	30	20	50	-	-	4	2
7.	CM-507	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.	CM-508	IN	Internship - III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	CM-508	F	Minor Project- I	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	230	750	12	1	22	24

Departmental Electives	Open Electives
CM 503 (A) Computation Methods in Chemical Engineering	CM 504 (A) Organic Process Technology
CM 503 (B) Pulp & paper Technology	CM 504 (B) Fuel Cell Technology
CM 503 (C) Pharmaceutical Technology	CM 504 (C) Energy Management

RAJIV GANDHI PROUDVYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Chemical Engineering, V-Semester

Open Elective CM- 504 (C) Energy Management

Unit I

Introduction to Energy Management:

Definition need and types of energy audit, Energy management (audit) approach-understanding energy costs, Bench marking, Energy performance, Matching energy use to requirement, Maximizing system efficiencies, Optimizing the input energy requirements, Fuel & energy substitution, Energy audit Instruments.

Unit II

Energy and Environment Monitoring:

Defining monitoring & targeting, elements of monitoring & targeting, data and information – analysis, techniques-energy consumption, production, cumulative sum of differences (CUSUM). Global environmental concerns: United Nations Framework Convention on climate Change (UNFCCC), sustainable development, Kyoto protocol, Conference of Parties (COP), Clean Development Mechanism(CDM), Prototype Carbon fund (PCF)

Unit III

Energy Efficiency:

Steam System: Properties of steam, assessment of steam distribution losses, steam leakages, steam trapping, condensate and flash steam recovery system, identifying opportunities for energy savings, Energy efficiency in Electrical Utilities: Electrical System, Electric motors, HVAC and Refrigeration System, Fans and blowers, Pumps and Pumping System, Cooling Tower, Lighting System.

Unit IV

Waste Heat Recovery and Insulation:

Classification, advantages and applications, commercially viable waste heat recovery devices, saving potential Insulation-types and application, economic thickness of insulation, heat savings & application criteria, Refractory –types, selection and application of refractories, heat loss.

Unit V

Heat Exchangers Networks and pinch Technology:

Energy targeting, area targeting, number of units targeting, shell targeting, cost targeting Pinch design methods, Grid diagram, composite curve, problem table, algorithm, grand composite curve.





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Renewable Energy Technology

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) Mechanical Engineering (w.e.f. Jan, 2020)

VI Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	ME601	DC	Thermal Engineering and Gas Dynamics	70	20	10	30	20	150	2	1	2	4
2.	ME602	DC	Machine Component Design	70	20	10	30	20	150	2	1	2	4
3.	ME603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	ME604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	ME605	D Lab	CAD Lab	-	-	-	30	20	50	-	-	6	3
6.	ME606	O/E Lab	RDBMS	-	-	-	30	20	50	-	-	6	3
7.	ME607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	ME608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SW:ATAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	130	650	12	2	20	24

Departmental Electives	Open Electives
603 (A) Turbo Machinery	604(A) Robotics
603 (B) Computer Aided Engineering	604(B) Optimization Techniques
603(C) Product Design	604(C) Renewable Energy Technology

Swayam on line course (any one of one sem duration)

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA BHOPAL

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 prediction. Solar thermal conversion: Basics, Flat plate collector-liquid and air type. Theory of flat plate collectors, selective coating, advanced collectors. Concentrators: optical design of concentrators, solar water heater, solar dryer, 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:

Characterization and measurement: Meteorology 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 WEC's; 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 resource assessment; C₂ 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, sterilization, operation and maintenance of biogas plant, biogas plant measure-utilization and storage values; Biomass Gasification: Different types, power generation from gasification, cost benefit analysis of power generation by gasification.

UNIT-IV Small Hydropower System:

Overview of micro, mini and small hydro system; hydrology; Elements of turbine; Assessment of hydro power; selection and design criteria of turbine; site selection and civil works; speed and voltage regulation; Investment time load management and tariff collection; Distribution and marketing issues; Ocean Energy: Ocean energy resources, ocean energy route; 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 plant; 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 & Rajni; Renewable Energy Sources and Emerging Technologies, PHI Learn
2. Khan, B.H; Non Conventional Energy, TMH
3. Sakthomai and Nayak, Solar Energy; Principles of Thermal Collection and Storage, TMH
4. Thurai and Ghosal, Renewable Energy Resources: basic principle & application, Narosa Pabli





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Energy Conservation Management & Audit

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

VIII Semester Bachelor of Technology (B.Tech.) [Mechanical Engineering] **(w.e.f. Jan, 2021)**

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	ME 801	DC	Refrigeration & Air Conditioning	70	20	10	30	20	150	2	1	2	4
2.	ME 802	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	ME 803	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
4.	ME 804	D/O/E Lab	Simulation and Modeling	-	-	-	30	20	50	-	-	6	3
5.	ME 805	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MERD) at respective UG level.											
Total				210	60	30	130	70	500	8	2	16	18

Departmental Electives	Open Electives
802(A) Automobile Engineering	803(A) Data analytics
802 (B) Tribology & Maintenance Engineering	803(B) Energy Conservation, Management & Audit
802 (C) Machine Tool Design	803(C) Entrepreneurship and Management Concepts
802 (D) Production Planning and Control	803 (D) Management Information System

RAJIV GANDHI PROUDYOGINI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Mechanical Engineering, VIII-Semester

Open Elective ME 803(B) Energy Conservation, Management & Audit

Course Objectives

After studying this course, students will be able to:

- Understand the concepts of energy management and conservation.
- Able to conduct energy audit and report.
- Concepts of Energy policy its purpose and formation.
- Able to do Electrical Energy Management in different electrical systems.

UNIT-I

Energy Management: Concept of energy management, energy demand and supply, economic analysis; Duties and responsibilities of energy manager. Energy Conservation: Basic concept, energy conservation in Household, Transportation, Agricultural, service and Industrial sectors, Lighting, HVAC.

UNIT-II

Energy Audit: Definition, need and types of energy audit; Energy management (Audit) approach: Understanding energy cost, bench marking, energy performance, matching energy use to requirement, maximizing system efficiencies, optimizing the input energy requirement, Fuel & energy substitution; Energy audit instruments; Energy conservation Act; Duties and responsibilities of energy manager and auditors.

UNIT-III

Material energy balance: Facility as an energy system; Method for preparing process flow; material and energy balance diagram; Energy Action Planning: Key elements, force field analysis; Energy policy purpose, perspective, content, formulation, rectification.

UNIT-IV

Monitoring and Targeting: Definition monitoring & targeting; Data and information analysis; Electrical Energy Management: energy conservation in motors, pumps and fan systems; energy efficient motors.





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Disaster Management

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) Computer Science and Engineering/ (w.e.f. July, 2020)

Computer Engineering/Computer Science & Technology

VII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CS 701	DC	Software Architectures	70	20	10	30	20	150	2	1	2	4
2.	CS 702	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	CS 703	OE	Open Elective	70	20	10	-	-	100	3	0	0	3
4.	CS 704	D Lab	Departmental Elective Lab	-	-	-	30	20	50	-	-	6	3
5.	CS 705	O/E lab	Open Elective Lab	-	-	-	30	20	50	-	-	6	3
6.	CS 706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	CS 607		Evaluation of Internship -III	-	-	-	-	100	100	-	-	6	3
8.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.										UG	
Total				210	60	30	190	210	700	8	2	28	24

Departmental Electives	Open Electives
702(A) Computational Intelligence	703(A) Cryptography & Information Security
702 (B) Deep & Reinforcement Learning	703(B) Data Mining and Warehousing
702 (C) Wireless & Mobile Computing	703(C) Agile Software Development
702 (D) Big Data	703 (D) Disaster Management

* Open Electives can be offered to students of all branches including CSE branch. However, they can be offered to students of Non-CSE branches only if they have not taken any similar courses previously and have sufficient knowledge of pre-requisite courses (if any) of respective open electives subject.

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Computer Science and Engineering, VII-Semester

Open Elective – CS703 (D) Disaster Management

Course Objective

- > To provide students an exposure to disasters, their significance and types. > To ensure that students begin to understand the relationship between vulnerability, disasters, disaster prevention and risk reduction.
- > To gain a preliminary understanding of approaches of Disaster Risk Reduction (DRR) > To enhance awareness of institutional processes in the country and
- > To develop rudimentary ability to respond to their surroundings with potential disaster response in areas where they live, with due sensitivity

UNIT I

INTRODUCTION TO DISASTERS

Definition: Disaster, Hazard, Vulnerability, Resilience, Risk - Disasters: Types of disasters - Earthquake, Landslide, Flood, Drought, Fire etc - Classification, Causes, Impacts including social, economic, political, environmental, health, psychosocial, etc.- Differential impacts- in terms of caste, class, gender, age, location, disability - Global trends in disasters: urban disaster, pandemic, complex disaster, climate change- Disaster and Development during various types of Disasters

UNIT II

APPROACHES TO DISASTER RISK REDUCTION

Disaster cycle - Phases, Culture of safety, prevention, mitigation and preparedness community based DRR, Structural- nonstructural measures, Roles and responsibilities of community, Panchayati Raj Institutions/Urban Local Bodies (PRLs/ULBs), States, Centre, and other stake-holders- Institutional Processes and Framework at State and Central Level- State Disaster Management Authority(SDMA) - Early Warning System - Advisories from Appropriate Agencies.

UNIT III

INTER-RELATIONSHIP BETWEEN DISASTERS AND DEVELOPMENT Factors affecting Vulnerabilities, differential impacts, impact of Development projects such as dams, embankments, changes in Land-use etc. - Climate Change Adaptation- IPCC Scenario and Scenarios in the context of India - Relevance of indigenous knowledge, appropriate technology and local resources





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Swachh Bharat Summer Internship

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.)

II Semester (Group B)

(w.e.f. July 2018)

GROUP B: (AU, ME, IP, CE, IEM, TX, EC, & CM)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks	Contact Hours per week			Total Credits	
				Theory			Practical		L	T	P		
				End Sem.	Mid Sem.	Quiz/Assignment	End Sem.						Lab work & Sessional
1.	BT101	BSC-1	Engineering Chemistry	70	20	10	30	20	150	3	-	2	4
2.	BT202	BSC-4	Mathematics-II	70	20	10	-	-	100	3	1	-	4
3.	BT103	HSMC-1	English for Communication	70	20	10	30	20	150	3	-	2	4
4.	BT104	ESC-1	Basic Electrical & Electronics Engineering	70	20	10	30	20	150	2	-	2	3
5.	BT105	ESC-2	Engineering Graphics	70	20	10	30	20	150	2	-	2	3
6.	BT106	ESC-3	Manufacturing Practices	-	-	-	15	10	25	-	-	2	1
7.	BT107	DLC-1	Internship-I (60 Hrs Duration) at the Institute level	To be completed during or at the end of the second semester. Its evaluation/credit to be added in third semester.									
8.	BT108	DLC-2	Swachh Bharat Summer Internship/Urnat Shast Abhiyan (100Hrs)/Rural Outreach				15	10	25	-	-	4	2
			Total	350	100	50	150	100	750	13	1	14	21

Water resources engineering

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Civil Engineering

VI Semester

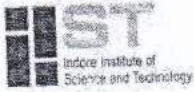
(w.e.f. Jan, 2020)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks	Contact Hours per week			Total Credits	
				Theory			Practical		L	T	P		
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem.						Term work Lab Work & Sessional
1.	CE601	DC	Structural Design and Drawing (RCC-I)	70	20	10	30	20	150	2	1	2	4
2.	CE 602	DC	Environmental Engineering I	70	20	10	30	20	150	2	1	2	4
3.	CE 603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	CE 604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	CE 605	D Lab	Advance surveying lab	-	-	-	30	20	50	-	-	6	3
6.	CE 606	O/E Lab	Non Destructive Testing Lab	-	-	-	30	20	50	-	-	6	3
7.	CE 607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	CE 608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits*		*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.										
			Total	280	80	40	120	130	650	12	2	20	24

Departmental Electives	Open Electives
602 (A) Water resources engineering	604(A) Fluid Mechanics II
603 (B) Precast and modular construction	604(B) Intellectual Property rights(IPR)
603(C) Advance pavement design	604(C) Environmental Impact Assessment
603(D) Cost effective and Eco-friendly structures	604(D) Operation Research



World Environment Day – Solution for Plastic Pollution



Indore Institute of Science and Technology
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Note Sheet

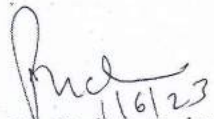
Date: 1/06/2023

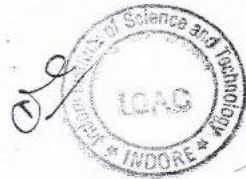
On the occasion of "World Environment Day" (5th June, 2023) Indore Institute of Science & Technology is organizing an expert lecture on the theme "**Solution for Plastic Pollution**"


On this occasion Oath ceremony & plantation drive will also be organized. In this regard following arrangements are required –

1. Auditorium -2 with Lamp lighting, projector & Electric arrangements
2. Oath ceremony at central stairs
3. Poster, banner & stand to fix the banner
4. Plantation pits – 10 Nos (IIST-IIP-IIMR)
5. Bouquet & Memento – 1 No. each

Request you to kindly approve the same.


11/6/23
Dr. Parimeeta chanchani
Faculty Coordinator




Principal
Indore Institute of Science
and Technology, Indore





Indore Institute of Science and Technology

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Event Report

Academic Year: 2022-23

Sessions: Jan – Jun 2023(Even)

Name of Event: **World Environment Day**

Theme of the Event: **“Solution for Plastic Pollution”**

Date of Event: **5th June 2023**

Organizing Dept.: Green Waves, IIST

No. of Students Participated: 365

Event Coordinator: Mr. Mahaveer Dangi

Student Coordinators: 1. Ms Sabahat Ahmad, CS IV Year 8319309910
2. Yuvraj Singh Naruka, CM III Year 8349210340
3. Nishant Bhandari, CS I year

Summary

On 5th June, 2023, an Environment Day event was organized with the participation of more than 250 students, faculty & staff at Indore Institute of Science & Technology. The theme of the event was **“Solution for Plastic Pollution”** and it aimed to raise awareness about environmental issues, promote sustainable practices, and encourage students to take an active role in protecting the environment by reducing and avoiding the use of plastic.

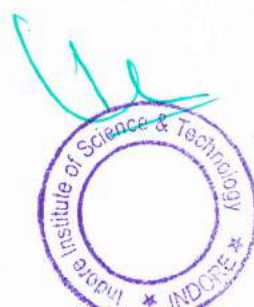
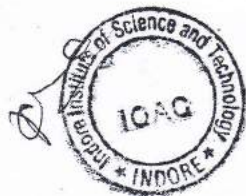
Event Highlights:

Awareness Session:

The event began with an informative session by Director General, Shri Arun.S.Bhatnagar. He addressed our faculty members, staff along with youth of today our students, highlighting the significance of World Environment Day and the pressing environmental challenges faced globally. Students were educated about the importance of conservation, sustainable development, and the role they can play in making a plastic free environment.

Pledge Taking Ceremony:

As a highlight of the event, a pledge taking ceremony was conducted where all faculty members, staff & 250 students actively participated. The students pledged to minimize the use of plastic especially single use plastic by adopting the old customs of our country in their daily lives, reduce





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Indore Institute of Science and Technology

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their carbon footprint, conserve natural resources, promote environmental awareness, and actively participated in environmental initiatives.

Tree Plantation Drive: To demonstrate their commitment to environmental conservation, a tree plantation drive was organized as part of the event. Students were divided in the group of 10 students and around 35 trees are planted.

Conclusion:

The Environment Day event witnessed the active participation of more than 250 students who demonstrated their dedication to environmental conservation and sustainable practices. The informative sessions, and pledge taking ceremony not only raised awareness but also instilled a sense of responsibility and commitment among the students. Such initiatives play a vital role in creating a greener and more sustainable future, and the event served as a catalyst for positive change among the participants.

FB link -

<https://www.facebook.com/100064495487764/posts/pfbid0e5PicggsgUtaF8z2kpV2T7e8rLA9xk5Juz9WDbGVyDGtSIWdakerwRMdLR5WGKI/>

Instagram Link :<https://www.instagram.com/p/CtGpLUhMOcU/?igshid=NjZiM2M3MzlxNA==>

Event Coordinators

Dr. Parimeeta Chanchani

Mr. Mahaveer Dangi



Principal

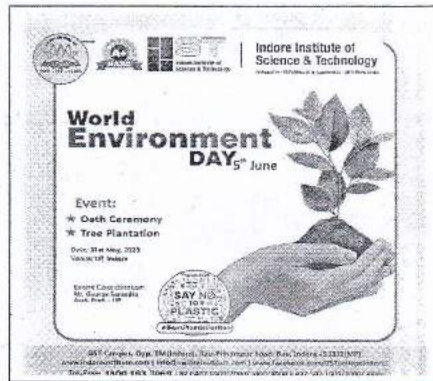




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Glimpse of the Event



Poster Circulated among Students



Pledge



Plantation





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World Energy Conservation Day - Pledge



Indore Institute of Science and Technology
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National Service Scheme



Date: - 09/12/2022

Notice

This is to inform all the students of IIST Indore that National Service Scheme (NSS) Unit of IIST Indore is going to Energy Conservation Pledge Program for all the faculty, staff & students of IIST Indore on 14/12/2022 in front of B block central Staircase of IIST Indore. The coordinators for the event are Mr. Ishanya Joshi & Mr. Mahaveer Singh Dangi.

So, all the students kindly gather at B block of IIST Indore.

Principal

Dr. Keshav Patidar





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Indore Institute of Science and Technology Approved by AICTE, New Delhi & Affiliated to RGPV, Bhopal National Service Scheme



Event Report

Academic Year: 2022-23

Sessions: July – Dec 2022

Name of Event: World Energy Conservation Day

Theme of the Event: "Energy Conservation Pledge"

Date of Event: 14th Dec. 2022

Organizing Dept.: NSS Unit IIST

No. of Students Participated: 114

Event Coordinator: Mr. Mahaveer Dangri

Conservation Pledge:

CONSERVATION PLEDGE

Complete this pledge and do your part to conserve natural resources and protect the natural areas that we are so lucky to have here in India

I promise to do my best to:

Water Conservation

- turn off the water while brushing my teeth
- take short showers instead of baths



Energy Conservation

- turn off the lights when the room is not being used.
- not stand and hold the refrigerator door open.
- turn off computers, monitors and games when not in use.



