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

Sl.No	Departments	Subject Name	Credits	Semester	No. of hours
1	Civil Engineering	Water Resource Engineering-I	4	5	36
		Environmental Engineering-I	4	5	36
		Environmental Engineering-II	4	6	48
		Energy & Environment	3	5	36
		Waste Management	3	5	36
		WaterResourceEngineering-II	4	8	32
2	Mechanical Engineering	Environmental studies	3	3	30
		Energy and Power Engineering	4	8	32
3	Electrical Engineering	Environmental studies	3	4	30
		Electrical Appliances And Luminaries	3	5	36
		Domestic /Industrial Electrical Installation, Estimation And Costing	3	5	36
		Electrical Energy Audit And Conservation	3	6	36
		Electrical Installations testing and maintenance	3	6	27
		Industrial Training & Presentation	2	7	30
		Electric Vehicle	4	7	46
		Electrical Maintenance and Electrical Energy Audit	4	8	46
4	Computer Science and Engineering	Environmental Studies	2	4	3
		Cyber Security	3	6	36
		Professional Skills	-	8	1
5	Electronics & Computer Science Engineering.	Environment Studies	3	4	1
		Industrial Automation	4	5	4
		Mobile Technology	4	6	4

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Bhadgaon,Tal.Gadhinglaj,Dist.Kolhapur

1.3.1 Curriculum Enrichment

Sl.No	Particulars	Supporting Documents
1	Professional Ethics	
2	Gender Equality	
3	Human Value	
4	Environment and Sustainability	

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Shivaji University, Kolhapur

S.Y. B. Tech in Electrical Engineering Syllabus

w.e.f. June 2019-2020

Semester III

Sr. No	Code No.	Subject	Credits
1.	BSC-EE	Engg.M-III	5
2.	PCC-EE	EEMEC	3
3.	PCC-EE	AEE	5
4.	PCC-EE	BCT	6
5.	PCC-EE	EM	5
6.	PCC-EE	C	1
		Total	25

Semester IV

Sr. No	Code No.	Subject	Credits
1.	PCC-EE	DCMT	5
2.	PCC-EE	PE	4
3.	PCC-EE	PS-I	5
4.	PCC-EE	EME	4
5.	PCC-EE	CS-I	4
6.	PCC-EE	ENV	3
		Total=	25

Semester V

Sr. No	Code No.	Subject	Credits
1.	PCC-EE301	Digital Electronics And Micro Processor	4
2.	OCE-EE301	Open Elective – I	3
3.	PCC-EE302	AC Machines	4
4.	PCC-EE303	Power System-II	4
5.	PCC-EE304	Advanced Control System	4
6.	PCC-EE305	Signals & Systems	4
7.	PCC-EE306	MATLAB	2
		Total	25

Semester VI

Sr. No	Code No.	Subject	Credits
1.	PCC-EE307	Digital Signal Processing	4
2.	OCE-EE302	Open Elective – II	3
3.	PCC-EE308	Electrical Machine Design	6
4.	PCC-EE309	Power System Stability And Control	5
5.	PCC-EE310	Electrical Drives- I	4
6.	PCC-EE311	Electrical Installations testing and maintenance	3
		Total	25

Open Elective – I (Any One)	
1	Electrical Appliances And Luminaries
2	Domestic /Industrial Electrical Installation, Estimation And Costing

Open Elective – II (Any One)	
1	Electrical Energy Audit And Conservation
2	PLC & SCADA

Semester VII

Sr. No	Code No.	Subject	Credits
1.	PCC-EE401	FACTS	03
2.	OCE-EE401	Open Elective-I	04
3.	PCC-EE402	Power Quality and Harmonics	04
4.	PCC-EE403	Computer Methods in Power Systems	04
5.	PCC-EE404	Advanced Switchgear and Protection	04
6.	PCC-EE405	Industrial Training & Presentation	02
7.	PCC-EE406	Project Phase-I	04
		Total	25

Semester VIII

Sr. No	Code No.	Subject	Credits
1.	PCC-EE407	Management & Entrepreneurship Development	03
2.	OCE-EE402	Elective II	04
3.	PCC-EE408	HVDC Systems	04
4.	PCC-EE409	EHVAC	04
5.	PCC-EE410	Electrical Generation, Utilization & Traction	04
6.	PCC-EE411	Seminar	02
7.	PCC-EE412	Project Phase-II	04
		Total	25

Open Elective – I (Any One)	
1	Smart Grid
2	Electric Vehicle
3	Integrated Resource planning
4	Restructured Power System

Open Elective – II (Any One)	
1	PLC and SCADA Application
2	VLSI Design & Embedded System
3	Electrical Maintenance and Electrical Energy Audit
4	Advanced Microcontrollers & Its applications

SEMESTER - V					
Sr. No	**Code No.**	**Course (Subject Title)**		**Semester**	**Credits**
1	PCC-CV501	WRE-I	Water Resource Engineering-I	5	4
2	PCC-CV502	DSS	Design of Steel Structures	5	5
3	PCC-CV503	EE-I	Environmental Engineering-I	5	4
4	PCC-CV504	GTE-I	Geotechnical Engineering-I	5	5
5	PCC-CV505	BPD	Building Planning and Design	5	4
6	OEC-CV506	OE-I	Open Elective-I	5	3
TOTAL					**25**

SEMESTER –VI					
Sr. No	**Code No.**	**Course (Subject Title)**		**Semester**	**Credits**
1	PCC-CV601	TOS	Theory of Structures	6	4
2	HM-CV602	EM	Engineering Management	6	5
3	PCC-CV603	EE-II	Environmental Engineering-II	6	4
4	PCC-CV604	GTE-II	Geotechnical Engineering-II	6	5
5	OEC-CV605	OE-II	Open Elective-II	6	4
6	PCC-CV606	SDD-I	Structural Design and Drawing-I	6	2
7	MC-CV607		SEMINAR	6	1
8	*SI-CV707	FT	Field Training	-	-
TOTAL					**25**

FINAL YEAR COMPUTER SCIENCE AND ENGINEERING - CBCS PATTERN

SEMESTER - VIII

Sr. No.	Course Subject / Title	TEACHING SCHEME							EXAMINATION SCHEME							
		THEORY			TUTORIAL		PRACTICAL		THEORY				ORAL / PRACTICAL		TERMWORK	
		Credits	No. Of Lectures	No. of Hours	Credits	No. of Hours	Credits	No. of Hours	mode	marks	Total Marks	MIN.	MAX	MIN.	MAX	MIN.
1	PCC- CS801 Big Data Analytics	4	4	4			1	2	CIE	30	100	40	50	20	25	10
									ESE	70						
2	PCC- CS802 Deep Learning	3	3	3	1	1			CIE	30	100	40			25	10
									ESE	70						
3	PCE- CS803 Elective-II	3	3	3	1	1			CIE	30	100	40			25	10
									ESE	70						
4	PCE- CS804 Elective-III	3	3	3	1	1			CIE	30	100	40			25	10
									ESE	70						
5	PCC- CS805 Mobile Application Development	3	3	3			2	4					50	20	50	20
6	PW- CS806 Project – II						2	4					50	20	50	20
7	HM-CS807 Professional Skills				1	1									50	20
	Total (SEM –VIII)	*16*	*16*	*16*	*4*	*4*	*5*	*10*			*400*		*150*		*250*	
	Total	**32**	**32**	**32**	**6**	**6**	**12**	**22**			**800**		**300**		**500**	

CIE- Continuous Internal Evaluation

ESE – End Semester Examination

THIRD YEAR COMPUTER SCIENCE AND ENGINEERING - CBCS PATTERN

SEMESTER - VI

Sr. No.	Course Subject / Title	TEACHING SCHEME							EXAMINATION SCHEME							
		THEORY			TUTORIAL		PRACTICAL		THEORY				ORAL / PRACTICAL		TERMWORK	
		Credits	No. Of Lectures	No. of Hours	Credits	No. of Hours	Credits	No. of Hours	mode	marks	Total Marks	MIN.	MAX	MIN.	MAX	MIN.
1	**PCC-CS601** Compiler Construction	3	3	3			1	2	CIE	30	100	40			25	10
									ESE	70						
2	**PCC- CS602** Operating System-II	4	4	4			1	2	CIE	30	100	40			25	10
									ESE	70						
3	**PCC- CS603** Database Engineering	4	4	4			1	2	CIE	30	100	40	50	20	25	10
									ESE	70						
4	**PCC- CS604** Machine Learning	3	3	3	1	1			CIE	30	100	40			25	10
									ESE	70						
5	**OEC- CS605** E-Commerce & Digital Marketing **OEC - CS606** ii) Cyber Security	3	3	3					CIE	30	100	40				
									ESE	70						
6	**PCC- CS607** C# Programming	2	2	2			1	2					50	20	25	10
7	**PW- CS608** Domain Specific Mini Project						1	2					50	20	25	10
	Total (SEM –VI)	***19***	***19***	***19***	***1***	***1***	***5***	***10***			***500***		***150***		***150***	
	Total (SEM - V+ SEM - VI)	**38**	**38**	**38**	**3**	**4**	**9**	**18**			**1000**		**250**		**350**	