Waste Reduction

- RECYCLE! At home and on the go. Recycling helps to save energy and natural resources.
- get reusable shopping bags and have the family use them when shopping.
- pack my lunch in a reusable bag or container



Air Quality

- bike or walk instead of riding in the car.
- ride the bus or carpool.
- ask parents about natural cleaning instead of using chemicals.



Land/Natural Area Protection

- pick up trash in my neighborhood.
- not throw trash on the ground





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Approved by AICTE, New Delhi & Affiliated to RGPV, Bhopal

National Service Scheme



Glimpse Of Event



Event Coordinators

Mr. Mahaveer Dangi

Principal

Dr. Keshav Patidar







INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Conservation and Plantation Drive

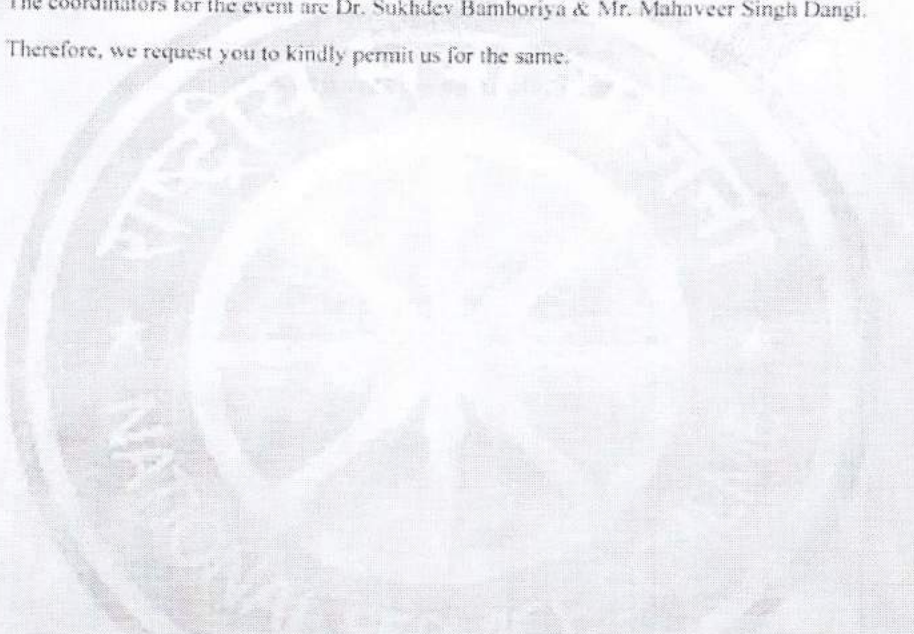
 **IIST** Indore Institute of Science and Technology
Approved by AICTE, New Delhi & Affiliated to RGPV, Bhopal

National Service Scheme


Date: - 15/05/2023


Approval Letter

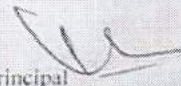
National Service Scheme (NSS) Unit of IIST Indore is planning to organize Forest conservation and Plantation Drive Program for all the students of IIST Indore on 17/05/2023. The coordinators for the event are Dr. Sukhdev Bamboriya & Mr. Mahaveer Singh Dangi.


Therefore, we request you to kindly permit us for the same.




Faculty Coordinator
Dr. Sukhdev Bamboriya


NSS Unit Program Officer
Mr. Mahaveer Singh Dangi
कार्यक्रम अधिकारी
राष्ट्रीय सेवा योजना
इन्दौर इंस्टीट्यूट ऑफ साइंस एण्ड टेक्नोलॉजी, इन्दौर


Principal
Dr. Keshav Patidar







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Indore Institute of Science and Technology Approved by AICTE, New Delhi & Affiliated to RGPV, Bhopal National Service Scheme



Event Report

Academic Year: 2022-23

Sessions: Jan – Jun 2023

Name of Event: Forest Awareness and conservation program and Tree plantation in association with Ralamandal wildlife sanctuary Team

Theme of the Event: Save Environment – Save Life (Lifestyle for environment)

Date of Event: 17/05/2023

Organizing Dept.: NSS Unit IIST

No. of Students Participated: 52

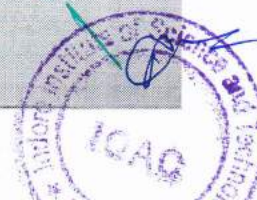
Event Coordinator: Dr. Sukhdev Bamboriya
Mr. Mahaveer Singh Dangi

Student Coordinators: 1. Aayush Chouhan, CE IV Year
2. Sanjana Sen EC II year
3. Kartik Kandhari II year

Summary

Trees represent life, growth, peace and nature. They produce oxygen, clean soil, prevent drought, control flood related disasters, prevent soil erosion, improve physiological, mental and spiritual health, and also reduce carbon footprints. Keeping this in mind the campaign for the One-Student One-Tree Programme was initiated by the NSS Unit Of Indore Institute of Science & Technology in coordination with Ralamandal Wildlife Sanctuary Team Members on 17/05/2023. The following activities have been undertaken so far to promote this campaign: Under the theme of Save Environment – Save Life (Lifestyle for environment) Plantation Drive in was conducted on 17/05/2023.

The students also took the Oath: "I will plant a tree sapling and take care of the sapling such that it grows into a mature tree". The students were encouraged to plant tree saplings. All students took oath for planting tree saplings during their respective counselling sessions Every year plantation drive is organized, and students are instructed to plant a sapling and take care of that sapling till their tenure in the Institute. He / She can cherish this memory even after leaving the institute. IIST has a lush green campus where a variety of trees are planted like Silver oak, variety of fruit Plants, ornamental plants which not only add aesthetic value to the campus but also prevents soil erosion. This has also led to conserving biodiversity and new species of birds are seen in the campus. The varieties are chosen meticulously according to the scientific value of a particular plant and then healthy saplings are procured from forests and nurseries.





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Indore Institute of Science and Technology
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National Service Scheme



Glimpse of Plantation Drive

इंदौर, बुधवार, दिनांक: 18 मई 2023

आई आई एस टी कालेज में छात्रों ने पर्यावरण बचाने की शपथ ली



इंदौर, 18 मई: आई आई एस टी कालेज में 18 मई को पर्यावरण बचाने की शपथ ली। छात्रों ने एक बANNER पर 'LIFE' लिखा और इसे धरती पर रख दिया। छात्रों ने कहा कि वे पर्यावरण को बचाने के लिए अपनी शक्ति का प्रयोग करेंगे।



Indore, Madhya Pradesh, India
 19.114776N, 75.8228E, Indore, Madhya Pradesh 453332, India
 Lat 22.530732°
 Long 75.78228°
 17/05/23 04:02 PM GMT +05:30

Event Coordinator

1. Dr. Sukhdev Bamboriya
2. Mr. Mahaveer Dangi

कार्यक्रम अधिकारी
राष्ट्रीय सेवा योजना
इन्दौर इन्स्टीट्यूट ऑफ साइंस एंड टेक्नोलॉजी, इन्दौर

Principal

Dr. Keshav Patidar





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Abhigyata Parv- 2022 – Plantation Drive



Indore Institute of Science and Technology

Approved by AICTE, New Delhi & Affiliated to RGPV, Bhopal

Event Report

Academic Year: 2022-23

Sessions: Jan – Jun 2023(Odd)

Name of Event: Abhigyata Parv -2022 (Induction Program - 2022)

Theme of the Event: Plantation Drive

Date of Event: 20 October 2022

Organizing Dept.: ESH & Green Waves Club

No. of Students Participated: 352

Event Coordinator: Dr. Irfan Mansoori
Dr. Amit Jain

Student Coordinators: 1. Aayush Chouhan, CS IV Year
2. Sanjana Sen EC II year
3. Kartik Kandhari II year

Summary

During Abhigyata Parv -2022, on the last day i.e., 20 October a tree plantation drive was organized to demonstrate the students their commitment towards environmental conservation. Students were divided in the group of 10 students and around 35 trees are planted.

Every year plantation drive is organized, and students are instructed to plant a sapling and take care of that sapling till their tenure in the Institute. He / She can cherish this memory even after leaving the institute. IST has a lush green campus where a variety of trees are planted like Silver oak, variety of fruit Plants, ornamental plants which not only add aesthetic value to the campus but also prevents soil erosion. This has also led to conserving biodiversity and new species of birds are seen in the campus. The varieties are chosen meticulously according to the scientific value of a particular plant and then healthy saplings are procured from forests and nurseries.

Hon'ble DG Shri Arun S Bhatnagar was the chief guest of the program. Along with students, the Principal, faculty members of department also participated in the joyful event.

Event Coordinators

Dr. Irfan Mansoori
Dr. Amit Jain



[Signature]
Principal





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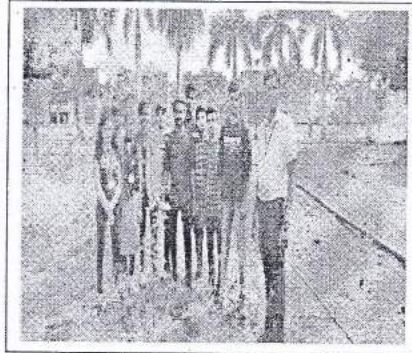
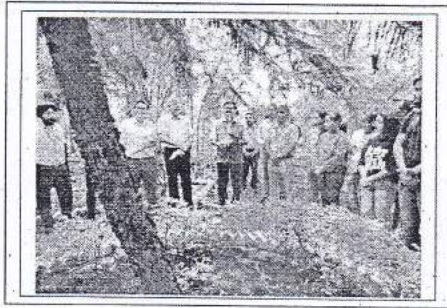
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Glimpse of Plantation Drive





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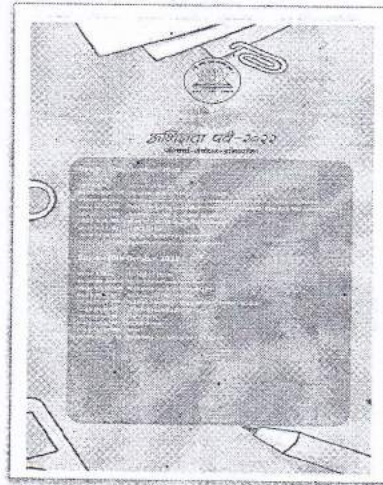
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Flow of Event and Information of Plantation Drive





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Expert lectures on Power of Technology and Science



Indore Institute of Science and Technology
Approved by AICTE, New Delhi & Affiliated to RGPV, Bhopal

Date: 11/10/2022

Approval Letter

Department of Engineering, Science and Humanities of Indore Institute of Science and Technology is interested to conduct Expert Lecture for the students of I year Engineering on 19th October under 'Abhigyata Parv' 2022.

Kindly approve the same for conducting the activity.

Faculty Coordinator – 1. Dr. Namrata Kaushal
2. Dr. Parimeeta Chanchani



Note sheet for Expert Lecture

Department of Engineering, Science and Humanities of Indore Institute of Science and Technology is going to conduct Expert Lecture for the students of I year Engineering on 19th October under 'Abhigyata Parv' 2022.

Details of requirements:

1. Audi 1 & II for Sarswati vandana , Lecture.
2. Remuneration for invited speaker (Rs. 2000/-)
3. Bouquet - 1No.
4. Memento - 1No.
5. Planters - 1No.

HOD



Coordinators



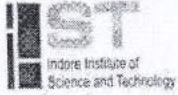
Principal





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Indore Institute of Science and Technology
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Event Report

Academic Year: 2022-23

Session: Oct- Feb 22 (ODD)

Name of Event: 'Abhigyata Parv' 2022.

Date of Event: 19th October.

Topic: '**Power of Technology & Science**'

Organizing Dept.: Engineering Science & Humanities

Event Coordinator: 1. Dr. Namrata Kaushal
2. Dr. Parimeeta Chanchani

Details of Participants:

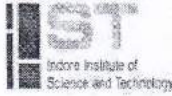
No. of Institutes Participated	No. of participants	Department	No. of Industry Representative	Remark if any
1	278	ESH	NIL	Expert was from industrial background ,to benefit students.





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Indore Institute of Science and Technology
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SUMMARY REPORT

on

अभिज्ञता पर्व 19th October.

AT INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE

INTRODUCTION

At IIST ,for the students of I year Engineering expert Lecture was conducted on 17th October.

The aim of the programme was to ensure that every student feels himself occupied, involved and excited to begin this new vital stage in their education. The idea was to act as an icebreaker & make the students aware of their future prospects. Main aim was to motivate them spread a feeling of well being by assuring them that their success not just lie in being an engineer but a good human being too. The Lecture was planned in the Audi-I & II .

SALIENT POINTS,

Felicitation of Mr.Joydeep Bhaduri Managing Director Accenture was done by the Director General of IIST shri Arun S Bhatnagar along with Vice President Sparsh Group Mr.Amit Saxena.after that Mr.Joydeep Bhaduri ,Managing Director Accenture addressed the students focusing on Technology & science trends. .

The respective Deans, HODs, Faculties of first year were present in the session along with the students.

CONCLUSION:

Overall Expert Lecture was conducted successfully and IIST was highly honored to have such reverential guest to guide students, where we focus on Enhancing employability quotient with Holistic development and quality assurance is our top priority and mentoring students. Words of gratitude were given by Principal IIST ,Dr.Keshav Patidar

Event Coordinator: 1. Dr. NamrataKaushal
2. Dr. Parimeeta Chanchani

Principal






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Audit – Energy, Green and Environment

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Ref No: EEPL/2021-22/C103

Date: - 01-06-2022

GREEN AUDIT CERTIFICATE

This is certified that Empirical Exergy Private Limited (EEPL) Indore M.P. has conducted green audit at **Indore Institute of Science & Technology Indore (M.P.)** for the academic Year 2020-21 and audit report has been submitted.

We avail this opportunity to express our deep and sincere gratitude to the management for their wholehearted support and co-operations during the green audit.

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

For: Empirical Exergy Private Limited



Rajesh Kumar Singadiya (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 ISO 50001:2011 [EnMS] from FICCI, Delhi
Certified Water Auditor (NPC, Govt of India)
Chartered Engineer [M-1699118], The Institution of Engineers (India)
Member of ISHRAE [58150]





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Ref No: EEPL/2021-22/C102

Date: -01-06-2022

ENVIRONMENTAL AUDIT CERTIFICATE

This is certified that Empirical Exergy Private Limited (EEPL) Indore M.P. has conducted Environmental audit at **Indore Institute of Science & Technology Indore (M.P)** for the academic Year 2020-21 and audit report has been submitted.

We avail this opportunity to express our deep and sincere gratitude to the management for their wholehearted support and co-operations during the environment audit.

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

For- Empirical Exergy Private Limited



Rajesh Kumar Singadiya (Director)


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Accredited Energy Auditor [AEA-0284]
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Ref No: EEPL/2021-22/C101

Date: - 01-06-2022

ENERGY AUDIT CERTIFICATE

This is certified that Empirical Exergy Private Limited (EEPL) Indore M.P. has conducted Energy audit at Indore Institute of Science & Technology Indore (M.P) for the academic Year 2020-21 and audit report has been submitted.

We avail this opportunity to express our deep and sincere gratitude to the management for their wholehearted support and co-operations during the energy audit.

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

For: Empirical Exergy Private Limited



Rajesh Kumar Singadiya (Director)

M.Tech (Energy Management), PhD (Research Scholar)
Accredited Energy Auditor [AEA-0284]
Certified Energy Auditor [CEA-7271]
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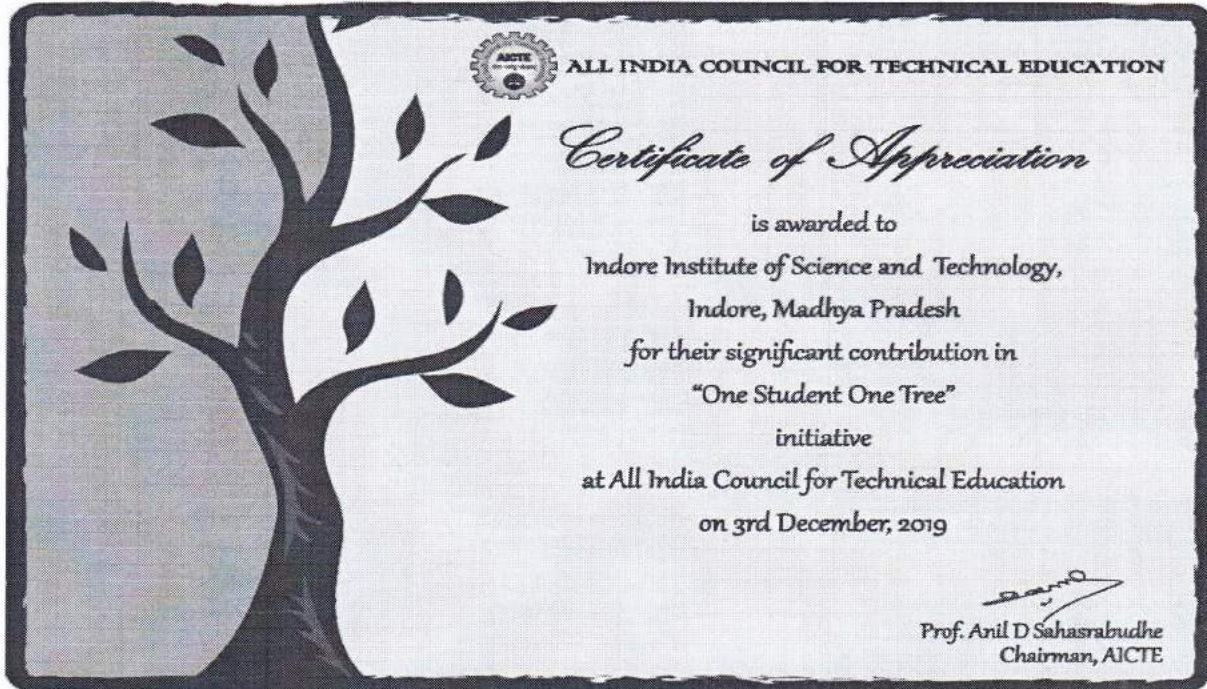




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Letter of Appreciations from AICTE for one student one tree





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Human Values & Professional Ethics

Language Lab & seminars

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.)

~~W.E.F. JUNE 2016~~

I Semester (Group B)

GROUP B: (AU, ME, IP, CE, IEM, TX, EC, & CM)

S.No	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory Slot			Practical Slot			L	T	P	
				End Sem.	Mid Sem Exam	Quiz/Assignment	End Sem.	Lab work & Sectional					
Mandatory Induction Program (First three weeks)				Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations									
Fourth week onwards classes will start													
1.	BT201	BSC-3	Engineering Physics	70	20	10	30	20	150	2	1	2	4
2.	BT102	BSC-2	Mathematics-I	70	20	10	-	-	100	3	1	-	4
3.	BT203	ESC-4	Basic Mechanical Engineering	70	20	10	30	20	150	3	-	2	4
4.	BT204	ESC-3	Basic Civil Engineering & Mechanics	70	20	10	30	20	150	3	-	2	4
5.	BT205	ESC-6	Basic Computer Engineering	70	20	10	30	20	150	3	-	2	4
6.	BT206	RESMC-2	Language Lab & Seminars	-	-	-	30	20	50	-	-	2	1
7.	BT107	DLC-1	Internship-I (60 Hrs Duration) at the Institute level	To be completed during first/second semester. Its evaluation/credit to be added in third semester.									
Total				350	100	50	150	100	750	14	2	10	21

1 Hr Lecture	1 Hr Tutorial	2 Hr Practical
1 Credit	1 Credit	1 Credit

RAJIV GANDEHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

B. Tech. First Year

Branch- Common to All Disciplines

BT206	Language Lab and Seminars	0L-0T-1P	1 Credit
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Course objective: This course intends to impart practical training in the use of English Language for Communicative purposes and aims to develop students' personality through language Laboratory.

Topics to be covered in the Language laboratory sessions:

1. Introducing oneself, family, social roles.
2. Public Speaking and oral skills with emphasis on conversational practice, extempore speech, JAM (Just a minute sessions), describing objects and situations, giving directions, debate, telephonic etiquette.
3. Reading Comprehension: Intensive reading skills, rapid reading, and reading aloud (Reading material to be selected by the teacher).
4. To write a book review. Standard text must be selected by the teacher.
5. Role plays: preparation and delivery topic to be selected by teacher/faculty.





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English for Communication

Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal
 New Scheme of Examination as per AICTE Flexible Curricula
 Bachelor of Technology (B.Tech.)

II Semester (Group B)

W.E.F. JULY 2018

GROUP B: (AU, ME, IP, CE, IEM, TX, EC, & CM)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks	Contact Hours per week			Total Credits	
				Theory			Practical		L	T	P		
				End Sem.	Mid Sem.	Quiz/Assignment	End Sem.						Lab work & Sessional
1.	BT101	BSC-1	Engineering Chemistry	70	20	10	30	20	150	3	-	2	4
2.	BT202	BSC-4	Mathematics-II	70	20	10	-	-	100	3	1	-	4
3.	BT103	ISMCC-1	English for Communication	70	20	10	30	20	150	3	-	2	4
4.	BT104	ESC-1	Basic Electrical & Electronics Engineering	70	20	10	30	20	150	2	-	2	3
5.	BT105	ESC-2	Engineering Graphics	70	20	10	30	20	150	2	-	2	3
6.	BT106	ESC-3	Manufacturing Practices	-	-	-	15	10	25	-	-	2	1
7.	BT107	DLC-1	Internship-I (60 Hrs Duration) at the Institute level	To be completed during or at the end of the second semester. Its evaluation/credit to be added in third semester.									
8.	BT108	DLC-2	Swachh Bharat Summer Internship (Visit: Bhamu Akhona (100Hrs)/ Rural Outreach)				15	10	25	-	-	4	2
			Total	350	100	50	150	100	750	13	1	14	21

RAJIV GANDHI PROUDVYOGIKI VISHWAVIDYALAYA, BHOPAL
 New Scheme Based On AICTE Flexible Curricula
 B.Tech. First Year

Branch - Common to All Disciplines

BT103	English for Communication	3L-3T-2P	4 Credits
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COURSE CONTENTS:

Unit-I

Identifying Common errors in writing: Articles, Subject-Verb Agreement, Prepositions, Active and Passive Voice, Reported Speech: Direct and Indirect, Sentence Structure.

Unit-II

Vocabulary building and Comprehension:

Acquaintance with prefixes and suffixes from foreign languages in English to form derivatives, synonyms, antonyms, Reading comprehension.

Unit-III

Communication:

Introduction, Meaning and Significance, Process of Communication, Oral and Written Communication, Barriers of Communication, Barriers to Communication and Ways to overcome them, Importance of Communication for Technical students, nonverbal communication.

Unit-IV

Developing Writing Skills:

Planning, Drafting and Editing, Precise Writing, Precise, Technical definition and Technical description Report Writing: Features of writing a good Report, Structure of a Formal Report, Report of Trouble, Laboratory Report, Progress Report.

Unit-V

Business Correspondence:

Importance of Business Letters, Parts and Layout; Application, Contents of good Resume, guidelines for writing Resume, Calling/ Sending Quotation, Order, Complaint, E-mail and Tender.

Books Recommended:

1. 'Technical Communication: Principles and practice', Meenakshi Raman and Sangeeta Sharma (Oxford)
2. 'Effective Business Communication', Krizan and merrier (Cengage learning)
3. 'Communication Skill, Sanjay Kumar and publishers, OUP2011
4. 'Practical English Usage Michael Swan OUP, 1995.
5. 'Exercises in spoken English Part I-III CIEFL, Hyderabad, Oxford University Press
6. On writing well, William Zinsser, Harper Resource Book 2001.
7. Remedial English Grammar, F.T. Wood/Macmillan2007.

Course Outcomes:

The student will acquire basic proficiency in English including reading and listening comprehension, writing and speaking skills.

Communicative Language Laboratory:

Course objective: The language laboratory focuses on the practice of English through audio-visual aids and Computer software. It intends to enable the students to speak English correctly with confidence and intends to help them to overcome their inhibitions and self-consciousness while speaking in English.

Topics to be covered in the Language laboratory sessions:

1. Listening Comprehension
2. Pronunciation, Intonation, Rhythm
3. Practising everyday dialogues in English
4. Interviews
5. Formal Presentation

Final Assessment should be based on assignment, assessment, presentation and interview of each candidate.





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Soft skills and interpersonal communication

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal
 New Scheme of Examination as per AICTE Flexible Curricula
V Semester Bachelor of Technology (B.Tech.) [Information Technology] (w.e.f. July 2020)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	IT 501	DC	Operating System	70	20	10	30	20	150	3	-	2	4
2.	IT 502	DC	Computer Network	70	20	10	30	20	150	3	-	2	4
3.	IT 503	DE	Departmental Elective-I	70	20	10	-	-	100	3	1	-	4
4.	IT 504	OE	Open Elective-I	70	20	10	-	-	100	3	-	-	4
5.	IT 506	D Lab	Advanced Java Lab	-	-	-	30	20	50	-	1	2	2
6.	IT 506	HSMC Lab	Soft Skills and Interpersonal Communication	-	-	-	30	20	50	-	1	2	2
7.	IT 507	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	IT 508	P	Minor Project I/Seminar	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	230	750	12	3	18	24

Departmental Elective- I
 IT 503 (A) Theory of Computation
 IT 503 (B) Microprocessor & Interfacing
 IT 503 (C) Object Oriented Analysis and Design

Open Elective- I
 IT 504 (A) Artificial Intelligence
 IT 504 (B) E Commerce & Governance
 IT 504 (C) Java Programming

Rural Technology & Community Development

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal
 New Scheme of Examination as per AICTE Flexible Curricula
VI Semester Bachelor of Technology (B.Tech.) Computer Science and Engineering/ Computer Engineering/Computer Science & Technology (w.e.f. Jan, 2020)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	CS601	DC	Machine Learning	70	20	10	30	20	150	2	1	2	4
2.	CS602	DC	Computer Networks	70	20	10	30	20	150	2	1	2	4
3.	CS603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	CS604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	CS605	D Lab	Data Analytics Lab	-	-	-	30	20	50	-	-	6	3
6.	CS606	O/E Lab	Skill Development Lab	-	-	-	30	20	50	-	-	6	3
7.	CS607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	CS608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	130	650	12	2	20	24

Departmental Electives	Open Electives
603 (A) Advanced Computer Architecture	604(A) Knowledge Management
603 (B) Computer Graphics & Visualization	604(B) Project Management
603 (C) Compiler Design	604 (C) Rural Technology & Community Development



RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Computer Science and Engineering, VI-Semester

Open Elective - CS604 (C) Rural Technology & Community Development

Unit – I: Rural Management –

Principles and Practices Introduction to Management and Theory of Management B. Planning, Organisation Structure and Design C. Motivation and Leadership D. Management Control and Managerial Decision Making

Unit – II: Human Resource Management for rural India

Nature, Scope of Human Resource Management. F. Human Resource Planning, Recruitment and Selection, Training and Development, Performance Appraisal G. Welfare programme and Fringe benefits, Wage and Salary Administration H. Morale and Productivity, Industrial Relations and Industrial Disputes

Unit-III Management of Rural Financing:

Rural Credit System, Role of Rural Credit in Rural Development, Evolution and Growth of Rural Credit System in India. B: Agricultural Credit, Agricultural Credit Review Committee, Report of different Committees and Commissions, Problems and Prospects. C: Rural Credit to Non-firm Sector, Credit for small and marginal entrepreneurs. D: Role of Government Institutions towards facilitating Rural Credit. Role of Non- Government/ Semi Government / Quasi- Government Institutions. Growth and Present trend of Rural Financing towards Small scale and Cottage Industries.

Unit – IV: Research Methodology:

Concept of Social Research, Traditional Research, Action Research and Participatory Research B: Qualitative Data Construction and Methods of Data Collection C: Techniques of Interview D: Qualitative methods: Sociometry, Case Studies, observation, coding and content analysis

Unit – V: Research Methodology

Collection, Tabulation and Presentation of data B: Measures of Central Tendency, Dispersion, Moments, Skewness and Kurtosis, Correlation and Regression: Sampling Theory and Test of Significance





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)

Managing Innovation and Entrepreneurship

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) Computer Science and Engineering (w.e.f. Jan, 2021)

Computer Engineering/Computer Science & Technology

VIII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	CS 801	DC	Internet of Things	70	20	10	30	20	150	2	1	2	4
2.	CS 802	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	CS 803	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
4.	CS 804	D/O/E Lab	D/O elective lab	-	-	-	30	20	50	-	-	6	3
5.	CS 805	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective level.										UG	
Total				210	60	30	130	70	500	8	2	16	13

Departmental Electives		Open Electives	
802(A) Block Chain Technologies		803(A) Image Processing and Computer Vision#	
802 (B) Cloud Computing		803(B) Game Theory with Engineering applications#	
802 (C) High Performance computing		803(C) Internet of Things*	
802 (D) Object Oriented Software Engineering		803 (D) Managing Innovation and Entrepreneurship#	

These Open Electives can be offered to students of all branches including CSE branch. However, they can be offered to students of Non-CSE branches only if they have not taken any similar courses previously and have sufficient knowledge of pre-requisite courses (if any) of respective open electives subject.
* can be offered to students of all branches except CSE, provided they have not taken any similar course previously and have sufficient knowledge of pre-requisite courses, if any.

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Computer Science and Engineering, VIII-Semester

Open Elective - CS803 (D) Managing Innovation and Entrepreneurship#

COURSE OBJECTIVE

The aim of the course is to motivate students to innovate in business. In the first place, to achieve this goal, students will be introduced to the basic terminology, typology of innovations and historical context for better comprehension. Also issues of innovation management will be introduced. Students will become familiar with the impact of innovation, innovative processes and aspects that affect it, including applicable methods and innovation management techniques.

Course contents:

UNIT-I

Innovation, the basic definition and classification; The relationship of innovation and entrepreneurship, creation of competitive advantage based on innovation, Innovative models, Product, process, organizational and marketing innovation and their role in business development.

UNIT-II

Sources of innovation (push, pull, analogies), transfer of technology, Creative methods and approaches used in innovation management. Approaches to management of the innovation process (agile management, Six Thinking Hats, NUF test).

UNIT-III

Project approach to innovation management, method Stage Gate, its essence, adaptation of access to selected business models. In-house business development of the innovation process in the company, Open Innovation as a modern concept, the limits of this method and its benefits for business development.

UNIT-IV

Innovations aimed at humans, role of co-creation in the innovation process. The strategy of innovation process, types and selection of appropriate strategies.

UNIT-V

Measurement and evaluation of the benefits of innovation for business (financial and non-financial metrics, their combination and choice). Barriers to innovation in business, innovation failure and its causes, post-audits of innovative projects. Organization and facilitation of an innovation workshop.



Knowledge Management

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Computer Science and Engineering/ (w.e.f. Jan, 2020)
Computer Engineering/Computer Science & Technology]

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks	Contact Hours per week			Total Credits	
				Theory			Practical		L	T	P		
				End Sem.	Mid Sem. Exam	Quiz/ Assignment	End Sem						Term work Lab Work & Sessional
1.	CS601	DC	Machine Learning	70	20	10	30	20	150	2	1	2	4
2.	CS602	DC	Computer Networks	70	20	10	30	20	150	2	1	2	4
3.	CS603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	CS604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	CS605	D Lab	Data Analytics Lab	-	-	-	30	20	50	-	-	6	3
6.	CS606	O/E Lab	Skill Development Lab	-	-	-	30	20	50	-	-	6	3
7.	CS607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	CS608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits ^a	<i>Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.</i>											
Total				280	80	40	120	130	650	12	2	20	24

Departmental Electives		Open Electives	
603 (A) Advanced Computer Architecture		604(A) Knowledge Management	
603 (B) Computer Graphics & Visualization		604(B) Project Management	
603 (C) Compiler Design		604 (C) Rural Technology & Community Development	

RAJIV GANDHI PROUDVOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Computer Science and Engineering, VI-Semester

Open Elective - CS604 (A) Knowledge Management

OBJECTIVES:The student should be made to:

- Learn the Evolution of Knowledge management.
- Be familiar with tools.
- Be exposed to Applications.
- Be familiar with some case studies.

UNIT I : INTRODUCTION

Introduction: An Introduction to Knowledge Management – The foundations of knowledge management- including cultural issues- technology applications organizational concepts and processes- management aspects- and decision support systems. The Evolution of Knowledge management: From Information Management to Knowledge Management – Key Challenges Facing the Evolution of Knowledge Management – Ethics for Knowledge Management.

UNIT II : CREATING THE CULTURE OF LEARNING AND KNOWLEDGE SHARING

Organization and Knowledge Management – Building the Learning Organization. Knowledge Markets: Cooperation among Distributed Technical Specialists – Tacit Knowledge and Quality Assurance

UNIT III : KNOWLEDGE MANAGEMENT-THE TOOLS

Telecommunications and Networks in Knowledge Management – Internet Search Engines and Knowledge Management – Information Technology in Support of Knowledge Management – Knowledge Management and Vocabulary Control – Information Mapping in Information Retrieval – Information Coding in the Internet Environment – Repackaging Information.

UNIT IV : KNOWLEDGE MANAGEMENT-APPLICATION

Components of a Knowledge Strategy – Case Studies (From Library to Knowledge Center. Knowledge Management in the Health Sciences. Knowledge Management in Developing Countries).



Cyber Security

Rajiv Gandhi Proudhogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) [Electronics & Communication Engineering]

IV Semester

For batches admitted in July, 17 & July, 18 (w.e.f. July, 2018)

S. No.	Subject Code	Category	Subject Name	Maximum Marks: Allotted					Total Marks	Contact Hours per week			Total Credits	
				Theory			Practical			L	T	P		
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional						
1.	ES401	BSC	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4	
2.	EC402	DC	Signals & Systems	70	20	10	30	20	150	2	1	2	4	
3.	EC403	DC	Analog Communication	70	20	10	30	20	150	3	1	2	5	
4.	EC404	DC	Control System	70	20	10	30	20	150	3	1	2	5	
5.	EC405	DC	Analog Circuits	70	20	10	30	20	150	3	0	2	4	
6.	EC406	DLC*	Simulation Lab	-	-	-	30	20	50	-	-	4	2	
7.	BT407	DLC	90 hrs Internship based on using various software's - Internship - II	To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.										3
Total				350	100	50	150	100	750	14	4	12	24	
8.	BT408	MC	Cyber Security	Non-credit course										
NSS/NCC														

*A minimum of 2 hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.
MST: Minimum of two mid semester tests to be conducted.

RAJIV GANDHI PROUDHOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Computer Science and Engineering, V-Semester

Departmental Elective CS-583 (C) Cyber Security

UNIT 1

Introduction of Cyber Crime, Challenges of cyber crime, Classifications of Cybercrimes: E-Mail Spoofing, Spamming, Internet Time Theft, Salami attack/Salami Technique.

UNIT 2

Web jacking, Online Frauds, Software Piracy, Computer Network Intrusions, Password Sniffing, Identity Theft, cyber terrorism, Virtual Crime, Participation of cyber criminals: hackers, insurgents and extremist group etc. Web servers were hacking, session hijacking.

UNIT 3

Cyber Crime and Criminal justice: Concept of Cyber Crime and the IT Act, 2008, Hacking, Teenage Web Vandalism, Cyber Fraud and Cheating, Defamation, Harassment and E-mail Abuse, Other IT Act Offences, Monetary Penalties, Jurisdiction and Cyber Crimes, Nature of Criminality, Strategies to tackle Cyber Crime and Trends.

UNIT 4

The Indian Evidence Act of 1872 v. Information Technology Act, 2008: Status of Electronic Records as Evidence, Proof and Management of Electronic Records; Relevancy, Admissibility and Probative Value of E-Evidence, Proving Digital Signatures, Proof of Electronic Agreements, Proving Electronic Messages.

UNIT 5

Tools and Methods in Cybercrime: Proxy Servers and Anonymizers, Password Cracking, Key logger and Spyware, virus and worms, Trojan Horses, Backdoors, DoS and DDoS Attacks, Buffer and Overflow, Attack on Wireless Networks, Phishing - Method of Phishing, Phishing Techniques.

Suggested Books:

1. Principles of Cyber crime, Jonathan Clough Cambridge University Press
2. John E. Vacca, Computer Forensics: Computer Crime Scene Investigation, 2nd Edition, Charles River Media, 2003
3. Cyber Law Simplified, VivekSood, Pub: TMH
4. Cyber Security by Nina Godbole, SumitBelagare Pub: Wiley-India
5. Information Warfare: Corporate attack and defense in digital world, William Hutchinson, Matthew Warren, Elsevier.
6. Cyber Laws and IT Protection, Harish Chander, Pub:PHI.