CIE- Continuous Internal Evaluation

ESE – End Semester Examination

Third Year B.Tech. (Civil) Semester -V

Water Resources Engineering – I

Course	Teaching Scheme				Evaluation Scheme				
	L	T	P	Credit	Scheme	Theory (Marks)		Practical(Marks)	
						Max.	Min. for passing	Max.	Min. for passing
WRE - I (PCC-CV501)	03	--	02	04	ISE	--	--	50	20
					CIE	30	12	--	--
					ESE	70	28	25	10

ISE: In Semester Evaluation CIE: Continuous Internal Evaluation ESE: End Semester Examination

Course Objectives:

1. To impart the basic knowledge of importance of Hydrology & irrigation in water resources development.
2. To know various hydrometeorological parameters and their estimation.
3. To create awareness about floods, their estimation using various methods.
4. To understand the importance of irrigation in Indian agricultural industry considering cropping patterns.
5. To understand the principles of watershed management and water harvesting.

Course Outcomes:

After successful completion of this course students will be able to:

1. Apply the knowledge of estimation of hydrometeorological parameters.
2. Estimate direct runoff and peak discharge using hydrograph technique.
3. Apply different methods of efficient irrigation and water conservation.
4. Determine reservoir capacity based on crop water requirement.

SECTION I

Unit 1:Hydrology and Precipitation **6hrs**

1.1 *Introduction of Hydrology:*Definition, Importance and scope of hydrology, Hydrologic cycle.

1.2 *Precipitation:*Forms and types of precipitation, Methods of measurement, Rain-gauge Network, Determination of average precipitation over the catchment & its numerical, Estimation of missing rainfall data,Graphical representation of rainfall - Mass rainfall curves, Double mass rainfall curve, Rainfall hyetograph.

Unit 2: Evaporation and Runoff **6hrs**

2.1 *Evaporation:* Process, Factors affecting, Measurement and control of evaporation.

2.2 *Evaporation Transpiration:* Process, factors affecting, Measurement.

2.3 *Infiltration:* Process, Factors affecting and measurement of infiltration, Infiltration indices & its numerical.

2.4 *Runoff:* Classification, Factors affecting runoff, Determination of runoff-empirical equations, Rainfall runoff co-relation.

Unit 3: Hydrograph and Floods **6hrs**

3.1 *Hydrograph:* Components of Storm hydrograph, Base flow and Separation of base flow, Direct runoff hydrograph, Unit hydrograph – theory, assumptions and limitations.

Derivation and use of unit hydrograph, Conversion of UH of different durations using Principle of Superposition & S-curve hydrograph.

3.2 *Floods:*Introduction of river gauging, Estimation of peak flow- empirical equations, rational method; Importance of -Design flood, Standard project flood, Maximum probable flood.

SECTION II

Unit 4: Ground Water Hydrology **6hrs**

4.1 *Ground Water Hydrology:* Occurrence, Distribution and classification of ground water, Darcy's law, Aquifer parameters - Permeability, Specific yield, Specific retention, Porosity, Storage coefficient, Transmissibility.

4.2 *Hydraulics of Well:* Under steady flow conditions in confined and unconfined aquifers.

4.3 *Construction:* Tube wells and open wells. (Construction features only)

Unit 5: Irrigation and Minor Irrigation Works **6hrs**

5.1 *Introduction to Irrigation:* Definition and necessity of irrigation, ill-effects of irrigation, Systems of irrigation- Surface, Sub-surface (Drip irrigation), Sprinkler irrigation; Water logging and land drainage, Assessment of irrigation water.

5.2 *Minor Irrigation Works:* General layout, main components and functioning of –
1. Percolation tanks 2. K. T. Weir, 3. Bandhara irrigation 4. Lift irrigation

Unit 6: Water Requirements of Crops **6hrs**

6.1 *Water Requirement of Crops:* Principal crops and crop seasons, cropping pattern and crop rotation, Classes and availability of soil water, depth and frequency of watering, Duty, delta, base period and their relationship, factors affecting duty, methods of improving duty, Numerical on command area calculations and reservoir capacity based on crop water requirement.

Term Work:

Assignments on the following topics

1. Determination of average annual rainfall using Thiessens polygon &Isohyetal map method.
2. Consistency of rain gauge station by double mass rainfall curves.
3. Determination of evaporation losses, effective rainfall hyetograph infiltration losses – Phi index calculation, Horton's infiltration curve.
4. To develop a unit hydrograph from a total runoff hydrograph resulting from isolated storms.
5. Alteration of base period of given unit hydrograph using method of superposition and S-curve technique.
6. Determination of well discharge in a confined/unconfined aquifer.
7. Layout of Percolation tank, K. T. Weir, Bandhara Irrigation, Lift Irrigation.
8. Estimating depth and frequency of irrigation on the basis on soil moisture regime concept.
9. Crop water requirement and irrigation command area calculations.
10. A brief report on introduction to GIS software in Water Resource Engineering.
11. Site visit & report on meteorological station.

Text Books:

1. "Irrigation Engineering" – S. K. Garg – Khanna Publishers, Delhi.
2. "Water Resources & Irrigation Engineering" – Dr. K. R. Arora, Standard Publisher.
3. "Irrigation, Water Resources and Water Power Engineering" – Dr P.N. Modi, Standard Book House.
4. "Irrigation and Water Power Engineering" – Dr. Punmia and Dr. Pande – Laxmi Publications, Delhi

5. "Engineering Hydrology" – Dr. K. Subramanya, -Tata McGraw Hill, New Delhi.
6. "Hydrology" – Dr. P. Jayarami Reddy, Laxmi Publications, New Delhi
7. "Engineering Hydrology" – Dr. Raghunath H.M. - New Age International Publishers.
8. "Watershed Management in India" – J. V. S. Murthy – Wiley Eastern Publications, Delhi.
9. "Irrrigation Engineering" – Dahigaonkar, Asian Book Pvt Ltd.
10. "Irrigation Engineering" – S. R. Sahastrabudhe, Katson Publishers.

Reference Books:

1. "Hydrology and water resources"- R.K.Sharma, Dhanpatrai and sons, New Delhi.
2. "Theory and design of irrigation structures" - Varshney, Gupta and Gupta, vol. I and II and III, New Chand and Brothers.
3. "Irrigation Theory and practice" - Michael, Vikas Publications House.
4. "Water management" - Jaspal Sing, M.S.Acharya, Arun Sharma, Himanshu Publications.
5. "Design of M.I. and Canal Structure" -Satyanarayan and R. Murthy, Wiley Eastern Ltd, New Delhi.
6. "Irrigation Engineering" - Raghunath, Wiley Eastern Ltd, New Delhi.

Guidelines Regarding Question Paper Setting:

1. Q.No. 4 and Q.No. 8 are compulsory and it should be based on all units of respective sections.
2. Attempt any two questions from Q. No. 1, 2, 3 and any two questions from Q. No. 5, 6, 7.

End Semester Examination Paper Pattern

Question No.	Based on Unit No.	Marks
1.	1	10
2.	2	10
3.	3	10
4.	1,2 & 3 (Compulsory)	15
5.	4	10
6.	5	10
7.	6	10
8.	4,5 & 6 (Compulsory)	15

Third Year B.Tech. (Civil) Semester - V

Environmental Engineering – I

Course	Teaching Scheme				Evaluation Scheme				
	L	T	P	Credit	Scheme	Theory (Marks)		Practical(Marks)	
						Max.	Min. for passing	Max.	Min. for passing
EE-I (PCC-CV503)	03	--	02	04	ISE	--	--	25	10
					CIE	30	12	--	--
					ESE	70	28	--	--

ISE: In Semester Evaluation CIE: Continuous Internal Evaluation ESE: End Semester Examination

Course Objectives:

1. To understand various sources of water with respect to quality and quantity of water.
2. To describe and design the various water treatment units.
3. To learn the special water treatments and sequencing of treatment for various qualities of surface & ground water.
4. To design the various components related to transmission and distribution of water.
5. To understand various water supply appurtenances.