Entrepreneurship and Management Concepts

Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

VIII Semester Bachelor of Technology (B.Tech.) [Mechanical Engineering] (w.e.f. Jan, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	ME 801	DC	Refrigeration & Air Conditioning	70	20	10	30	20	150	2	1	2	4
2.	ME 802	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	ME 803	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
4.	ME 804	D/O/E Lab	Simulation and Modeling	-	-	-	30	20	50	-	-	6	3
5.	ME 805	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				210	60	30	130	70	500	8	2	16	18

Departmental Electives	Open Electives
802(A) Automobile Engineering	803(A) Data analytics
802 (B) Tribology & Maintenance Engineering	803(B) Energy Conservation, Management & Audit
802 (C) Machine Tool Design	803(C) Entrepreneurship and Management Concepts
802 (D) Production Planning and Control	803 (D) Management Information System

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Mechanical Engineering, VIII-Semester

Open Elective ME 803(C) Entrepreneurship and Management Concepts

Course Objective:

To familiarize the students with the concepts and applications of Management, Marketing, Productivity & Entrepreneurship in competitive world.

Unit-I

System Concepts: Types, definition & characteristics; supra & subsystems, key component: boundary & interface complexity; feedback (pull) & feed forward (push) controls; open flexible-adaptive system, computer as closed system; law of requisite variety; system coupling, stresses and entropy; functional & cross functional system; Seven Altar's nine elements work system model and its comparison with IPO (input-processing-output) model; structure and performance of work systems leading to customer delight.

Unit-II

Management: Importance, definition and functions; schools of theories; knowledge driven learning organization and e-business; environment, necessary and adaptability; corporate culture, difficulties and levels of planning, BCG matrix, SWOT analysis, steps in decision making, structured and unstructured decision; dimensions of organization, time-specialization, behavior formalization, authority centralization, departmentalization, span and line of control, technology and Mintzberg organization typology; line, staff & matrix organization, coordination by task force, business process reengineering and process of change management, HR planning placement and training, MIS, attitudes and personality trait, overlap and differences between leader & manager, leadership grid, motivation, Maslow's need hierarchy and Herzberg two factor theory, expectation theory, learning process, team work and stress management.

Unit-III

Marketing: Importance, definition, core concepts of need want and demand, exchange & relationships, product value, cost and satisfaction (goods and services) marketing environment; selling, marketing and societal marketing concepts; four P's, product, price, placement, promotion; consumer, business and industrial market, market targeting, advertising, publicity, CRM and market research. Finance: Nature and scope, forms of business ownerships, balance sheet, profit and loss account, fund flow and cash flow statements, break-even point (BEP) and financial ratio analysis, pay-back period, NPV and capital budgeting.

Unit-IV

Productivity and Operations: Productivity, standards of living and happiness, types of productivity, operations (goods and services) Vs project management, production processes and layout, steps in method improvement, time measurement, rating and various allowances; standard time and its utility.



Systems Engineering

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) [Mechanical Engineering] (w.e.f. July, 2020)

VII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	ME 701	DC	Heat and Mass Transfer	70	20	10	30	20	150	2	1	2	4
2.	ME702	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	ME703	OE	Open Elective	70	20	10	-	-	100	3	0	0	3
4.	ME 704	D Lab	CAD/CAM/CIM	-	-	-	30	20	50	-	-	6	3
5.	ME 705	O/E lab	MATLAB and R Programming	-	-	-	30	20	50	-	-	6	3
6.	ME706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	ME 607		Evaluation of Internship -III	-	-	-	-	100	100	-	-	6	3
8.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SW.A.T.M platform (MERD) as respective UG level.											
Total				210	60	30	190	210	700	8	2	28	24

Departmental Electives	Open Electives
702(A) Advance Machining Processes	703(A) Operation Research and Supply Chain
702 (B) Internet of Things (IOT)	703(B) Artificial Intelligence Techniques
702 (C) Power Plant Engineering	703(C) Systems Engineering
702 (D) Advance Machine Design	703 (D) Reliability Engineering

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Mechanical Engineering, VII-Semester

Open Elective ME-703(C) Systems Engineering

This course in systems engineering examines the principles and process of creating effective systems to meet application demands.

The course is organized as a progression through the systems engineering processes of analysis, design, implementation, and deployment with consideration of verification and validation throughout.

COURSE OUTCOME: After successful completion of the course, students would be able to

- * Plan and manage the systems engineering process.
- * Examine systems from many perspectives (such as software, hardware, product, etc.)
- * Distinguish critical functions, diagnose problems, and apply desecoping strategies and judge the complexity of production and deployment issues.
- * Know about the complexity in modern systems such as in missiles, rocket engines, modern automobiles etc.
- * Solve real complex problems.

Syllabus:

Unit 1: Overview of Systems Engineering:

Introduction, Origin, Examples of Systems requiring systems engineering, Systems Engineer Career Development Model, Perspectives of Systems Engineering, Systems Domains, Systems Engineering Fields, System Engineering Approaches.

Unit 2: Structure of Complex Systems:

System Building Blocks and Interfaces, Hierarchy of Complex Systems, System Building Blocks, The System Environment, Interfaces and Interactions, Complexity in Modern Systems.

Unit 3 Concept Development and Exploration:

Originating a New System, Operational Analysis, Functional Analysis, Feasibility, System Operational Requirements, Implementation of Concept Exploration, Exploration in system life cycle, Concept definition phase, Activities involved in concept definition phase.

Unit 4: Engineering Development:

Reducing Program Risks, Requirements Analysis, Functional Analysis and Design, Prototype Development as a Risk Mitigation Technique, Development Testing, Risk Reduction, Place of engineering design phase in system life cycle, Various activities involved in engineering design phase.

Unit 5: Integration and Evaluation:

Integrating, Testing, And Evaluating The Total System, Test Planning And Preparation, System Integration, Developmental System Testing, Operational Test And Evaluation, Engineering For Production, Transition From Development To Production, Production Operations, operation and support phase.





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Industrial Engineering and Ergonomics

Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Mechanical Engineering (w.e.f. July, 2019)

V Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	ME 501	DC	I C Engines	70	20	10	30	20	150	3	-	2	4
2.	ME 502	DC	Mechanical Vibration	70	20	10	30	20	150	2	1	2	4
3.	ME 503	DE	Departmental Elective	70	20	10	-	-	100	4	-	-	4
4.	ME 504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
5.	ME 505	D Lab	FEM/CFD Lab	-	-	-	30	20	50	-	-	4	2
6.	ME 506	O/E Lab	Python	-	-	-	30	20	50	-	-	4	2
7.	ME 507	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	6	3
8.		IN	Internship - III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	ME 508	P	Minor Project 1	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits*		*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.										
Total				280	80	40	120	230	750	12	1	22	24

Departmental Electives	Open Electives
ME 503 (A) Mechatronics	ME 504 (A) Industrial Engineering & Ergonomics
ME 503 (B) Dynamics of Machine	ME 504 (B) TQM and SQC
ME 503 (C) Alternate Automotive Fuels & Emissions	ME 504 (C) Finite Element Method

RAJIV GANDHI PROUDVYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Mechanical Engineering, V-Semester

Open Elective ME-504 (A) Industrial Engineering & Ergonomics

Unit 1 Method study: purpose of work study, its objectives, procedure and applications; method study definition and basic procedure, selection of job, various recording techniques like outline process charts, flow process charts, man machine charts, two handed process charts, string diagram, flow diagram, multiple activity chart, simo, cyclographs and chrono-cyclographs; critical examination, development, installation and maintenance of improved method; principles of motion economy and their application in work design; micro motion study, memo motion study and their use in methods study.

Unit 2 Work measurement: Introduction & definition, objectives and basic procedure of work measurement, application of work measurement in industries; time study, basic procedure, equipments needed, methods of measuring time, selection of jobs, breaking a job into elements; numbers of cycles to be timed; rating and methods of rating, allowances, calculation of standard time.

Work sampling: Basic procedure, design of work sampling study conducting work sampling study and establishment of standard-time.

Unit 3 Job evaluation and incentive schemes: Starlight line, Taylor, Merrick and Gantt incentive plans

Standard data system; elemental and non-elemental predetermined motion systems, work factors system, Methods Time Measurement (MTM), MOST

Unit 4 Human factor engineering: Definition and history of development of human factors engineering, types & characteristics of man-machine-system, relative capabilities of human being and machines; development and use of human factor data, information input and processing; Introduction to information theory; factors effecting information reception and processing; coding and selecting of sensory inputs.

Unit 5 Display systems and anthropometric data: Display- types of visual display, visual indicators and warning signals; factorial and graphic display; general principles of auditory and tactual display, characteristics and selection.

Reference:

1. ILO, work-study; International Labour Organization
2. Khan MI; Industrial Ergonomics; PHI Learning
3. Barnes RM; Motion and Time Study; Wiley pub
4. Megaw ED; Contemporary ergonomics; Taylor & Francis
5. Sanders M and Mc Cormick E; Human Factors in Engg and design; MGHill
6. Currie RM; Work study; BDM publications
7. Mynard; Hand book of Industrial Engg



Process safety and Hazards Management

Rajiv Gandhi Pradyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) Chemical Engineering **(w.e.f. Jan. 2021)**

VIII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks	Contact Hours per week			Total Credits	
				Theory		Practical			L	T	P		
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem						Term work Lab Work & Sessional
1.	CM -801	DC	Chemical Process Modeling & Simulation	70	20	10	30	20	150	2	1	2	4
2.	CM -802	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	CM -803	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
4.	CM -804	D/O/E Lab	Petrochemical Technology Lab	-	-	-	30	20	50	-	-	6	3
5.	CM -805	P	Major Project-II	-	-	-	70	30	100	-	-	3	4
6.	Additional Credits'	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.										UG	
Total				210	60	30	130	70	500	8	2	16	13

Departmental Electives		Open Electives	
801(A) Process Piping Design		803(A) Process Plant Economics & Management	
802 (B) Process safety & Hazards Management		803(B) Petrochemical Technology	
802 (C) Fertilizer Technology		803(C) IPR (Intellectual Property Right)	

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Chemical Engineering, VIII-Semester

Departmental Elective CM 802 (B) Process safety & Hazards Management

Course Objective

To know about industrial safety programs and toxicology. Industrial laws, regulations and source models. To understand about fire and explosion, preventive methods, relief and its sizing methods. To analyze industrial hazards and its risk assessment.

Unit- I Introduction: Origin of process hazards, Laws Codes, Standards, Case Histories, Properties of Chemicals, and Health hazards of industrial substances.

Unit - II Toxicology: Toxic materials and their properties, effect of dose and exposure time, relationship and predictive models for response. Threshold value and its definitions, material safety data sheets, industrial hygiene evaluation.

Unit - III Fire & Explosion: Fire and explosion hazards, causes of fire and preventive methods. Flammability characteristics of chemical, fire and explosion hazard, rating of process plant. Propagation of fire and effect of environmental factors, ventilation, dispersion, purifying and sprinkling, safety and relief valves.

Unit- IV Energy Hazards: Electrical hazards, noise hazard, radiation hazard in process operations, hazards communication to employees, plant management and maintenance to reduce energy hazards. Risk Analysis: Component and plant reliability, event probability and failure, plant reliability, risk analysis.

Unit- V Analysis and Assessment: HAZOP AND HAZAN, event and consequence analysis (vapour cloud modelling) Designing for safety, measurement and calculation of risk analysis. Hazard Assessment: Failure distribution, failure data analysis, modeling for safety, safety training, emergency planning and disaster management, case studies.

References:

1. Crawl D.A. and Louvar J.A., "Chemical process safety fundamentals with applications, Prentice Hall of India, New Delhi
2. Wenx, C.A., "Safety health and environmental protection," McGraw Hill, 2001.
3. Smith, B.D., "Design of equilibrium state process," McGraw Hill 1
4. Van Winkle, "Distillation," McGraw Hill





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Information Security

Rajiv Gandhi Proudvyogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
VIII Semester Bachelor of Technology (B.Tech.) Information Technology (w.e.f. Jan, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	IT-801	DC	Information Security	70	20	10	30	20	150	2	1	2	4
2.	IT-802	DE	Departmental Elective IV	70	20	10	-	-	100	3	1	-	4
3.	IT-803	OE	Open Elective IV	70	20	10	-	-	100	3	-	-	3
4.	IT-804	D/O/E Lab	Machine Learning Lab	-	-	-	30	20	50	-	-	6	3
5.	IT-806	P	Major Project-II	-	-	-	70	30	100	-	-	8	4
6.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.										UG	
7.			Total	210	60	30	130	70	500	8	2	16	18

Departmental Electives	Open Electives
802(A) Machine Learning	803(A) Blockchain Technology
802 (B) Natural Language Processing	803(B) Human Computer Interaction
802 (C) Robotics	803(C) 3D Printing and Design
802 (D) Quantum Computing	803 (D) Parallel Computing

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Information Technology, VIII- semester

IT 801- Information Security

Course Objectives:

The objective of this course is to familiarize the students with the fundamentals of information security and the methods used in protecting both the information present in computer storage as well as information traveling over computer networks.

Unit I Introduction: Fundamental Principles of Information Security- Confidentiality, Availability, Integrity, Non Repudiation, The OSI Security Architecture, Security Attacks, Security Services, Security Mechanisms, a Model for Network Security, Classical Encryption Techniques: Symmetric Cipher Model, Substitution Techniques, Transposition Techniques, Steganography

Unit II Block Ciphers and Data Encryption Algorithm: Block Cipher Principles, The Data Encryption Standard, The Strength of DES, Differential and linear cryptanalysis, Block Cipher Design Principles: Advanced Encryption Standard: Evaluation criteria of AES, The AES Cipher, Multiple Encryption and Triple DES, Block Cipher modes of operation, Stream Ciphers, Confidentiality using Symmetric Encryption

Unit III Public Key Encryption: Principles of Public Key Cryptosystems, The RSA algorithm, Key Management, Diffie-Hellman Key Exchange, Elliptic curve cryptography, Message Authentication and Hash Functions: Authentication requirements, Authentication Functions, Message Authentication Codes, Hash Functions, Security of Hash Functions and MACs; Hash and MAC algorithms: Secure Hash Algorithm, HMAC, Digital Signatures and Authentication Protocol, Digital Signature Standard

Unit IV Authentication Applications: Kerberos, X.509 Authentication Service, Public key infrastructure, Electronic Mail Security: Pretty Good Privacy, IP Security: IP Security Overview, Architecture, Authentication header, encapsulating security payload, Key management; Web Security: Web security considerations, Secure Socket Layer and Transport layer Security, Secure Electronic Transaction

Unit V System Security: Intruders, Intrusion Detection, Password management, Malicious Software: Different type of malicious software, Viruses and related threats, Virus Countermeasures, Threats and attacks on Information Security, DoS and DDoS Attacks; Security controls required for Information Security, Firewalls: Firewall design principles, Trusted Systems, Common criteria for information technology security evaluation

References:

1. William Stallings, "Cryptography and Network Security", Fourth edition, PHI
2. Anal Kabata, "Cryptography and Network Security", McGraw Hill
3. V.K. Pachghare, "Cryptography and Information Security", PHI Learning





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Cyber laws and forensics

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) [Information Technology] (w.e.f July, 2020)

VII Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	IT-701	DC	Soft Computing	70	20	10	30	20	150	2	1	2	4
2.	IT-702	DE	Departmental Elective	70	20	10	-	-	100	3	1	-	4
3.	IT-703	OE	Open Elective	70	20	10	-	-	100	3	0	0	3
4.	IT-704	D Lab	Cloud Computing Lab	-	-	-	30	20	50	-	-	6	3
5.	IT-705	O/E lab	IoT Lab	-	-	-	30	20	50	-	-	6	3
6.	IT-706	P	Major Project-I	-	-	-	100	50	150	-	-	8	4
7.	IT-607		Evaluation of Internship -III	-	-	-	-	100	100	-	-	6	3
8.	Additional Credits'	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MERD) at respective UG level.										UG	
9.			Total	210	60	30	190	210	700	8	2	28	24

Departmental Electives	Open Electives
702(A) Data Science	703(A) Cyber Laws and Forensics
702 (B) Cloud Computing	703(B) Internet of Things
702 (C) Simulation and Modeling	703(C) Social Networks
702 (D) Augmented and Virtual Reality	703 (D) Digital Image Processing

RAJIV GANDHI PROUDVOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Information Technology, VII-Semester

Open Elective IT 703 (A) Cyber Laws and Forensics

Course Objective:

The objective of this course is to emphasize the importance of cyber laws and digital forensics, and to prepare students to conduct a digital investigation in an organized and systematic way.

UNIT-I Introduction to cybercrime, definition, cyber crime and information security, classification of cybercrimes, cybercrime: the legal perspectives, an Indian perspective, cybercrime and the Indian ITA 2000, a global perspective on cybercrime, Cyber offense: How criminals plan them, Tools and methods used in cyber crime, Need of cyber law, The Indian IT act, challenges to Indian law and cybercrime scenario in India, digital signature and Indian IT act, Amendments in the Indian IT act, cybercrime and punishment

UNIT-II Law and framework for information security, law for intellectual property rights(IPR), patent law, copy right law, Indian copyright act, privacy issue and law in Hong Kong, Japan, and Australia, data protection act in Europe, health insurance portability and accountability act of 1996(HIPAA), Gramm-leach-Bliley act of 1996(GLAB), Sarbanes-Oxley(SOX), legal issue in data mining, building security into software/system development life cycle.

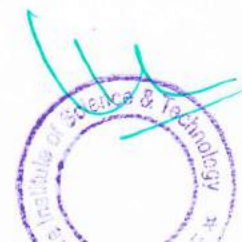
UNIT III Digital forensics Science, The need for computer forensics, Understanding computer forensics, computer forensics versus other related disciplines, A brief History of computer Forensics, Cyber forensics and digital evidence, Digital forensics lifecycle, chain of custody concept, Network forensics, Approaching a computer forensics investigation, setting up a computer forensics laboratory, Forensics and social networking sites, computer forensics from compliance perspective, challenges in computer forensics, forensics auditing, anti-forensics

UNIT IV Current Computer Forensics Tools, Evaluating Computer Forensics Tool Needs, Types of Computer Forensics Tools, Tasks Performed by Computer Forensics Tools, Tool Comparisons, Other Considerations for Tools, Computer Forensics Software Tools, Command-Line Forensics Tools, UNIX/Linux Forensics Tools, Other GUI Forensics Tools, Computer Forensics Hardware Tools, Forensic Workstations

UNIT V Forensics of hand held devices, Investigating Network Intrusions and Cyber Crime, Network Forensics and Investigating logs, Investigating network Traffic, Investigating Web attacks, Router Forensics, Cyber forensics tools and case studies.