Course Outcomes:

After successful completion of this course students will be able to:

1. Describe the various sources of water with respect to quality and quantity of water.
2. Design the various water treatment units.
3. Illustrate the special water treatments and sequencing of treatment for various qualities of surface & ground water.
4. Describe the various components related to transmission and design of distribution of water.
5. Summarize the different water supply appurtenances.

SECTION I

Unit 1:Introduction to Water Supply Scheme **6hrs**

1.1 *Introduction to Water Supply Scheme:*Data collection for water supply scheme, Components and layout, Design period, Factors affecting design period.

1.2 *Quantity:*Rate of water consumption for various purposes like domestic, industrial, institutional, commercial;Fire demand and water system losses, Factors affecting rate of demand, Population forecasting.

1.3 *Quality:* Water quality parameters, Characteristics & significance in water treatment, Drinking water quality standards- BIS, WHO Standards.

1.4 *Water Intake Structures:*General design considerations, Types such as river intake, canal intake and reservoir intake, Concept of rising main and pumping station.

Unit 2:Water Treatment **6hrs**

2.1 *Water Treatment:*Principles of water treatment processes. Introduction to different types of water treatment flow sheets.

2.2 *Aeration:*Principle and concept, Necessity, Methods, Design of cascade aerator.

2.3 *Coagulation & Flocculation:*Theory, Factors affecting, Destabilization of colloidal particles, Types of dosing of coagulants, Selection of coagulants, Jar tests, Design of rapid mixer & flocculator, Theory of clariflocculator.

2.4 *Sedimentation:*Theory, Types of settling, Types of sedimentation tanks, Principles & design, Concept of tube & plate settler.

Unit 3: Water Treatment **6hrs**

3.1 *Filtration:*Mechanism, Head loss development, Negative head loss, Types of filters- slow sand filter, rapid sand filter &pressure filter, Operation & design of slow sand & rapid sand filter.

3.2 *Disinfection:*Theory, Factors affecting disinfection, Types of disinfectants, Types and methods of chlorination break point chlorination

3.3 *Water Softening Processes:*Lime-soda process, Ion exchange

3.4 *Demineralization:*Reverse osmosis, Electro-dialysis

SECTION II

Unit 4: Distribution Reservoirs andService Storages **6hrs**

4.1 Necessity, Location, Head requirement, Capacity determination by analytical & graphical method.

4.2 Transmission of water, Pumping & gravity mains, Choice of pipe materials, Forces acting on pressure pipes, Leakage & pressure testing of pipes, Corrosion types & control measures, Thrust block concept,

Unit 5:Water Distribution Systems **6hrs**

5.1 Method of distributing water, Layout pattern, Basic system requirements for water distribution system

5.2 *Methods of Network Analysis:*Equivalent pipe method, Hardy-Cross method, Design problem.

Unit 6: Water Supply Appurtenances **6hrs**

6.1 *Types of Valve:*Sluice valve, Air relief valve, Gate valve, Non-return valve, Scour valve

6.2 Fire hydrants water meter, Service connections, Maintenance & leak detection of water distribution system.

6.3 Necessity of water audit, Water audit in domestic sector, Concept of preparation of DPR.

Term Work:

A. Analysis of any 10 of the following test parameters for water
   1. pH
   2. Acidity
   3. Alkalinity
   4. Chlorides content
   5. Hardness – Total, temporary and permanent
   6. Turbidity
   7. Residual Chlorine
   8. Total dissolved solids through measurement of electrical conductivity
   9. Dissolved Oxygen
   10. Most Probable Number
   11. Optimum dose of alum by jar test.

12. Fluorides & Nitrogen
13. Iron and Manganese

B. Design/analysis problems on water treatment unit & distribution system.
C. Visit to a water treatment plant &visit report.

Text Books:

1. "Environmental Engineering"- Peavey, H.S.Rowe, D.R. and Tchobanoglous McGraw Hill Book Company.
2. "Water Supply and Pollution Control"- Viessman W.and Hammer M.J. Harper Collins College Publishers.
3. "Water and Waste Water Technology"- Hammer M.J. Prentice-Hall of India Private Ltd.
4. "Water and Wastewater Technology"- G.S. Birdie and J.S. Birdie
5. "Water Supply"- Duggal K.N.S. Chand and Company.
6. "Water Supply"- Garg S.K., Khanna Publishers.
7. "Water Supply and Waste water Disposal"- Fair and Gayes, John Wiley Publication.
8. "Water Supply Engineering" -B.C.Punmia,AshokJain,Arun Jain, Laxmi Publications

Reference Books:

1. Manual on Water Supply and Treatment- Government of India Publication, 1993
2. "Water and Waste Water Engineering" - Fair G. M, Geyer J. C, and Okun D. A, Vol. I & II", John Wiley Publication, 1966.
3. "Water and Waste Water Technology", Prentice Hall of India Private Limited, 1996.Hammer Structure of question paper for End Semester Evaluation

Guidelines Regarding Question Paper Setting:

1. Section I - Q. No. 1 to 3 and Section II - Q. No. 4 to 6
2. All questions are compulsory.
3. Internal optional questionsare allowed, weightage of optional question should not be more than 30% of total marks i.e. 21 marks out of 70 marks.

End Semester Examination Paper Pattern

Question No.	Based on Unit No.	Marks
1	1	12
2	2	12
3	3	11
4	4	12
5	5	12
6	6	11

Third Year B.Tech. (Civil) Semester - VI

Open Elective-II (Soil and Water Conservation Techniques)

(Offered by Faculty of Civil Engineering to All Faculties)

Course	Teaching Scheme				Evaluation Scheme				
						Theory (Marks)		Practical (Marks)	
	L	T	P	Credit	Scheme	Max.	Min. for passing	Max.	Min. for passing
OE - II (OEC-CV605)	03	--	--	03	ISE	--	--	--	--
					CIE	30	12	--	--
					ESE	70	28	--	--

ISE: In Semester Evaluation CIE: Continuous Internal Evaluation ESE: End Semester Examination

Course Objectives:

1. To understand the concept of soil and water conservation.
2. To apply the knowledge of conservation for societal benefit.
3. To evaluate the specific needs of soil and water conservation in given area.

Course Outcomes:

After successful completion of this course students will be able to:

1. Understand methods of soil and water conservation.
2. Develop an integrated model for sustainable natural conservation.
3. Explain the groundwater exploration techniques and its artificial recharge.
4. Analyze the needs for protection of banks and preservation of soil.

SECTION I

Unit 1: Introduction **4 hrs**

1.1 Conce pt of soil erosion and water conservation

1.2 Princip les of Soil Erosion – Causes, Types, Agents, Factors affecting, Mechanics of soil erosion.

Unit 2: Soil Conservation Methods **9 hrs**

2.1 Introduction, Erosion due to water,

2.2 Terraces for water erosion control-Terraces and their design, Bench terracing, Types of bench terraces, Alignment of bench terraces,

2.3 Bunding Methods- Measures for water erosion control, Bunds (contour bunds, graded bunds), Construction of bunds

2.4 Gully Erosion - Classification of Gullies, Principles of Gully Control, Gully Control Measures;

2.5 Mainte nance of Bench Terraces, bunding and gully.

Unit 3: Stream Bank Erosion and Protection **5 hrs**

3.1 Introduction - Susceptible area to stream bank erosion, Process of stream bank erosion, Bank scour, Mass failure

3.2 Impacts of stream bank erosion - Causes of stream bank erosion, Control measures for stream bank erosion

3.3 Objectives and methods of river training works.

SECTION II

Unit 4: Water Harvesting Structures **5 hrs**

4.1 Import ance of water harvesting, Types of water harvesting

4.2 Water harvesting technique, Runoff vs. flood water harvesting

4.3 Perfor mance of WHS - Check dams, Nala bund, MI tank, Percolation tank

Unit 5: Modeling of Watershed Process **5 hrs**

5.1 Watershed model and modeling, Benefits of watershed modeling, Watershed models

5.2 Case study – Watershed, Modelling for soil and water conservation.

Unit 6: Groundwater Conservation **8 hrs**

6.1 Introduction, Sources of ground water, Porosity and permeability, Types of aquifers, Zones of ground water

6.2 Ground water regulations, Ground water conservation techniques, Artificial recharge systems, Causes, effects and solutions of ground water depletion.

NOTE: One assignment on each unit.

Text Books:

1. "Soil and Water Conservation Engineering" - Dr. R. Suresh, Standard Publications

2. "Hydrology and Soil Conservation Engineering including Watershed Management" - Ghanshyam Das, PHI
3. "Watershed Management" - GVS Murthy, New Age international Publication.

Reference Books:

1. "Principles of Soil Conservation and Management" - Hamberto Blanco and Rattan Lal, Springer
2. "Manual of Soil and Water Conservation Practices" -Gurmal Singh, C. Venkatraman, G. Sastry, B. P. Singh
3. "Soil Erosion Research Methods" - R. Lal, Lib. of CongreeCatloing in Publication Data.
4. "Soil and Water Conservation in Semiarid Area" - Norman W. Handsom, United Book Prints
5. "Groundwater Hydrology" - D.K. Todd, Wiley Publication

Guidelines Regarding Question Paper Setting:

1. Section I - Q. No. 1 to 3 and Section II - Q. No. 4 to 6
2. All questions are compulsory.
3. Internal optional questions are allowed, weightage of optional question should not be more than 30% of total marks i.e. 21 marks out of 70 marks.

End Semester Examination Paper Pattern

Question No.	Based on Unit No.	Marks
1	1	12
2	2	12
3	3	11
4	4	12
5	5	12
6	6	11

Third Year B.Tech. (Civil) Semester - VI

Open Elective-II (Disaster Risk Management)

(Offered by Faculty of Civil Engineering to All Faculties)

Course	Teaching Scheme				Evaluation Scheme				
	L	T	P	Credit	Scheme	Theory (Marks)		Practical (Marks)	
						Max.	Min. for passing	Max.	Min. for passing
OE - II (OEC-CV605)	03	--	--	03	ISE	--	--	--	--
					CIE	30	12	--	--
					ESE	70	28	--	--

ISE: In Semester Evaluation CIE: Continuous Internal Evaluation ESE: End Semester Examination

Course Objectives:

1. To provide basic conceptual understanding of disasters and its relationships with development.

2. To gain understand approaches of disaster preparedness, response and recovery.
3. To enhance awareness of Disaster Risk Management institutional processes in India
4. To build skills to respond to disasters.

Course Outcomes:

After successful completion of this course students will be able to:

1. Gain the ability to understand and categories the disaster.
2. Apply preparedness plans for disaster response.
3. Setting up of early warning systems for risk reductions
4. Application of Sphere Standards Indian context

SECTION I

Unit 1: Introduction **5 hrs**

1.1 Concepts and definitions: Disaster, Hazard
1.2 Vulnerability, Risks severity, Frequency and details, Capacity, Impact
1.3 Prevention, Mitigation

Unit 2: Types of Disaster **6 hrs**

2.1 *Natural Disasters:* Floods, Draught, Cyclones, Volcanoes, Earthquakes, Tsunami, Landslides, Thunder storms, Forest fires, Avalanches.
2.2 *Manmade Disasters:* Industrial pollution, Artificial flooding in urban areas, Nuclear radiation, Chemical and biological spills, Transportation accidents (air, sea, rail and road), Terrorist strikes

Unit 3:Disaster Impacts **7 hrs**

3.1 Environmental, Physical, Social, Ecological, Economic, Political
3.2 Health, Psycho-social issues
3.3 Demographic aspects (gender, age, special needs)
3.4 Global and national disaster trends
3.5 Climat
e change and urban disasters.

SECTION II

Unit 4:Disaster Risk Reduction (DRR) **6 hrs**

4.1 *Pre-Disaster:*Risk assessment and analysis, Risk mapping, Zonation and micro zonation, Prevention, Mitigation, Early warning systems, Preparedness,Capacity assessment, Structural and non-structural measures
4.2 *During-Disaster:*Evacuation, Disaster communication, Search and rescue, Emergency operation centre, Incident command system, Relief and rehabilitation.
4.3 *Post-Disaster:*Damage and needs assessment, Restoration of critical infrastructure, Early recovery, Environmental response (water, sanitation, food safety, waste management), Disease control, Security, Communications

Unit 5:Disasters, Environment and Development **6 hrs**

5.1 Factors affecting vulnerability such as impact of developmental projects and environmental modifications (including of dams, land use changes, urbanization)
5.2 Sustainable and environmentally friendly recovery
5.3 Reconstruction and development methods

Unit 6: Disaster Management in India **6 hrs**

6.1 Disaster Profile of India – Mega Disasters of India and Lessons Learnt Disaster Management Act 2005

6.2 Roles and responsibilities of government, Community, Local institutions, NGOs and other stakeholders

6.3 Policies and legislation for disaster risk reduction, DRR programmes in India and the activities of National Disaster Management Authority

6.4 Applications of Science and Technology -Geo-informatics in Disaster Management (RS, GIS, GPS and RS)

NOTE: One assignment on each unit.

Text Books:

1. "Disaster Risk Reduction in South Asia" - Pradeep Sahni, Prentice Hall.
2. "Disaster Management" - Ghosh G.K., APH Publishing Corporation
3. "Manual on natural disaster management in India" - M C Gupta, NIDM, New Delhi
4. "An overview on natural & man-made disasters and their reduction" - R K Bhandani, CSIR, New Delhi
5. "Disasters in India Studies of grim reality" - Anu Kapur, Rawat Publishers, Jaipur
6. "Management of Natural Disasters in developing countries" - H.N. Srivastava and G.D. Gupta, Daya Publishers, Delhi
7. "Disaster Management Act 2005", Publisher by Govt. of India
8. "National Disaster Management Policy, 2009", GoI
9. "Space Technology for Disaster management: A Remote Sensing & GIS Perspective" - P.S. Roy, Institute of Remote Sensing (NRSA) Dehradun.
10. "Natural Disaster" - R.K. Sharma and G. Sharma, APH Publishing Corporation, New Delhi.
11. "Disaster Management in the Hills" - Satendra Singh, Concept Publishing Company, New Delhi.
12. "Disaster Management through Panchayati Raj" - K Taori, Concept Publishing Company, New Delhi

Reference Books:

1. "Handbook of Disaster Management: Techniques & Guidelines" - B. K. Singh, Rajat Publication.
2. http://ndma.gov.in/ (Home page of National Disaster Management Authority)
3. http://www.ndmindia.nic.in/ (National Disaster management in India, Ministry of Home Affairs).
4. "Disaster Medical Systems Guidelines". Emergency Medical Services Authority, State of California, EMSA no.214, June 2003
5. "IASC Guidelines on Mental Health and Psychosocial Support in Emergency Settings", Inter-Agency Standing Committee (IASC), Feb. 2007, Geneva
6. "World Disasters Report, 2009", International Federation of Red Cross and Red Crescent, Switzerland

S. Y. B. Tech (Computer Science and Engineering) Sem – III

7. SOFT SKILLS (HM-CS307)

TEACHING SCHEME	EXAMINATION SCHEME
Theory : ---	**Theory** :---
Tutorial : ---	**Term work:** 25 Marks
Practical: 2 Hrs. / Week	**Practical** : 25Marks
Credits:- 1	

Prerequisite: English language

Course Objectives:

1. To make the engineering students aware of the importance, the role and the content of soft skills through instruction, knowledge acquisition, demonstration andpractice.
2. To develop and nurture the soft skills of the students through individual andgroup activities.
3. To expose students to right attitudinal and behavioral aspects and to build the same throughactivities
4. To encourage the all round development of students by focusing on softskills.

Course Outcomes:

Upon successful completion of this course, the student will be able to –

1. Effectively communicate through verbal/oral communication and improve thelistening skills
2. Actively participate in group discussion / meetings / interviews and prepare &deliver presentations.
3. Function effectively in multi-disciplinary and heterogeneous teams through the knowledge ofteam work, Inter-personal relationships, conflict management and leadershipquality.