References:

- 1) The Indian Cyber law with Cyber glossary, Suresh T. Vishwanathan, New Delhi, Bharat Law House, 2000.
- 2) Law of Cyber Crimes and Information Technology Law, S.V. Joga Rao, 2007.
- 3) Cory Altheide, Harlan Carvey, Digital Forensics with Open Source Tools, Syngress imprint of Elsevier.
- 4) Bill Nelson, Amelia Phillips, Christopher Stewart, "Guide to Computer Forensics and Investigations", Fourth Edition, Course Technology.
- 5) Angus M. Marshall, "Digital forensics: Digital evidence in criminal investigation", John - Wiley and Sons, 2003.





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Intellectual Property rights

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) Information Technology **(w.e.f. Jan, 2020)**

VI Semester

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam	Quiz/ Assignment	End Sem	Term work Lab Work & Sessional					
1.	IT601	DC	Computer Graphics & Multimedia	70	20	10	30	20	150	2	1	2	4
2.	IT602	DC	Wireless and Mobile Computing	70	20	10	30	20	150	2	1	2	4
3.	IT603	DE	Departmental Elective	70	20	10	-	-	100	4	-	0	4
4.	IT604	OE	Open Elective	70	20	10	-	-	100	4	-	0	4
5.	IT605	D Lab	Programming in Python	-	-	-	30	20	50	-	-	6	3
6.	IT606	O/E Lab	Android Programming	-	-	-	30	20	50	-	-	6	3
7.	IT607	IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
8.	IT608	P	Minor Project II	-	-	-	-	50	50	-	-	4	2
9.	Additional Credits*	*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MHRD) at respective UG level.											
Total				280	80	40	120	130	650	12	2	20	24

Departmental Electives	Open Electives
603 (A) Compiler Design	604(A) Intellectual Property Rights
603 (B) Data Mining	604(B) Software Engineering
603 (C) Embedded Systems	604 (C) Wireless Sensor Networks

New Scheme Based On AICTE Flexible Curricula

Information Technology, VI-Semester

Open Elective IT 604(A) Intellectual Property Rights

Course Objectives:

1. To enable Students to understand Primary forms of IPR.
2. To enable Students to understand what is infringement of copyright and its consequences
3. To introduce criteria and procedure for obtaining patents
4. To enable Students to understand the registration procedures related to IPR.
5. To expose Students to contemporary issues and enforcement policies in IPR.

UNIT I Introduction

Introduction and Justifications of IPR, Nature of IP, Major forms of IP- Copyright, Patent, Trade Marks Designs, Geographic indication, layout design of Semi conductors, Plant varieties, Concept & Meaning of Intellectual Property, Major international documents relating to the protection of IP - Berne Convention, Paris Convention, TRIPS, The World Intellectual Property Organization (WIPO).

UNIT II Copyright

Meaning and historical development of copyright, Subject matter, Ownership of copyright, Term of copyright, Rights of owner, Economic Rights, Moral Rights, Assignment and licence of rights, Infringement of copyright, Exceptions of infringement, Remedies, Civil, Criminal, Administrative, Registration Procedure.

UNIT III Patents

Meaning and historical development, Criteria for obtaining patents, Non patentable inventions, Procedure for registration, Term of patent, Rights of patentee, Compulsory licence, Revocation, Infringement of patents, Exceptions to infringement, Remedies, Patent office and Appellate Board.

UNIT IV - Trade Marks, Designs & GI

Trade Marks: Functions of marks, Procedure for registration, Rights of holder, Assignment and licensing of marks, Infringement, Trade Marks Registry and Appellate Board.

Designs: Meaning and evolution of design protection, Registration, Term of protection, Rights of holder, unregistered designs.

Geographical Indication: Meaning and evolution of GI, Difference between GI and Trade Marks, Registration, Rights, Authorised user.





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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E Commerce and Governance

Rajiv Gandhi Proudvogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

V Semester Bachelor of Technology (B.Tech.) [Information Technology] (w.e.f. July 2020)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted				Total Marks	Contact Hours per week			Total Credits	
				Theory			Practical		L	T	P		
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem. Term work Lab Work & Sectional						
1.	IT 501	DC	Operating System	70	20	10	30	20	150	3	-	2	4
2.	IT 502	DC	Computer Network	70	20	10	30	20	150	3	-	2	4
3.	IT 503	DE	Departmental Elective-I	70	20	10	-	-	100	3	1	-	4
4.	IT 504	OE	Open Elective-I	70	20	10	-	-	100	3	-	-	3
5.	IT 505	D Lab	Advanced Java Lab	-	-	-	30	20	50	-	1	2	2
6.	IT 506	HSMC Lab	Soft Skills and Interpersonal Communication	-	-	-	30	20	50	-	1	2	2
7.	IT 507	IN	Evaluation of Internship-II	-	-	-	-	100	100	-	-	5	3
8.		IN	Internship-III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	IT 508	P	Minor Project / Seminar	-	-	-	-	50	50	-	-	4	2
10.	Additional Credits*			*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MERED) at respective UG level.									
Total				280	80	40	120	230	760	12	3	18	24

Departmental Elective - I

IT 503 (A) Theory of Computation
IT 503 (B) Microprocessor & Interfacing
IT 503 (C) Object Oriented Analysis and Design

Open Elective - I

IT 504 (A) Artificial Intelligence
IT 504 (B) E Commerce & Governance
IT 504 (C) Java Programming

RAJIV GANDHI PROUDVOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Information Technology, V-Semester

Open Elective IT-504 (B) E Commerce & Governance

Course Objectives

- Discuss fundamentals of e-commerce, types and applications.
- Evaluate the role of the major types of information systems in a business environment and their relationship to each other
- Assess the impact of the Internet and Internet technology on business electronic commerce and electronic business
- Identify the major e-commerce challenges for building and using information systems and learn how to find appropriate solutions to these challenges.
- Learn strategies for e-commerce, e-government, Wireless Application Protocol, WAP technology and electronic payment system.

Unit I: Introduction

Definition of Electronic Commerce, Brief history of E-commerce, a. E-Commerce: technology and prospects, incentives for engaging in electronic commerce, needs of E-Commerce, advantages and disadvantages, Inter Organizational E-Commerce Intra Organizational E-Commerce, and Consumer to Business Electronic Commerce, Architectural framework, Impact of E-commerce on business, E-Commerce Models.

Unit II: Network Infrastructure for E-Commerce

Internet and Intranet based E-commerce- Issues, problems and prospects, Network Infrastructure, Network Access Equipments, Broadband telecommunication (ATM, ISDN, FRAME RELAY), Mobile Commerce: Introduction, Wireless Application Protocol, WAP technology, Mobile Information device, Emerging Client Server Security Threats, firewalls & Network Security.

Unit III: E-Marketplaces, e Procurement and e Payment Systems

Define e-Marketplace and Describe their Functions. Explain e-Marketplace types and their features. Describe the various types of auctions and list their characteristics. Discuss the benefits, limitations and impacts of auctions. E-Commerce in the wireless environment. Competition in the DE and impact on industry. Integration and e-Business suits, ERP, e5CM, CRM. e-Procurement definition, processes, methods and benefits. e-Payment. Discuss the categories and users of smart cards. Describe payment methods in B2B EC

Unit IV: Electronic Payment System

Electronic Payments Overview of Electronics payments, Overview, The SET protocol, Payment Gateway, Digital Token based Electronics payment System, magnetic strip card, E-Checks, Smart Cards, Credit Card, Debit Card based EPS, Emerging financial Instruments, Home Banking, Online Banking.

Unit V: e-Government

Definition of e-Governments, theoretical background of e-governance, issues in e-governance applications, evolution of e-governance, Implementation, E-Government Services, Challenges and Opportunities, E-Government Benefits, e-governance models- broadcasting, critical flow, comparative analysis, mobilization and lobbying, interactive services / G2C2G.





INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Entrepreneurship development and management

V Semester

Rajiv Gandhi Proud yogini Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech) Civil Engineering (w.e.f. July, 2019)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem.	Term work Lab Work & Sessional					
1.	CE-501	DC	Fluid Mechanics I	70	20	10	30	20	150	2	1	2	4
2.	CE-502	DC	Transportation Engg II	70	20	10	30	20	150	2	1	2	4
3.	CE-503	DE	Departmental Elective	70	20	10	-	-	100	4	-	-	4
4.	CE-504	OE	Open Elective	70	20	10	-	-	100	3	-	-	3
5.	CE-505	D Lab	Quantity surveying & Costing	-	-	-	30	20	50	-	-	4	2
6.	CE-506	OE Lab	Material Testing Lab	-	-	-	30	20	50	-	-	4	2
7.	CE-507	IN	Evaluation of Internship-II	-	-	-	-	100	-	-	6	3	
8.		IN	Internship -III	To be completed anytime during Fifth/Sixth semester. Its evaluation/credit to be added in Seventh Semester.									
9.	CE-508	P	Field Visit, Case Study and Seminar	-	-	-	-	50	50			4	2
10.	Additional Credits*		*Additional credits can be earned through successful completion of credit based MOOC's Courses available on SWAYAM platform (MERD) at respective UG level.										
Total				280	80	40	120	230	750	11	2	22	24

Departmental Electives	Open Electives
CE503 (A) Structural Analysis-II	CE504 (A) Urban and town planning
CE503 (B) Construction planning and management	CE504 (B) Remote Sensing and GIS
CE503 (C) Quantity surveying & Costing	CE504 (C) Renewable energy resources
CE503 (D) Marine Construction	CE504 (D) Entrepreneurship development and management

RAJIV GANDHI PROUDYOGINI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Civil Engineering, V-Semester

Open Elective CE- 504 (D) Entrepreneurship Development & Management

UNIT I

Entrepreneurship Entrepreneur: Types of Entrepreneurs – Difference between Entrepreneur and Intrapreneur Entrepreneurship in Economic Growth, Factors Affecting Entrepreneurial Growth.

UNIT II

Motivation Major Motives Influencing an Entrepreneur - Achievement Motivation Training Self Rating, Business Games, Thematic Apperception Test - Stress Management, Entrepreneurship Development Programs - Need, Objectives.

UNIT III

Business Small Enterprises – Definition, Classification - Characteristics, Ownership Structures - Project Formulation - Steps involved in setting up a Business - identifying, selecting a Good Business opportunity, Market Survey and Research, Techno Economic Feasibility Assessment - Preparation of Preliminary Project Reports - Project Appraisal - Sources of Information - Classification of Needs and Agencies.

UNIT IV

Financing And Accounting Need - Sources of Finance, Term Loans, Capital Structure, Financial Institution, Management of working Capital, Costing, Break Even Analysis, Taxation - Income Tax, Excise Duty - Sales Tax.

UNIT V

Support To Entrepreneurs: Sickness in small Business - Concept, Magnitude, Causes and Consequences, Corrective Measures - Business Incubators - Government Policy for Small Scale Enterprises - Growth Strategies in small industry - Expansion, Diversification, Joint Venture, Mergers and Sub Contracting.

Reference Books:-

- 1.Khanika. S.S., "Entrepreneurial Development" S Chand & Co. Ltd, Ram Nagar, New Delhi, 2013.
- 2.Donald F Kuratko, "Entrepreneurship - Theory, Process and Practice", 8th Edition, Cengage Learning 2014.
- 3.Hirsch R. D., Peters M.P, "Entrepreneurship" 8th Edition, Tata McGraw-Hill, 2013.
- 4.Matthew J Mammlala, "Entrepreneurship theory at cross roads: paradigms and praxis" 2nd Edition Dream tech, 2005.
- 5.Rajeev Roy, "Entrepreneurship" 2nd Edition, Oxford University Press, 2011.
- 6.EDII "Faulty and External Experts - A Hand Book for New Entrepreneurs Publishers: Entrepreneurship Development", Institute of India, Ahmadabad, 1986





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Anti-Ragging committee



**Indore Institute of
Science & Technology**

IIST/June-23/02


Academic Year 2023-24

Date: 09/06/2023

Anti-Ragging Squad

As per the notification of AICTE, New Delhi dated 01/07/2009, subject: Prevention and prohibition of Ragging in technical Institutes, the Institute has constituted **Anti-Ragging Squad** for the academic year 2023-24 as mentioned below:

Anti-Ragging Squad			
Sr. No.	Name	Sr. No.	Name
1.	Dr. Parimeeta Chanchani	10.	Ms. Rupali Tiwari
2.	Mr. Shantanu Roy	11.	Mr. Pankaj Malviya
3.	Dr. Irfan Mansuri	12.	Dr. Sukhdev Bamboriya
4.	Mr. Akashdeep Gupta	13.	Mr. Rohit Dwivedi
5.	Mr. Titu Singh Arora	14.	Ms. Jaya Singh
6.	Mr. Devendra Mandloi	15.	Mr. Mahaveer Singh Dangi
7.	Mr. Ishanya Joshi	16.	Mr. Rajesh Tiwari
8.	Ms. Kirti Chaubey	17.	Mr. Ranjan Potdar
9.	Ms. Rupal Yadav	18.	Mr. Jeevan Singh Dodiya


(Dr. Keshav Patidar)
Principal, IIST, Indore

CC to:

1. All Faculty and Staff,
2. Dean/HoDs,
3. Registrar Office,
4. Admin Dept.,
5. DG Office,
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Indian Knowledge System

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal

Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) [Computer Science and Engineering/
Computer Engineering/Computer Science & Technology]

IV Semester

For batches admitted in July, 2020 (w.e.f. Jan, 2022)

S. No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem.	Term work Lab Work & Sessional					
1.	BT401	BSC	Mathematics- III	70	20	10	-	-	100	3	1	-	4
2.	CS402	DC	Analysis Design of Algorithm	70	20	10	30	20	150	2	1	2	4
3.	CS403	DC	Software Engineering	70	20	10	30	20	150	3	1	2	5
4.	CS404	DC	Computer Org. & Architecture	70	20	10	30	20	150	3	1	2	5
5.	CS405	DC	Operating Systems	70	20	10	30	20	150	3	0	2	4
6.	CS406	DLC*	Programming Practices	-	-	-	30	20	50	-	-	4	2
7.	BT407	DLC	90 hrs Internship based on using various software's -Internship -II	To be completed anytime during fourth semester. Its evaluation/credit to be added in fifth semester.								3	
Total				350	100	50	150	100	750	14	4	12	24
8.	BT408	MC	Cyber Security	Non-credit course									
9.	BT409I	MC	Indian Knowledge System	Non-credit course									
	NC001		NSS/NCC										

*A minimum of 2hours per week should be allotted for the Virtual Lab along with the slot fixed for the conventional lab classes.

MST: Minimum of two mid semester tests to be conducted.

*Students can earn additional credits from the University recognized MOOC courses.

Indian Constitution

Rajiv Gandhi Proudhyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

Bachelor of Technology (B.Tech.) [Electronics & Communication Engineering]

III Semester

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical			L	T	P	
				End Sem.	Mid Sem. Exam.	Quiz/Assignment	End Sem.	Term work Lab Work & Sessional					
1.	BT301	BSC-5	Mathematics-III	70	20	10	-	-	100	3	1	-	4
2.	EC302	DC-1	Electronic Measurement & Instrumentation	70	20	10	-	-	100	3	1	-	4
3.	EC303	DC-2	Digital System Design	70	20	10	30	20	150	3	-	2	4
4.	EC304	DC-3	Electronic Devices	70	20	10	30	20	150	3	-	2	4
5.	EC305	DC-4	Network Analysis	70	20	10	30	20	150	3	-	2	4
6.	EC306	DLC-3	EMI Lab	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at I year level	-	-	-	-	50	50			4	2
8.	BT307	DLC-4	90 hrs Internship based on using various software's -Internship -II	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.									
Total				350	100	50	120	130	750	15	2	14	24
9.	BT308	MC	Indian Constitution	Non-credit course									
			NSS/NCC										

*Students can earn additional credits from the University recognized MOOC courses.





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Expert lecture on Human Values & Ethics by Shri Arun S Bhatnagar



Indore Institute of Science and Technology

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Indore Institute of Science and Technology Event Report

Academic Year – 2022-23 Session: July-Dec 2022

Name of Event: Expert Session on "Professional Ethics and Human Values"

Date of Event: 15 December 2022

Organizing Dept.: IT

Event Coordinator: Mr. Umesh Kumar Sahu

Name of Expert/Guest: Shree.Arun.s. Bhatnagar

Institute / Company: IIST

Designation: Director General (DG)

Department: Department of Admin

Email Id: arunbhatnagar@indoreinstitute.com

Details of Participants:

No. of Institutes Participated	No. of Students Participated	Department	No. of Industry Representative	Remark if any
		CSE/IT/AI&ML		
1	234	IT/AI&ML		


HOD




Principal





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Indore Institute of Science and Technology

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DATE:12/12/2022


Approval Letter

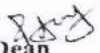
The Department of Information Technology is interested in organizing a 2 Hrs Expert Lecture on "**Professional Ethics and Human Values**" on 15th December 2022 from 11:00 AM to 12:30 PM. The Expert is Shree. Arun.S. Bhatnagar who is ready to deliver their expert session.

Kindly approve for organizing the expert lecture.