Contents

Unit No	
1	**Understanding Communication Skills:** Verbal Communication - Effective Communication - Active listening – Articulation Paraphrasing – Feedback Non- Verbal Communication- Body Language of self and others
2	**Behavioral Skills /Self Development:** SWOT Analysis, Confidence improvement, values, positive attitude, positive thinking and self esteem.
3	**Leadership and Team Building** Culture and Leadership- Salient Features of Corporate Culture, Leadership Styles.Leadership Trends,Team Building- Team Development Stages, Types of Teams, Attributes of a successful team – Barriers involved
4	**Developing Writing skills** E-mail writing, report writing, resumes writing, practice.

Stress and Time Management

5 Stress in Today's Time- Identify the Stress Source, Signs of Stress, Ways to Cope with Stress.Healthier Ways to Combat Stress, Steps to be taken in the Organizations: Open communication, Time Management, Working towards Your Goals, Smart Work, Prioritize yourTasks

Professional Skill

6 Ethics, Etiquette and Mannerism-All types of Etiquette (at Meetings, Etiquette at Dining. Involuntary Awkward Actions, Public Relations Office(PRO)'s Etiquettes) Technology Etiquette: Phone Etiquette, Email Etiquette, Social Media Etiquette, Video Conferencing Etiquette, InterviewEtiquette.
Dressing Etiquettes: for Interview, offices and social functions.
Ethical Values: Importance of Work Ethics, Problems in the Absence of Work Ethics.

TERM WORK:

1. The instructor shows videos to enhance skills supporting career aspects and discussion about same videos. Multiple set of observations based on videos can be prepared by students.
2. Multiple set of activity based assignments can be prepared to allow multiple skills exposurefor example a group task encouraging discussions, team building,value sharing, leadership and role play all at the same time. Every student must be given adequate opportunity to participate actively in each activity.
3. Each student will write one report based on visit / project / business proposaletc.
4. Faculty may arrange one or more sessions from following: Yoga and Meditation. Stress management, relaxation exercises, and fitness exercises. Time management and personal planningsessions.
5. The student must prepare the journal in the form of report elaborating the activities performed in the lab. Continuous assessment of laboratory work is to be done based on overall performance and lab assignments performance of student. Each lab assignment assessment will assign grade/marks based on parameters with appropriate weightage. Suggested parameters for overall assessment as well as each lab assignment assessment include- timely completion, performance, punctuality, neatness, enthusiasm, participation and contribution in various activities-SWOT analysis, presentations, team activity, event management, group discussion, Group exercises and interpersonal skills and similar otheractivities/assignments.

TEXT BOOKS:

1. Developing Communication Skills by Krishna Mohan and MeeraBanerji;MacMillan India Ltd., Delhi
2. Gajendra Singh Chauhan, Sangeeta Sharma: Soft Skills – An Integrated Approach to Maximize Personality, WILEY INDIA, ISBN:13:9788126556397
3. Essentials of Effective Communication, Ludlow and Panthon; Prentice Hall ofIndia.

REFERENCE BOOKS:

1. Indrajit Bhattacharya, —An Approach to Communication Skills‖, Delhi, Dhanpat Rai,2008.
2. Seven Spiritual Laws of Success - DeepakChopra
3.Simon Sweeney, —English for Business Communicationl, Cambridge University Press, ISBN13:978-0521754507.

T. Y. B. Tech (Computer Science and Engineering) Sem – VI

5. Open Elective Course - II (OEC - CS606)

Cyber Security (OEC - CS606)

TEACHING SCHEME	EXAMINATION SCHEME
Theory : 3 Hrs./Week	**Theory** : ESE 70 Marks CIE 30 Marks
Tutorial : -----	**Term work** : -----
Practical : -----	**Practical** : -----

Prerequisite: Fundamental knowledge of Data Communication, Networking and Information Security.

Course Objectives:

1. To gain knowledge about securing both clean and corrupted systems, protect personal data, and secure computer networks
2. To examine secure software development practice
3. To understand key terms and concepts in I.T. ACT
4. To incorporate approaches for incident analysis and response

Course Outcomes:

On completion of the course, student will be able to

1. Explain the cyber security concepts.
2. Describe the cyber security vulnerabilities and prevention techniques.
3. Explain the different rules and regulations under I.T. ACT.
4. Explain the concepts of digital forensics & incident management

UNIT NO.	UNIT NAME & DETAILS	NO. OF LECTURES
1.	**Computer and Network Security** Introduction to Computer Security - Introduction, How Seriously Should You Take Threats to Network Security?, Identifying Types of Threats, Basic Security Terminology, Concepts and Approaches, Online Security Resources Networks and the Internet : Introduction, Network Basics, How the Internet Works, Basic Network Utilities , Advanced Network Communications Topics	06
2.	**Cyber Frauds, DoS, Viruses:** Cyber Stalking, Fraud, and Abuse: Introduction, How Internet Fraud Works, Identity Theft, Cyber Stalking, Protecting Yourself	06

	Against Cyber Crime. Denial of Service Attacks: Introduction, DoS, Illustrating an Attack, Malware: Introduction, Viruses, Trojan Horses, The Buffer-Overflow Attack. The Sassier Virus/Buffer Overflow, Spyware, Other Forms of Malware, Detecting and Eliminating Viruses and Spyware	
3.	**Techniques Used by Hackers :** Introduction, Basic Terminology, The Reconnaissance Phase, Actual Attacks, Malware Creation, Penetration Testing	06
4.	**Computer Security Technology:** Introduction, Virus Scanners, Firewalls, Antispyware, IDS, Digital Certificates, SSL/TLS, Virtual Private Networks, Wi-Fi Security	06
5.	**I.T. ACT:** Introduction, Cyber Security Regulations, Roles of International Law, the state and Private Sector in Cyberspace, Cyber Security Standards. The INDIAN Cyberspace, I.T. Act	06
6.	**Introduction to Forensics:** Introduction, General Guidelines, Finding Evidence on the PC, Finding Evidence in System Logs , Getting Back Deleted Files, Operating System Utilities, Operating System Utilities, Mobile Forensics: Cell Phone Concepts	06

Text Books:

1. Computer Security Fundamentals - Chuck Easttom, Pearson, third edition.

Reference Books:

1. Jason Luttgens, Matthew Pepe, Kevin Mandia, Incident Response & Computer Forensics, McGraw-Hill Osborne Media, 3 rd edition , 2014.
2. Keith J. Jones, Richard Bejtlich, Curtis W. Rose, Real Digital Forensics: Computer Security and Incident Response, Paperback – Import, 2005.
3. John Sammons, the Basics of Digital Forensics: The Primer for Getting Started in Digital Forensics Paperback, February 24, 2012.
4. Hacking Exposed: Network Security Secrets & Solutions, Stuart McClure, Joel Scambray and George.Kurtz, McGraw-Hill, 2005.
5. Ethical Hacking, Thomas Mathew, OSB Publisher, 2003.
7. Dave Shackleford, Virtualization Security: Protecting Virtualized Environments, John Wiley & Sons, 2012.
8. BRAGG, Network Security: The Complete Reference, McGraw Hill Professional, 2012

ANNUAL GENDER SENSITIZATION ACTION PLAN

Our institute is dedicated to fostering a positive change in attitudes and supporting gender equity within the institution and in our outreach activities. Below are some key initiatives undertaken:

1.Organized a **Dandiya program** as part of **Dasara celebrations** for female students.

2.Conducted human rights awareness-raising activities to ensure pupils understand their rights as voters.

3.Established statutory bodies to support female students.

4.Organized a self-defense training session to empower female students with the necessary skills and confidence to protect themselves in challenging situations.

5.Celebrate **International Women's Day** and **Savitri Bai Phule Jayanti** every year.

6.Allocated faculty members for student mentorship to monitor and track the progress of every student.

7.Organized an **Induction Program** for students to familiarize them with the institution's policies, processes, practices, culture, and values. The program also introduces them to the academic and administrative setup, as well as the various branches and methods of study.