HoD IT




Principal


Dean
(CSE/IT/AI&ML)





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Indore Institute of Science & Technology

Affiliated to RGPV(Bhopal) & Approved by AICTE(New Delhi)

Department of Information Technology
organizing



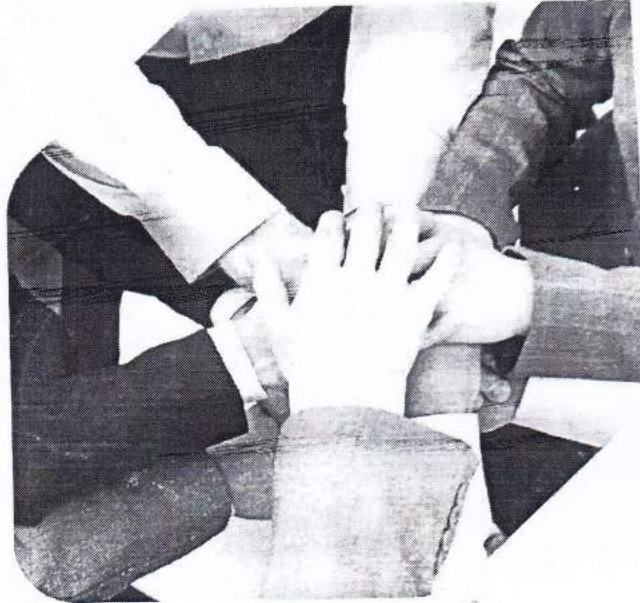
EXPERT LECTURE

on

Professional Ethics &

Human values

15th December, 2022



Expert Speaker



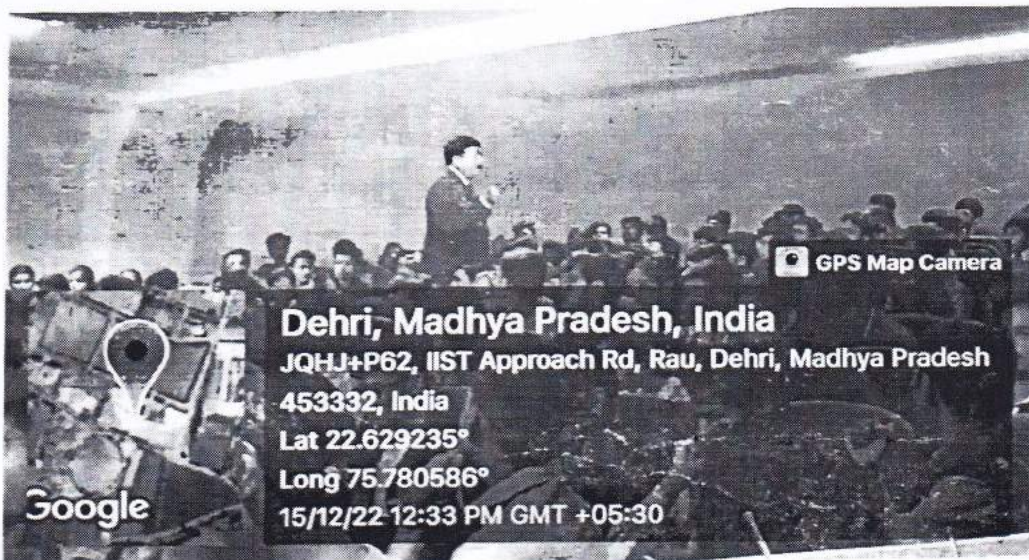
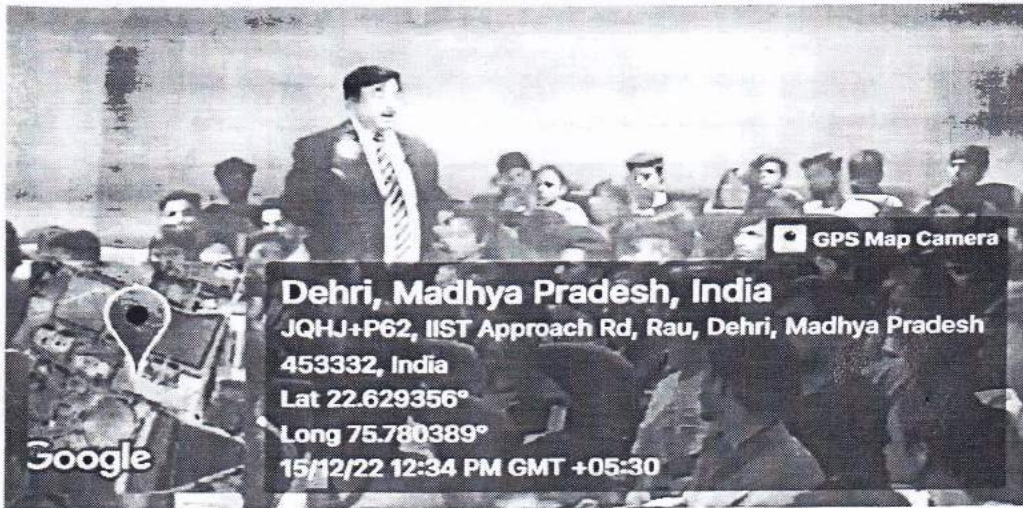
Shri ARUN S. BHATNAGAR IRS
Ex. Principal Commissioner
Exe. MBA, IIM(B)
Director General (IIST-IIP-IIMR)

Coordinator:
Mr. Umesh K. Sahu

IIST Campus, Opp. IIM(Indore), Rau-Pithampur Road, Rau, Indore 453331(MP)
www.indoreinstitute.com | info@indoreinstitute.com | www.facebook.com/IISTcollegeindore/

Toll Free: **1800 103 3069** | 822 407 1000/2000 | 822 507 2000/3000

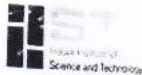






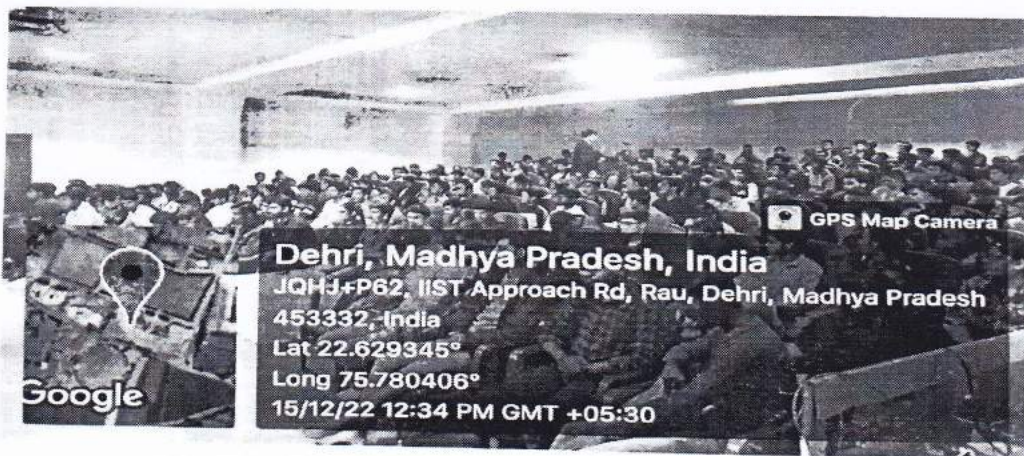
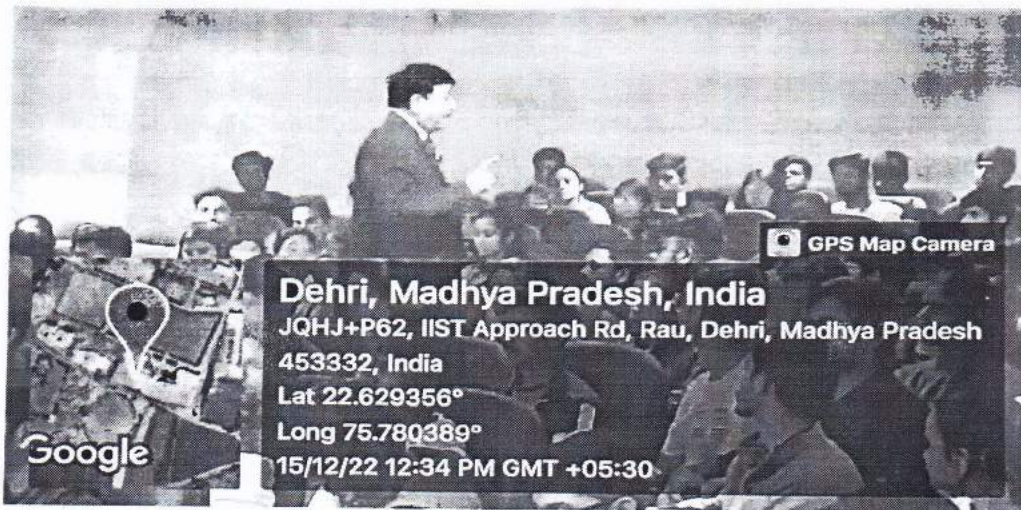
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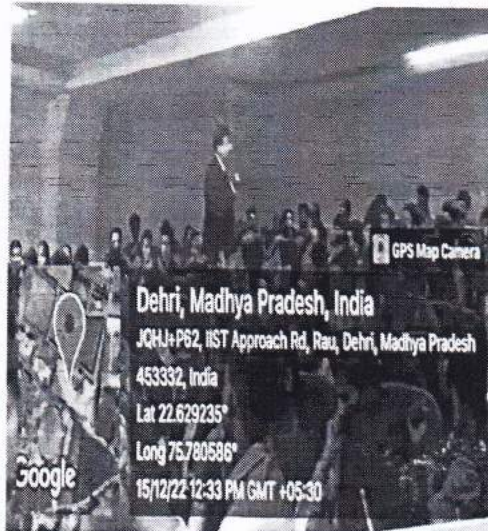
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Summary

Students learned the importance of interpersonal communication in the "Professional Ethics and Human Values" lesson and the importance of developing positive character qualities in the "Soft Skills" unit. The session was led by the esteemed Arun S. Bhatnagar, who covered a wide range of topics with the assembled experts. Nevertheless, there are a few guiding ethical concepts that are consistent across all fields:

- Honesty
- Trustworthiness
- Accountability
- Loyalty; Respect; Obeying the Law;
- Helping Others; Not Hurting Others
- Legal Obligation

The term "professional ethics" refers to the norms of conduct and personal values that are expected someone in a certain profession. The purpose of this expert session is establishing codes of professional ethics to give professionals with a set of standards to follow in their daily work lives, with the overarching goal of preventing professionals from mistreating their clients and protecting the honor and standing of their respective fields, in the same line DG Sir educated to all the **second year students of CSE / IT/ AI&ML to follow strictly in their daily routine of life.** If a professional is found to have broken one or more of these rules, the appropriate disciplinary measures will be taken by the organization responsible for overseeing the profession. Maintaining public trust in the moral standards of persons working in the industry requires a strong commitment to a code of professional ethics.



Expert lecture on Human Values by Dr. Amit Jain



Indore Institute of Science and Technology
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Indore Institute of Science and Technology Event Report (Off Campus)

Academic Year – 2022-2023

Session: July – Dec 2022

Name of Event: Expert Session on "Human Values"

Date of Event: 17th November 2022

Topic: Expert Session on "Human Values"

Organizing Dept.: CIVIL

Event Coordinator: Mr. Shashank Agrawal

Name of Partner/ co-organizer (If Industry is involved): NA

Address:

Contact No.:

Email Id:

Name of Industry Representative: NA

Contact No.:

Email Id:

Name of Expert/Guest: Dr. Amit Jain

Institute/Company: IIST Indore

Designation: Asst. Professor

Address: IIST Indore

Contact No. 0731-4010612 Email Id: iistcivil@indoreinstitute.com



Details of Participants:

No. of Institutes Participated	No. of Students Participated	Department CSE/IT/EC/ME/CM/ESH	No. of Industry Representative	Remark if any
1	30	CE	0	





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Indore Institute of Science and Technology

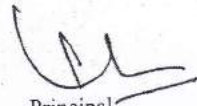
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*Please enclose a detailed list.

Also enclosed following details:

- 1. Approval Letter
- 2. Invitation card/Brochure / Leaflet (if printed by Institute or Organizing Partner) print/Social
- 3. Detailed summary on event. (Outcome)
- 4. Media Report (attach copy of newspaper)/ write-up for media/ FB write-up
- 5. Certificate / Letter (if printed by Institute or Organizing Partner)




Principal





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Indore Institute of Science and Technology

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Brochure



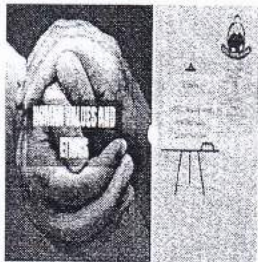
DEPARTMENT OF CIVIL ENGINEERING



Expert Session on

"Human Values"

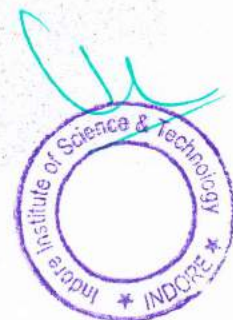
Speaker: Dr. Amit Jain



Date: 17th Nov, 2022

IIST, INDORE

Faculty Coordinator
Mr. Shashank Agrawal
Assistant Professor,
Civil Engineering Department,
IIST, Indore

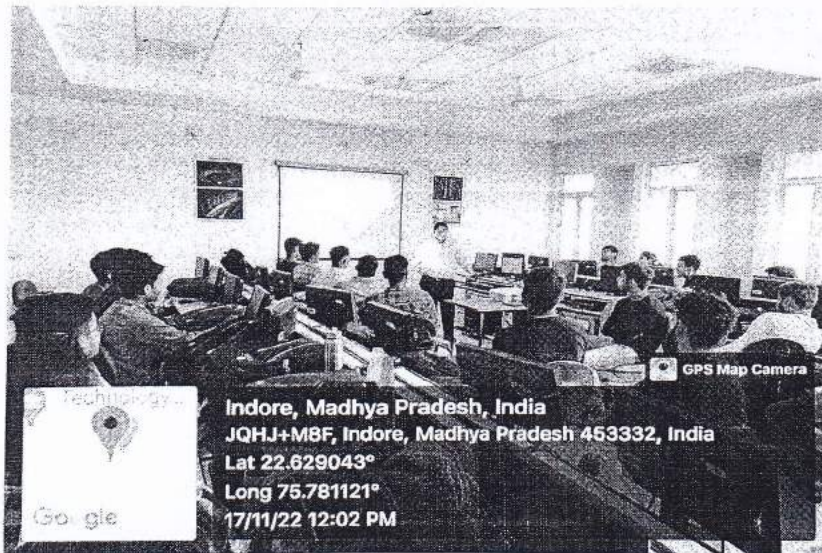
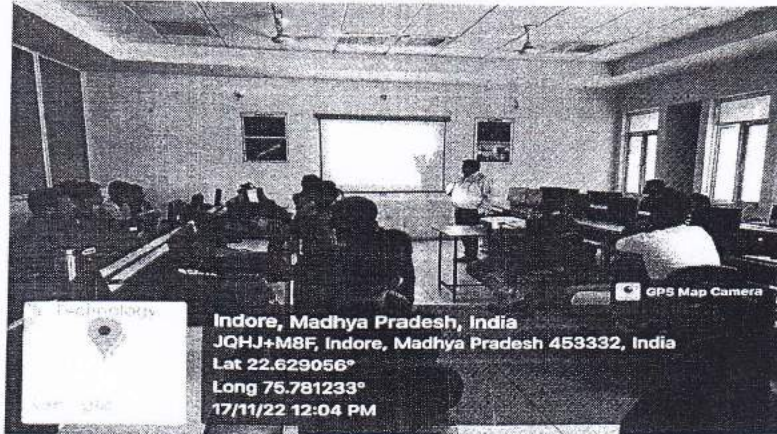




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PHOTOGRAPHS





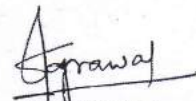
Indore Institute of Science and Technology

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DATE: 18/11/2022

REPORT

Department of Civil Engineering successfully conducts expert session on "Human Values" on 17th November 2022 in which 30 students understand the essentials of Human Values and its use for living a healthy and prosperous life. Speaker suggest them various points through examples which students were able to relate with their daily life and find its interesting and helpful for their future.


Coordinator





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Expert lecture on Professional Ethics by Dr. Niraj Soni (Smart City Expert)



Indore Institute of Science and Technology
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Indore Institute of Science and Technology Event Report (Off Campus)

Academic Year – 2022-2023 Session: July -- Dec 2022

Name of Event: Seminar on "Professiona Ethics"

Date of Event: 16th November 2022

Topic: Seminar on "Professiona Ethics"

Organizing Dept.: CIVIL

Event Coordinator: Mrs. Poonam Bagora

Name of Partner/ co-organizer (If Industry is involved): NA

Address:

Contact No.:

Email Id:

Name of Industry Representative: NA

Contact No.:

Email Id:

Name of Expert/Guest: Dr. Niraj Soni

Institute/Company: IIST Indore

Designation: Head of Department: CE

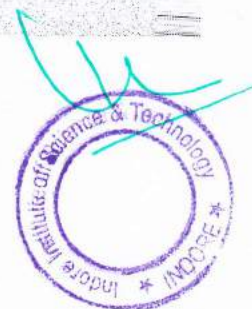
Address: IIST Indore

Contact No. 0731-4010612 Email Id: iistcivil@indoreinstitute.com



Details of Participants:

No. of Institutes Participated	No. of Students Participated	Department	No. of Industry Representative	Remark if any
		CSE/IT/EC/ME/CM/ESH		
1	42	CE	0	





Indore Institute of Science and Technology

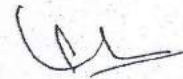
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*Please enclose a detailed list.

Also enclosed following details:

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2. Invitation card/Brochure / Leaflet (if printed by Institute or Organizing Partner) print/Social
3. Detailed summary on event. (Outcome)
4. Media Report (attach copy of newspaper)/ write-up for media/ FB write-up
5. Certificate / Letter (if printed by Institute or Organizing Partner)


HOD


Principal





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Indore Institute of Science and Technology


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DATE: 14/11/2022

Approval Letter

Department of Civil Engineering interested to conduct a Seminar on 'Professional Ethics' for Civil Engineering students on 16th November 2022. The Speaker will be Dr. Niraj Soni, Head of the Civil Engineering Department, IIST Indore.

Kindly approve the same for conducting the activity.