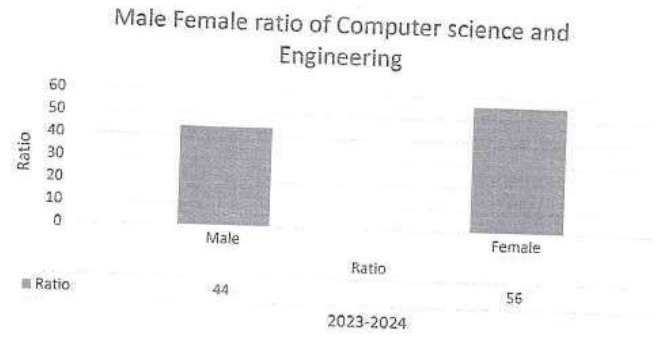
7.1.1. Measures initiated by the Institution for the promotion of gender equity during the year

Gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus

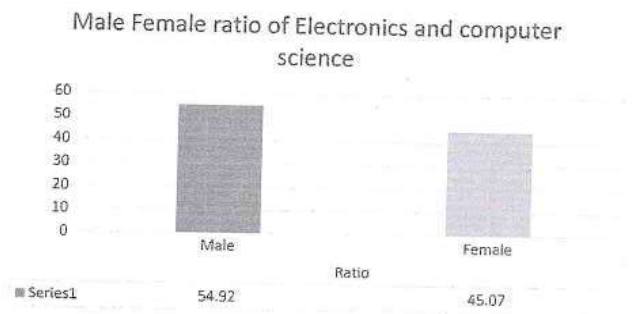
To promote gender equity, our institute has implemented a comprehensive approach that addresses biases, barriers, and cultural norms, as outlined below:

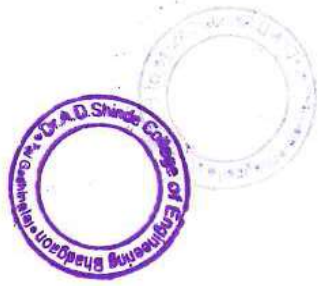
1. **Gender Sensitization Programs**: The institute regularly organizes special programs aimed at promoting gender awareness among all stakeholders.
2. **Merit-Based Recruitment**: Recruitment processes for all positions are conducted openly and transparently, focusing purely on merit, irrespective of gender.
3. **Safe and Secure Campus**: The campus is equipped with a robust security system, ensuring safety for all. Emergency response measures include a dedicated vehicle for urgent needs. Additionally, maternity leave is provided in accordance with regulations.
4. **Equal Opportunities for Students**: Both male and female students are given equal opportunities in academics and administrative roles.
5. **Girls' Hostel Safety**: The girls' hostel is managed by a full-time warden and security personnel working in shifts. CCTV cameras are installed at key locations on campus to enhance security.
6. **Support Systems**: An Anti-Sexual Harassment and Grievance Redressal Cell addresses safety, security, and social issues.
7. **Counseling and Common Room Facilities**: Regular mentor-mentee meetings provide academic and stress-related counseling. Separate common rooms for girls are equipped with amenities such as a first-aid box, rest area, sanitary napkin vending machine.
8. **Gender Equity in Activities**: The institute organizes various programs to promote gender equity in curricular and co-curricular activities such as International Women's Day, Self Defense training, Sports and awareness program.

The institute's proactive measures ensure a safe, inclusive, and equitable space for all, reinforcing its commitment to gender equity.



Year wise Male Female Ratio of Electronics and computer science Engineering				
Year	No of students		Ratio	
	Male	Female	Male	Female
2023-2024	39	32	54.92	: 45.07





Gender Parity Among Stakeholders

Our institute has many stake holders. These are as follows:

1. Students admitted to the regular Programs of the institute.
2. Teachers working in various Departments
3. Administrative Staff of the institute
4. Officers of the institute and Statutory Bodies of the institute.

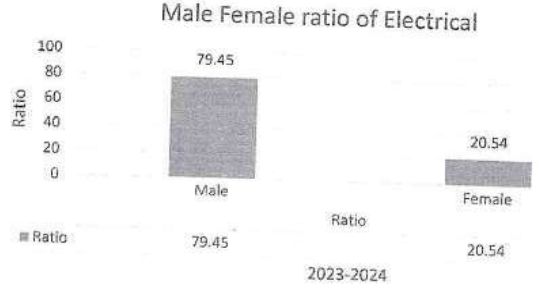
Following are the details of gender parity (Male- Female ratio) among all these stakeholders

STUDENTS ADMITTED TO THE REGULAR PROGRAMS OF THE INSTITUTE

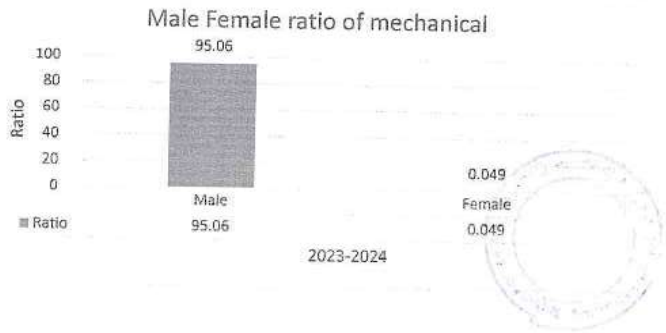
Our institute providing various graduate programmes such as, Mechanical, Electrical, Electronics and computer science, Computer science and Engineering and Civil Engineering.

The below statistics give the details of male female student ratio in faculties Mechanical, Electrical, Electronics and computer science, Computer science and Engineering and Civil Engineering.

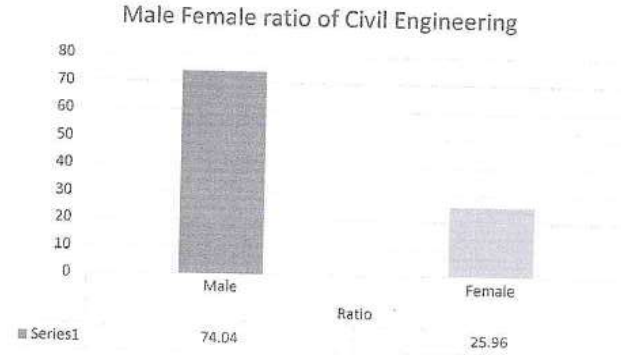
Year wise Male Female Ratio of Computer science and Engineering				
Year	No of students		Ratio	
	Male	Female	Male	Female
2023-2024	44	56	44 :	56



Year wise Male Female Ratio of Mechanical Engineering				
Year	No of students		Ratio	
	Male	Female	Male	Female
2023-2024	154	8	95.06	: 0.049



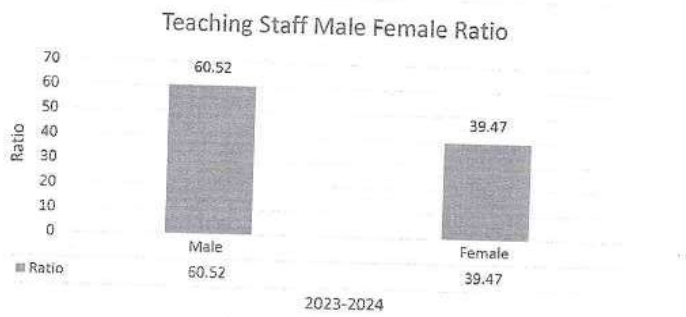
Year wise Male Female Ratio of Civil Engineering				
Year	No of students		Ratio	
	Male	Female	Male	Female
2023-2024	134	47	74.04	: 25.96



Year wise Male Female Ratio of Electrical Engineering				
Year	No of students		Ratio	
	Male	Female	Male	Female
2023-2024	116	30	79.45	: 20.54

Teachers working in institute departments

Teaching Staff Male Female Ratio			
Year	Male	Female	Total
2023-2024	46	30	76
Ratio	60.52	39.47	



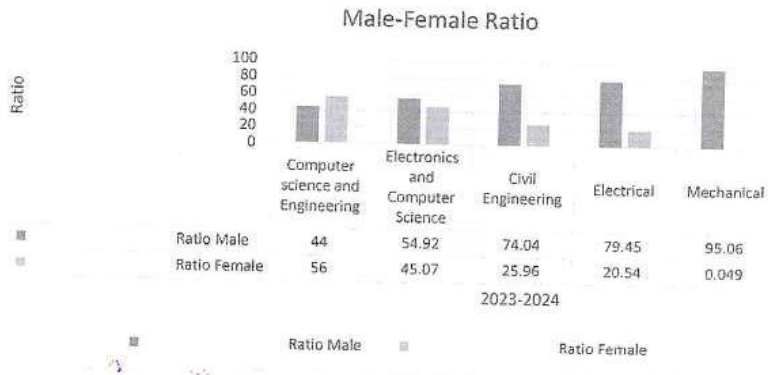
Women heads/ coordinators

Male Female Ratio of Heads of the Departments				
No of Departments			Ratio	
Male	Female	Toatal	Male	Female