Faculty Coordinator— Poonam Bagora
Assistant Professor
Civil Engineering Department

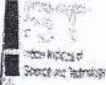
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Indore Institute of Science and Technology Approved by AICTE, New Delhi & Affiliated to RGPV, Bhopal

Brochure



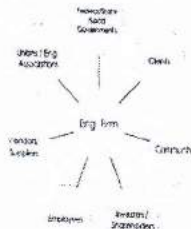
DEPARTMENT OF CIVIL ENGINEERING

Seminar on

"Professional Ethics"

Speaker: Dr. Niraj Soni

Professional Ethics



Website: www.iist.ac.in



Professional



Date: 16th Nov, 2022

IIST, INDORE

Faculty Coordinator

Ms. Poonam Bagora

Assistant Professor,
Civil Engineering Department,
IIST, Indore





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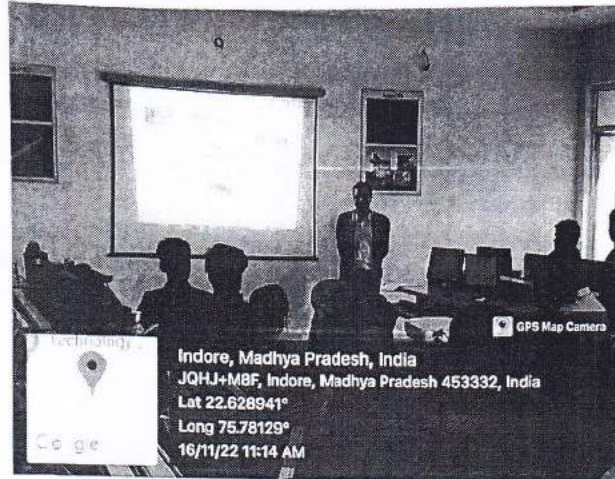
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PHOTOGRAPHS





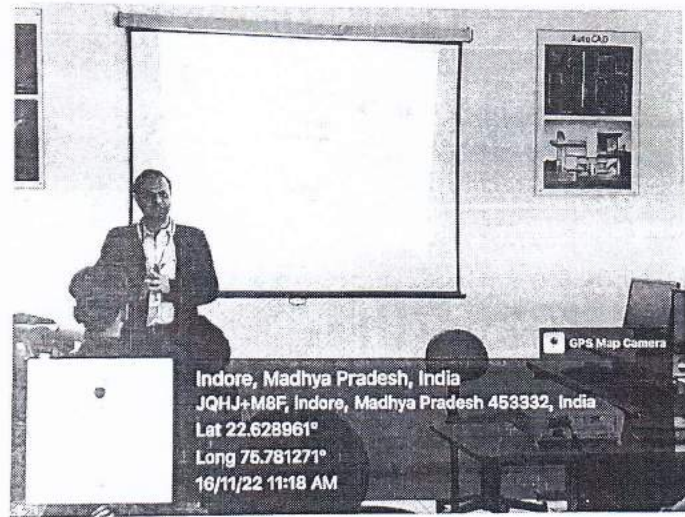
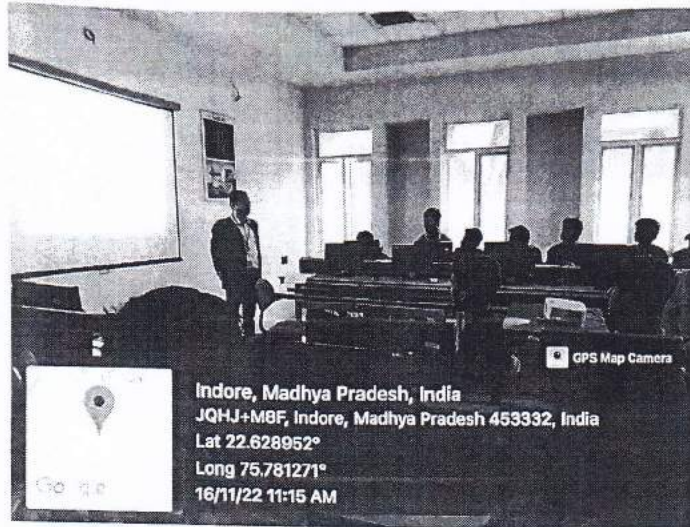
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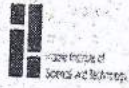
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EVENT FEEDBACK FORM

Personal Information

Name of event	Expert Lecture on Professional Ethics
Date	16/11/2022

- The presenter/ lecturer/ trainer/ facilitator(s) was/were knowledgeable
 Strongly agree Agree Partially agree Disagree Don't know
- The presenter/lecturer/trainer/ facilitator(s) was/were well-prepared
 Strongly agree Agree Partially agree Disagree Don't know
- The content of the workshop/ training/ seminar/lecture was useful.
 Strongly agree Agree Partially agree Disagree Don't know
- The content of the workshop/ training/seminar/lecture was well-planned.
 Strongly agree Agree Partially agree Disagree Don't know
- The knowledge and skills I acquired from the workshop/ training/ seminar/ lecture are of relevance to my work/are applicable to many aspects of my work.
 Strongly agree Agree Partially agree Disagree Don't know
- Broadly educated and will have an understanding of the topic.
 Strongly agree Agree Partially agree Disagree Don't know
- Clearly understanding the value of updating their professional knowledge to engage in life-long learning.
 Strongly agree Agree Partially agree Disagree Don't know
- The workshop/training/seminar /lecture have met the stated objectives fully.
 Strongly agree Agree Partially agree Disagree Don't know
- I would be interested in attending a follow-up, more
 Strongly agree Agree Partially agree Disagree Don't know
- Are you satisfied with this event
 Strongly agree Agree Partially agree Disagree Don't know


Hemant Sharma

hms



Expert lecture on Professional Ethics by Dr. Neena Thakkar

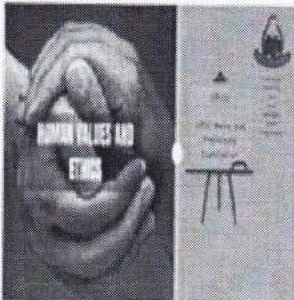
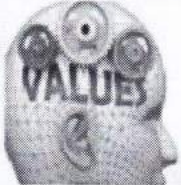
POSTER




Department of Mechanical
Engineering

Expert Session on
"Human Values"

Dr. Neena Thakkar

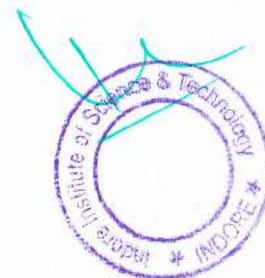





Date: 22.12.2022
IIST, Indore

Faculty Coordinator
Mr. Akash Deep Gupta
Mechanical Engineering
Department

Course Content	
S.No.	Topics
1	Morals, Values and Ethics
2	Integrity, Work Ethics
3	Service learning, Civic Virtue, Respect for others
4	Living Peacefully
5	Caring, Sharing & Honesty





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OBJECTIVES & OUTCOMES

Objectives:

- To create an awareness on Engineering Ethics and Human Values.
- To install Moral and Social Values and Loyalty
- To appreciate the rights of others.
- To create awareness on assessment of safety and risk

Outcomes:

- learn about morals, values & work ethics.
- learn to respect others and develop civic virtue.
- develop commitment.
- learn how to live peacefully.



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EVENT SUMMARY

An Expert Session on Human Values has been organized by Mechanical engineering department, IIST on 22/12/23 at 2.00 PM. The resource Person for the Session was Dr. Neena Thacker. The participants were undergraduate students of Mechanical Engineering Department. Total 27 students participated in the Session. Following topics were covered by Dr. Neena Thacker during the session.

Morals, Values and Ethics
Integrity, Work Ethics
Service learning, Civic Virtue, Respect for others
Living Peacefully
Caring, Sharing & Honesty

The session ended with query solving by the expert.
The vote of thanks has been given by faculty coordinator.





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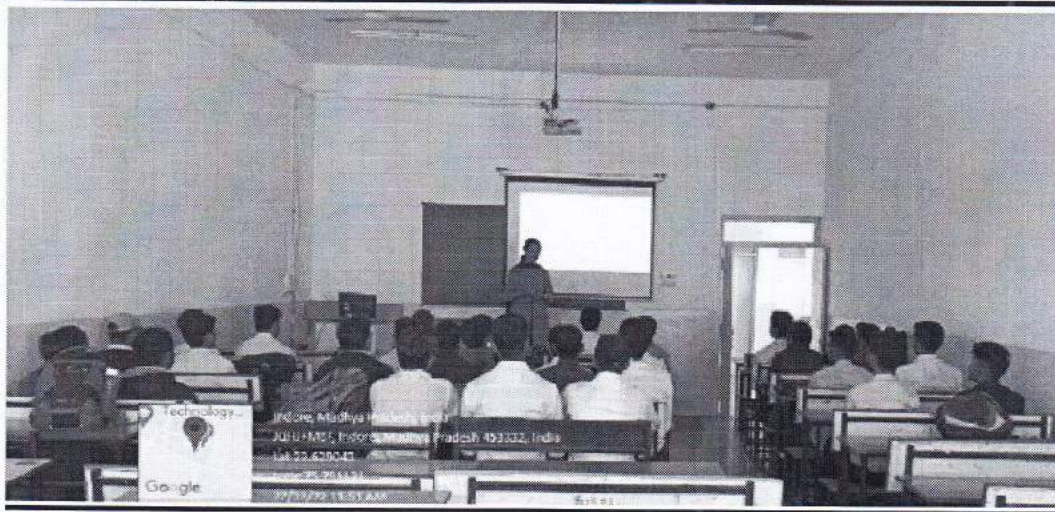
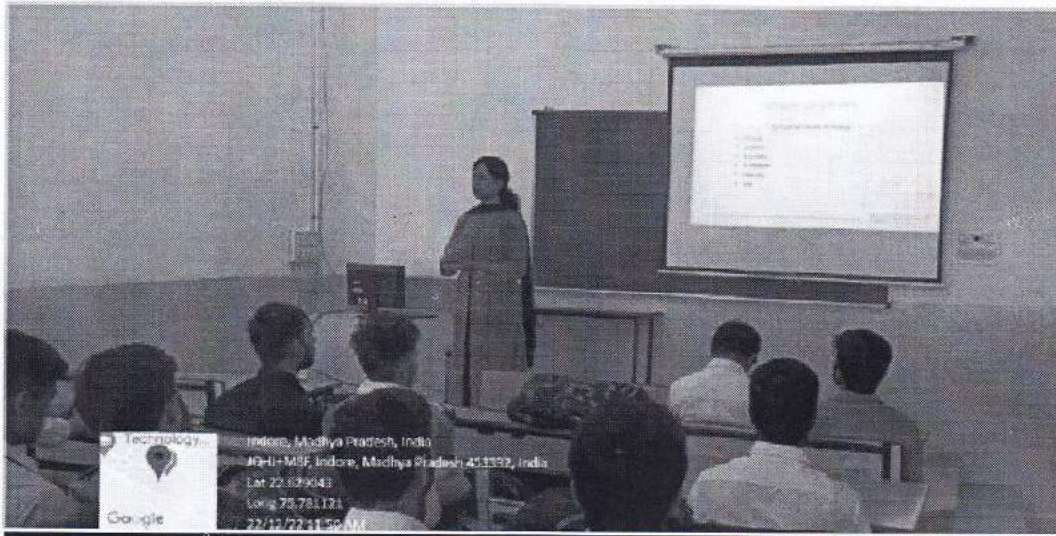
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PHOTOS



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Indore Institute of Science & Technology, Indore Department of Chemical Engineering

IIST/Circular/ 2022-2023

Dt. 11/11/2022


CIRCULAR

This is to inform you that Expert Lecture on Professional Ethics and Human Values has been organized by Chemical Engineering department, IIST Indore for students of Second year, third year & Final year.

Date: 16/11/22

Time: 9:30 AM

Venue: Seminar hall 1(A Block)


HEAD



Expert Lecture on Professional and Ethical Values


Session: 2022-2023

Objective-The key purpose of the lecture is to create an awareness on Engineering Ethics and Human Values. Furthermore, to instill Moral and Social Values and Loyalty. We also direct the student to appreciate the rights of others and create awareness on assessment of safety and risk.

Outcome-

This lecture will help students to develop

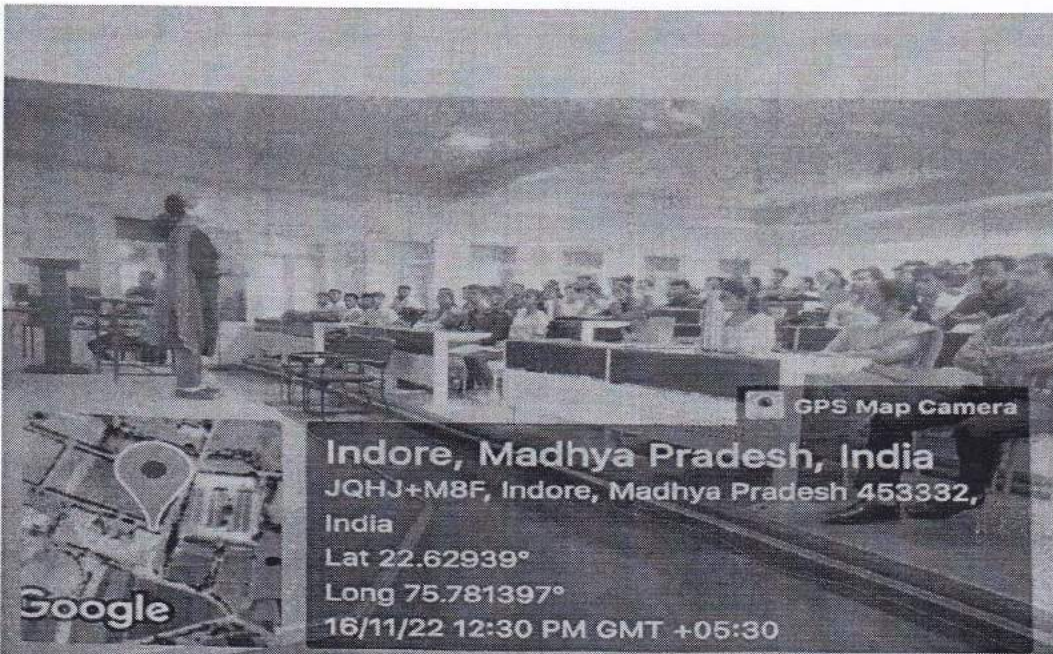
- Identify and analyze an ethical issue in the subject matter under investigation or in a relevant field
- Identify the multiple ethical interests at stake in a real-world situation or practice
- Articulate what makes a particular course of action ethically defensible
- Assess their own ethical values and the social context of problems
- Identify ethical concerns in research and intellectual contexts, including academic integrity, use and citation of sources, the objective presentation of data, and the treatment of human
- Demonstrate knowledge of ethical values in non-classroom activities, such as service learning, internships, and field work integrate, synthesize, and apply knowledge of ethical dilemmas and resolutions in academic settings, including focused and interdisciplinary research.



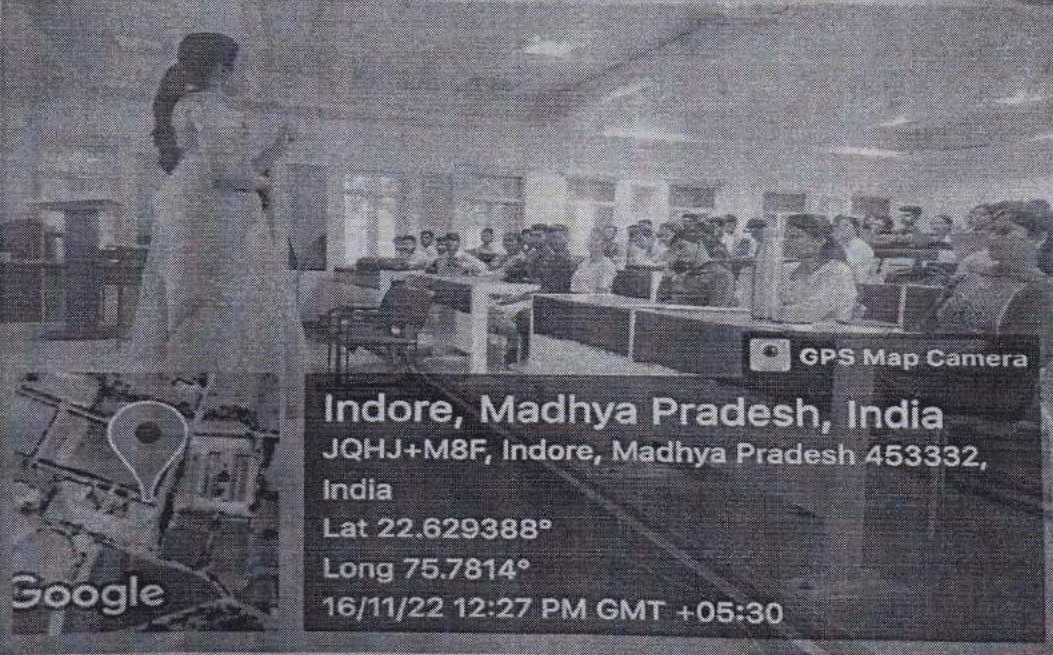


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JQHJ+M8F, Indore, Madhya Pradesh 453332,
India
Lat 22.62939°
Long 75.781397°
16/11/22 12:30 PM GMT +05:30



Indore, Madhya Pradesh, India
JQHJ+M8F, Indore, Madhya Pradesh 453332,
India
Lat 22.629388°
Long 75.7814°
16/11/22 12:27 PM GMT +05:30

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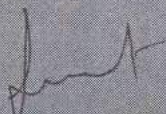
INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

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Department of Chemical Engineering Indore Institute of Science & Technology, Indore

Event Summary

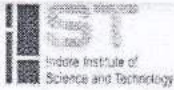
Department of Chemical Engineering of IIST Indore has successfully organized the Expert session on Professional Ethics and Human Values on 16th Nov, 2022. The esteemed expert for this session was Dr. Samatha Singh, Head, Chemical Engg. Dept. and Dr. Neena Thakkar, Assistant Professor ESH Department. The session was started with floral welcome of both the speaker by Ms. Palak Shah and Pankaj Malviya respectively. Dr. Samatha Singh explained how important are the professional ethics to work in external environment for better and ethical result. Human values also plays a very important role in everybody life for consistency and containment was elaborated by Dr. Neena Thakker. All the students deeply connected with the speakers and got benefited by the session.


Dr. Samatha Singh

Head



Expert lecture on Importance of Human Values and Professional Ethics in One's Life by Dr. R. K. Khandel



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Event Report

Academic Year: 2022-23

Session: Oct- Feb 22 (ODD)

Name of Event: 'Abhigyata Parv' 2022.

Date of Event: 17th October.

Topic: 'Importance of Human Values & Professional Ethics in One's Life'

Organizing Dept.: Engineering Science & Humanities

Event Coordinator: 1. Dr. Namrata Kaushal
2. Dr. Parimeeta Chanchani

Details of Participants:

No. of Institutes Participated	No. of participants	Department	No. of Industry Representative	Remark if any
1	256	ESH	1	Dr. R.K. Khandel

SUMMARY

INTRODUCTION

At IIST, for the students of I year Engineering expert Lecture was conducted on 17th October. The aim of the programme was to ensure that every student feels himself occupied, involved and excited to begin this new vital stage in their education. The idea was to act as an icebreaker & make the students aware of their future prospects. Main aim was to motivate them spread a feeling of well being by assuring them that their success not just lie in being an engineer but a good human being too. The Lecture was planned in the Audi-I & II.