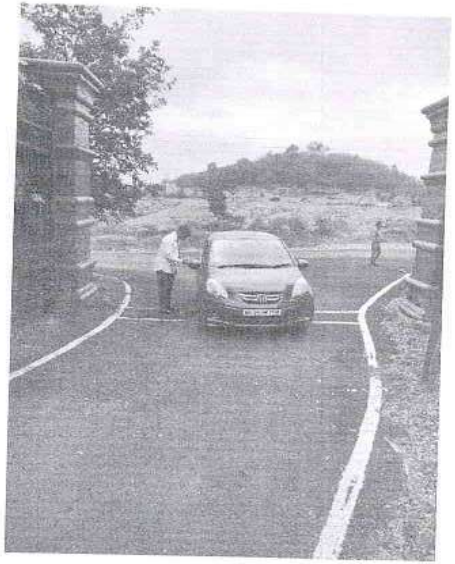
Dr.A.D.Shinde College of

Year wise Male Female Students Ratio for Assessment Period 2023-2024

Overall Male Female Ratio for **Assessment Period 2023-2024**				
Department	No of students		Ratio	
	Male	Female	Male	Female
Mechanical	116	30	95.06	0.049
Electrical	116	30	79.45	20.54
Electronics and Computer Science	39	32	54.92	45.07
Computer science and Engineering	44	56	44	56
Civil Engineering	134	47	74.04	25.96



Safety and Security

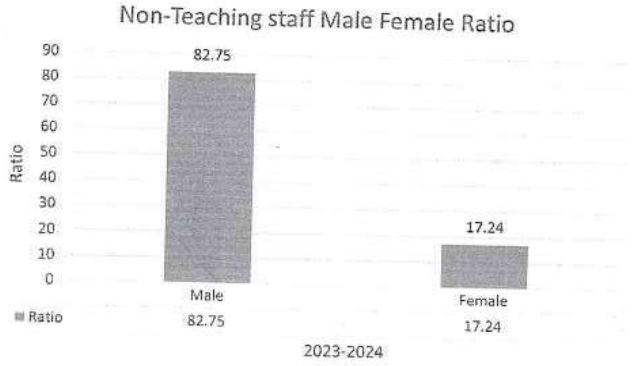


CCTV

Administrative staff of the institute

Non-teaching staff male female ratio

Non-Teaching staff Male Female Ratio				
Year	No of Non-Teaching members		Ratio	
	Male	Female	Male	Female
2023-2024	24	5	82.75	: 17.24



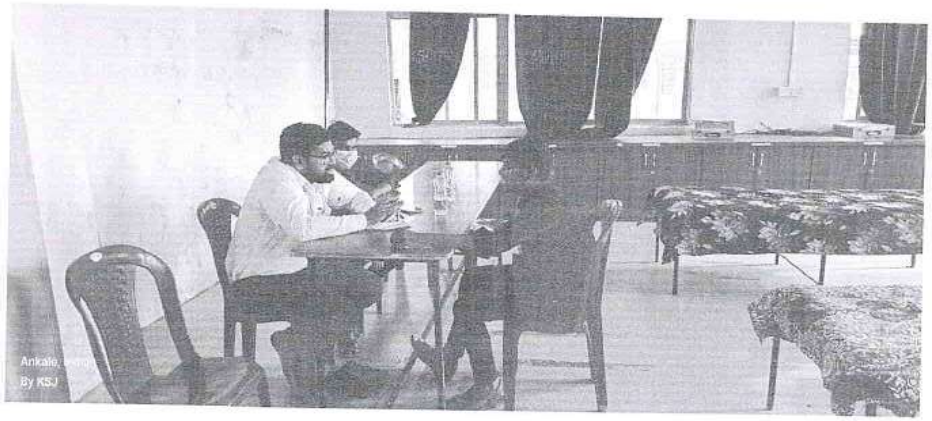
Officers and statutory bodies of the institute

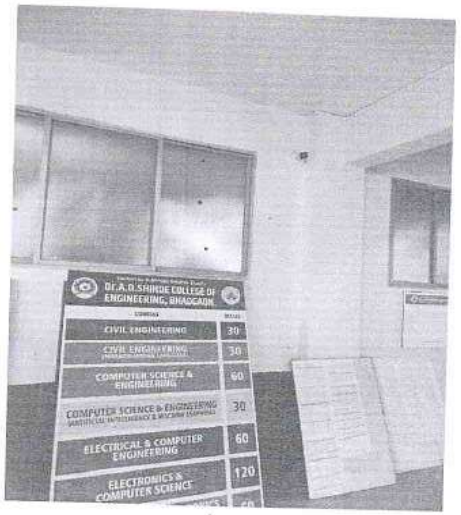
Male female ratio of institute officers and statutory bodies

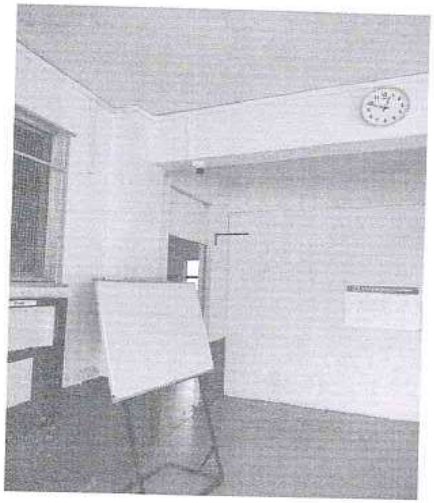
Male female ratio of institute officers and statutory bodies					
Category	No. of Officers			Ratio	
	Male	Female	Total	Male	Female
Governing Body	5	4	9	55.55	44.44