SALIENT POINTS,

Chief Guest Dr.R.K Khandel (President R& D and Business Development of INDIAN GLYCOLS LIMITED, NAGPUR) was welcomed by Hon.DG sir. The Chief Guest addressed the student on Knowledge Skills & Attitude.



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The respective Deans, HODs, Faculties of first year were present along with the students in the session.


CONCLUSION:

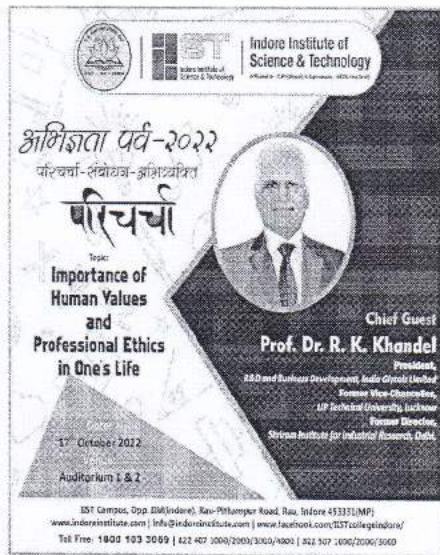
Overall Expert Lecture was conducted successfully and IIST was highly honored to have such reverential guest to guide students, where we focus on Enhancing employability quotient with Holistic development and quality assurance is our top priority and mentoring students.

Event Coordinators: 1. Dr. Namrata Kaushal
2. Dr. Parimeeta Chanchani



Principal








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EVENT FEEDBACK FORM

Name of event	Expert lecture of Dr.R.K Khandel (President R& D and Business Development of INDIAN GLYCOLS LIMITED, NAGPUR on 'Importance of Human Values & Professional Ethics in One's Life'
Date	17 th Oct.2022
Name	Ms. Navneet kaur
Branch	C.S.

- The Speaker was knowledgeable
 Strongly agree Agree Partially agree Disagree Don't know
- The expert person was/were well-prepared
 Strongly agree Agree Partially agree Disagree Don't know
- The content of the lecture was useful.
 Strongly agree Agree Partially agree Disagree Don't know
- The content relevant to the decided topic.
 Strongly agree Agree Partially agree Disagree Don't know
- The materials provided were relevant.
 Strongly agree Agree Partially agree Disagree Don't know
- The duration of the lecture was just right.
 Strongly agree Agree Partially agree Disagree Don't know
- The expert lecture has met the stated objectives fully.
 Strongly agree Agree Partially agree Disagree Don't know
- I would be interested in attending a follow-up, more
 Strongly agree Agree Partially agree Disagree Don't know
- What rating would you like to rate for the Event
 Strongly agree Agree Partially agree Disagree Don't know
- How do you benefit from attending this lecture?
 Strongly agree Agree Partially agree Disagree Don't know

THANKYOU...



Gender

Women's Grievance Redressed Cell



**Indore Institute of
Science & Technology**

IIST/June-23/03

Academic Year 2023-24

Date: 09/06/2023

The Women's' Grievance Redressal Cell

The Women's Grievance Redressal Cell for settling issues apart from sexual harassment at workplace: The following are the members of the Women's Grievance Redressal Cell:

Sr. No.	Name	Designation	Email ID	Contact No.
1.	Dr. Namrata Kaushal	Chairman	namrata.kaushal@indoreinstitute.com	9826075667
2.	Dr. Parimeeta Chanchani	Co-Chairman	parimeeta.chanchani@indoreinstitute.com	9981161212
3.	Dr. Richa Gupta	Member	richa.gupta@indoreinstitute.com	9755647074
4.	Dr. Margi Patel	Member	margi.patel@indoreinstitute.com	9713362915
5.	Dr. Neena Thacker	Member	neena.thacker@indoreinstitute.com	9826914202

The Cell is required to work in the direction of providing help to any female complaining of discrimination, either gender discrimination or otherwise, any kind of abuse, loneliness, peer pressure, groupism, home sickness, insecurity and/or inferiority complex in terms of physical appearance, hostel issues, harassment from room-mates, adjusting and adopting to the new environment, etc.

(Dr. Keshav Patidar)
Principal, IIST, Indore

CC to:

1. All Faculty and Staff,
2. Dean/HoDs,
3. Registrar Office,
4. Admin Dept.,
5. DG Office,
6. Office record.

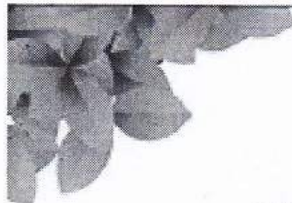




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IIST Gender Equity Policy



Indore Institute of Science & Technology

Approved by - RGPV (Bhopal) & Approved by - AICTE (New Delhi)

POLICY DOCUMENT ON GENDER EQUALITY

Gender Equality Policy

Indore Institute of Science & Technology (IIST) is committed to the promotion of gender equality and women's empowerment, where all students, academic, administrative and support staff, female and male, enjoy equal opportunities, human rights and non-discrimination in all spheres of institute life.

Policy:

IIST uphold common value system of gender equality and equity as well as women's empowerment within the core functions of the Institute, namely, teaching and learning, research and innovation, knowledge transfer and networking, while specifying strategic interventions for institutional and organizational change.

Objectives of policy:

- a) To fulfill the National commitment to gender equality.
- b) To prevent violations of National Acts that prohibit gender injustices and to work towards the empowerment of women.
- c) To create a gender sensitive environment that respects gender diversity and the inter sectionality of other marginalities.
- d) To ensure equal opportunity to all women without any discrimination.
- e) To evolve mechanisms for the prevention and redressal of gender-based violence and discrimination, including sexual harassment at the institute.

Implementing guidelines:

- 1. Gender stereotyping will be prohibited.
- 2. All forms of bias and discrimination including unconscious bias against women will not be tolerated.



Opp. IIM(Indore), Rau-Pithampur Road, Rau, Indore (MP) - 453331

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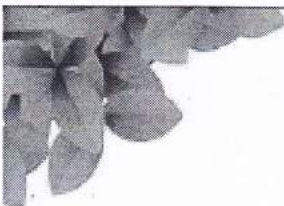
www.facebook.com/IISTIndore





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Indore Institute of Science & Technology

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3. Gender sensitivity will be employed in all recruitment, promotions and opportunity for leadership, to uphold the policy of equal representation of men and women.
4. In selection of staff for professional development opportunities and training, there will be no gender-based discrimination.
5. In formation of any Committee, the representation of women is mandatory.
6. In keeping with National policies, women specific leave will be granted.
7. No student will be denied admission on the grounds of gender.
8. In evaluating students, fair treatment of male and female students alike will be employed.
9. In organizing any event or programme, including meetings and conferences, a gender sensitive approach will be undertaken and women staff and students will be given due respect and representation.
10. Women specific infrastructure facilities will be provided on campus. In creation of new development, renovation of existing infrastructure and other resources, women specific needs will be addressed.

Principal
Indore Institute of Science
and Technology, Indore



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Women Empowerment by Dr. Brajbala Tiwari



Indore Institute of Science and Technology
Approved by AICTE, New Delhi & Affiliated to RGPV, Bhopal

Note Sheet

International Women's Day (8th March), on 11th March, 2023

Date: 01/03/2023

On International Women's Day (8th March), on 11th March, 2023, Department of ESH is organizing an expert lecture to be delivered by **Dr. Brajbala Tiwari, Life Care Hospital Pvt. Ltd Indore**. For the same following arrangements are required:

Details of requirements:

1. Auditorium 1 with all the arrangements.
2. Lamp lighting arrangements
3. Remuneration for invited speaker (Rs. 2000/-)
4. Bouquet- 1 no.
5. Memento for invited speaker
6. Vehicle for transportation – to and from Life Care Hospital, Vijay Nagar
7. High Tea for 5 persons

Coordinators

Dr. Namrata Kaushal

Dr. Parimeeta Chaudhary





Indore Institute of Science and Technology

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International Women's Day

Event Report

Academic Year: 2022-2023

Session: Jan-June 2023 (Even)

Name of Event: **International Women's Day**

Date of Event: **13th March 2023**

Topic/Theme: **Women Empowerment**

Organizing Dept.: **ESH & Women Cell IIST**

Event Coordinator: **Dr. Namrata Kaushal 2. Dr. Parimeeta Chanchani,**

Guest speaker: **Dr. Brajbala Tiwari, Lifecare Hospitals Pvt. Ltd.**

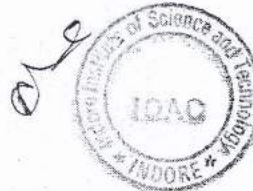
Details of Participants:

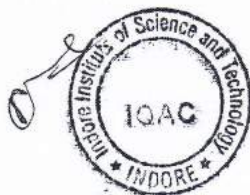
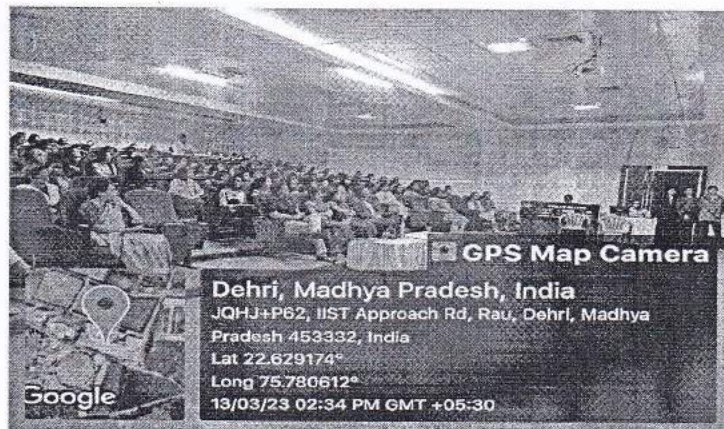
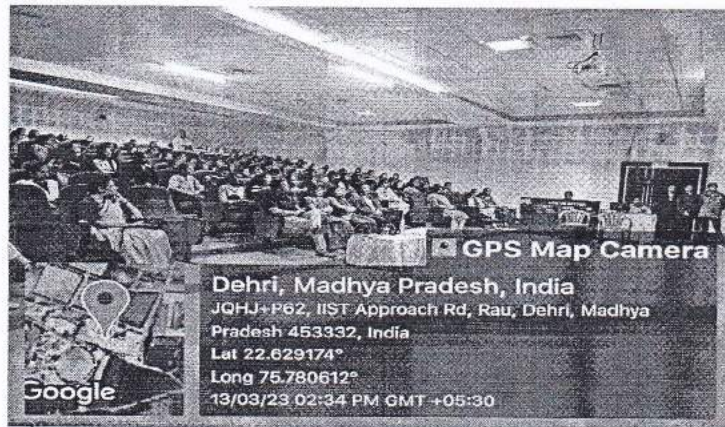
S. No	Name of Events	No. of Participants	Department
1	Expert Lecture on "Empowering Women Through Technological Advances in the field of Health Care"	120	Faculty & Staff Indore Institute of Science & Technology

Summary:

Every year International Women's Day is celebrated on 08/03/22. This year due to the festival of Holi the Expert session on the said topic is scheduled on 13/03/23. The entire focus of the program was on genetic, life style change, early sleeping, hair fall, reproductive age group and contraceptive ways and many more aspects were discussed.

Also tips of healthy healthy life style were discussed and Technology shaping the future of women's areas on infertility, IVF, cancer detection, concept of PCOS & PCOD was discussed during the session.

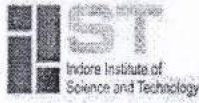







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Enclosure

Indore Institute of Science & Technology
Affiliated to RGPV (Bhopal) & Approved by AICTE (New Delhi)

Department of ESH organizing

EXPERT LECTURE

on

EMPOWERING WOMEN
through
Advances in Technology in the
Field of Health Care

Celebrating International Women's Day
8th March, 2023

Expert:

Dr. Brajbala Tiwari
MS, FICOG, FICS
Managing Director, Life Care Hospital Ltd.
President, Indore OBGY Society 22-23

Event Schedule:
Dr. Harshada Mishra (Dr. Sunil Kumar Mishra)
Date: 18th March, 2023
Time: 02:00 PM

IST Campus, Opp. BIA (Indore), Rau-Pithampur Road, Rau, Indore 453331 (MP)
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Submitted by - Ms. Jaya Singh

Asst. Prof & Language Trainer



Principal



Teej Celebration at IIST



Indore Institute of Science and Technology

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Teej Celebration Day 2022

Event Report

Academic Year: 2022-2023

Session: July-December 2022 (odd)

Name of Event: Teej celebration

Date of Event: 31 July 2022.

Event Coordinator: Mrs. Kriti Choubey and Ms. Jaya Singh

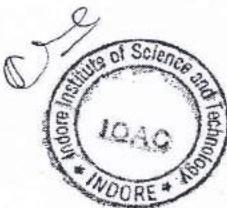
Student Coordinator: Ankita (CS 2nd year), Kajal Gyanchandani (CS 4th year)

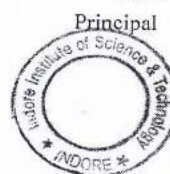
Details of Participants:

Name of Institute Participated	No. of Students Participated	Department	No. of Industry Representative	Remark if any
		IIST		
IIST	50	All the Departments	NA	NA



Event Coordinator







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Summary:

Teej festival is a yearly celebration and this year it is celebrated on the day of 31st July 2022. This festival marks the advent of monsoons or Sawan as well as to enjoy the beauty of nature of Nature Mother. It is also called the festival of swings. Teej festival is associated with Lord Shiva and Parvati. The festival of is synonymous with mehndi adorned palms, flowers, bangles, and colourfull attires worn by females. The celebration started from 10:00 am with decoration of the venue with flowers, bangles and colorful fabrics. All the female faculties, staff members and girls were invited to celebrate the event collectively. Everyone participated in various activities like dance, songs, and games. After that Gifts & sweets were distributed to all.

The festival was marked with participation of all the families residing in the campus and belongs to different regions of our country. The students & families enjoyed the program with great harmony. At the end all the participants were invited by Hon'ble DG sir to enjoy the delicious lunch.


Event Coordinator


Principal

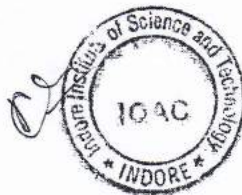
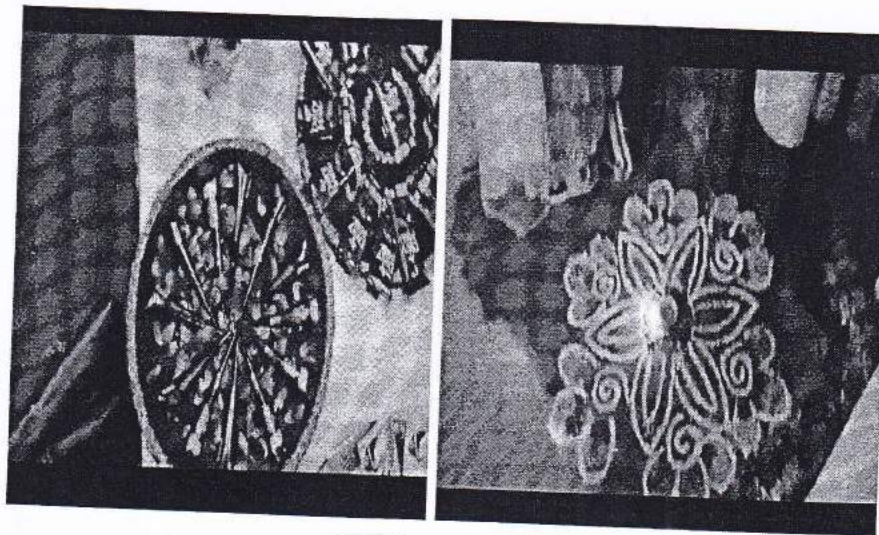
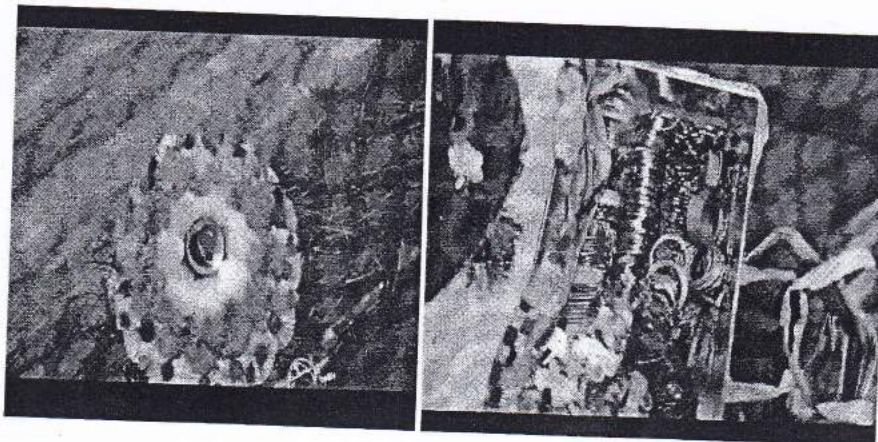




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Glimpse of Teej Celebration 2022:





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Joyal

Event Coordinator



[Signature]
Principal





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Visit to IIT Indore through Drishti CPS Foundation by IIST Girls Students



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Event Report

Academic Year -2023-2024

Session: July-Dec-2023

Name of Event: IITI DRISHTI CPS Foundation IIT Indore

Date of Event: 06/07/2023

Topic: Shakti 1.0

Organizing Dept: IT

Event Coordinator: Ms Rati Gupta

Details of Participants:

No. of Institutes Participated	No. of Students Participated	Department	No. of Industry Representative	Remark if any
		CSE/IT/AIML/IoT/ME/C MEC		
1	16	CSE/IT/AIML/IoT/ME/C MEC	NA	NA

*Please enclose a detailed list.

Also enclosed following details:

1. Approval Letter
2. Invitation card/Brochure / Leaflet (if printed by Institute or Organizing Partner) print/Social
3. Detailed summary of events. (Outcome)
4. Notice to students and faculty (Notice board notice copy, WhatsApp / Mail information copy) :
5. List of Participate and Day wise attendance