Dr. A.D. Shinde College of Engineering

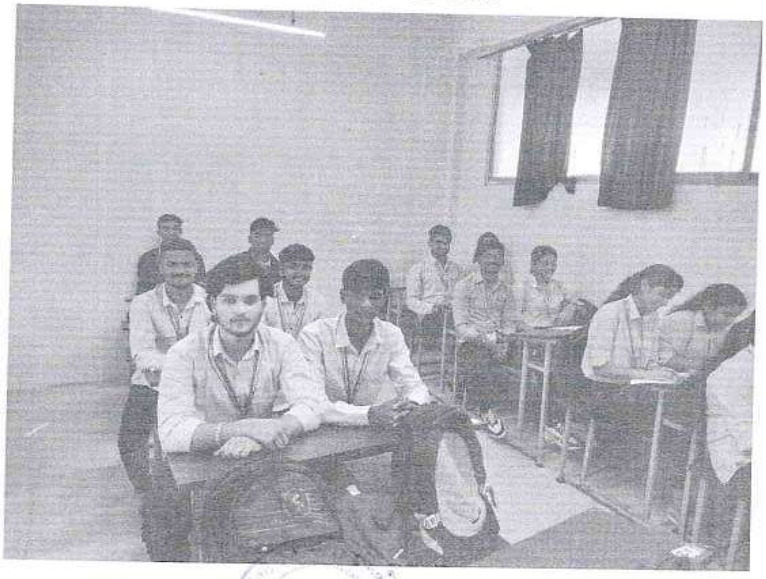
Counseling





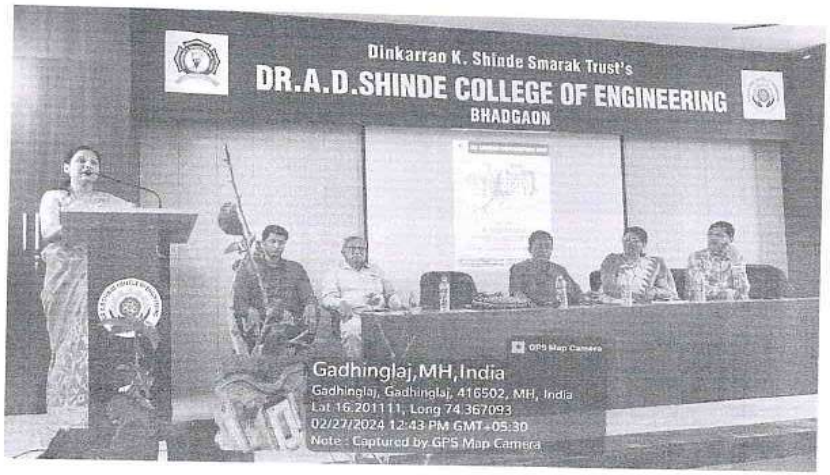


Student Wear Id Cards



Dr. A. D. Shinde College of Engineering Bhadgaon Gadhinglaj

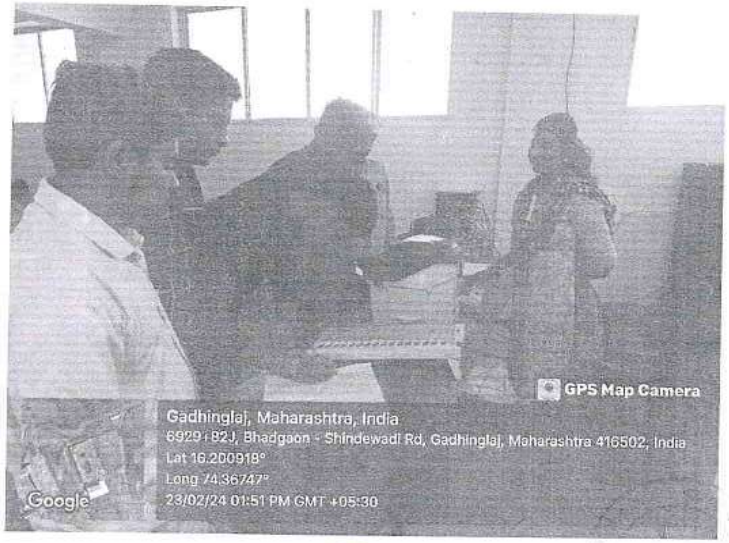
Awareness program



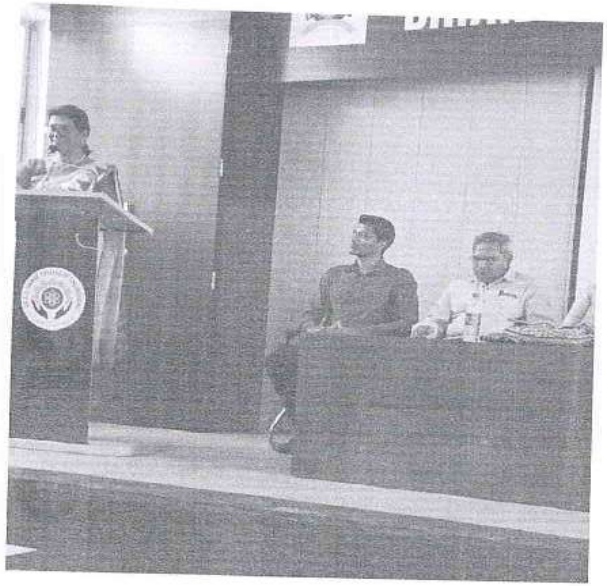
Dr.A.D.Shinde College of Engineering, Gadhinglaj

Girls Common Rooms

Awareness session on EVM



Dr.A.D.Shinde College of Engineering Bhadgaon



Dinkarrao K. Shinde Smarak Trust's

DR. A. D. SHINDE COLLEGE OF ENGINEERING

Gadhinglaj A/ P: Bhadgaon, Tal- Gadhinglaj, Dist- Kolhapur

Date: 04/10/2023

NOTICE

All girl students are hereby informed that a we are going to conduct "Self-Defense" training session on 5th0 October 2023 at 10:00 AM on the college playground. Attendance is mandatory for all girl students.

Principal

(Dr. D. V. Ghewade)

Dr.A.D.Shinde College of Engineering Bhadgaon

Dinkarrao K. Shinde Smarak Trust's

DR. A. D. SHINDE COLLEGE OF ENGINEERING

Gadhinglaj A/ P: Bhadgaon, Tal- Gadhinglaj, Dist- Kolhapur

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Dinkarrao K. Shinde Smarak Trust's

DR. A. D. SHINDE COLLEGE OF ENGINEERING

Gadhinglaj A/ P: Bhadgaon, Tal- Gadhinglaj, Dist- Kolhapur

Report on Self defence Training programme

Academic Year 2023-24

Event Details	
Activity Title	Self-Defense
Date	05/10/2023
Venue	DADSCOE College Campus.
Time	10.00 am
Activity Coordinator	

Objectives

- Equip students with essential skills and techniques to protect themselves in potentially dangerous situations.
- Teach students to identify and avoid risky situations by increasing their awareness of their surroundings.
- Advocate for equal rights and opportunities by encouraging personal empowerment and resilience.

Description

The Self-Defense training session was organized to empower female students with the necessary skills and confidence to protect themselves in challenging situations. This event aimed to raise awareness, enhance personal safety, and promote mental and physical preparedness among the participants.

The Self-Defense training session was conducted successfully on the college playground with enthusiastic participation from all girl students. The event began with an introduction by the Principal Dr.D.V.Ghewade sir who highlighted the importance of self-defense skills in today's world.

Professional trainer Mr. Kishor Bagilgekar from Karate Academy with team led the session, starting with basic warm-up exercises and gradually teaching practical self-defense techniques. These included ways to block, escape holds, and use everyday items for protection. Trainers also educated participants on situational awareness and quick decision-making in emergencies.

Dr.A.D.Shinde College of Engineering Bhadgaon, Gadhinglaj

Photos

Student Participation

Dr.A.D.Shinde College of Engineering Bhadgaon

Demonstration of Self Defence Techniques

Conclusion:

The Self-Defense training session was a great success, achieving its goal of empowering girl students. We extend our gratitude to the trainers, faculty members, and students for their cooperation and enthusiasm in making the event impactful.

Dr.A.D.Shinde College of Engineering Bhadgaon

Date:17/11/2024

NOTICE

All girl students are hereby informed that we are going to conduct a "Self-Defense" training session on 18th November 2024 at 10:00 AM on the college playground. Attendance is mandatory for all girl students.

Principal

(Dr. D. V. Ghewade)

Dr.A.D.Shinde College of Engineering & Management, Ghotawade

Report on Self defence Training programme

Academic Year 2024-25

Event Details	
Activity Title	Self-Defense
Date	18/11/2024
Venue	DADSCOE College Campus.
Time	10.00 am
Activity Coordinator	

Objectives

- Equip students with essential skills and techniques to protect themselves in potentially dangerous situations.
- Teach students to identify and avoid risky situations by increasing their awareness of their surroundings.
- Advocate for equal rights and opportunities by encouraging personal empowerment and resilience.

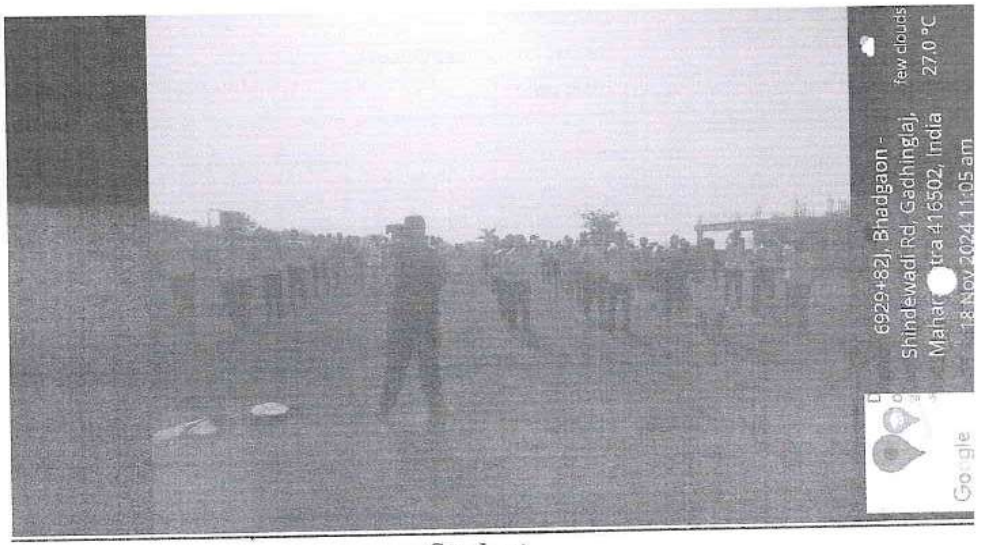
Description

The Self-Defense training session was organized to empower female students with the necessary skills and confidence to protect themselves in challenging situations. This event aimed to raise awareness, enhance personal safety, and promote mental and physical preparedness among the participants.

The Self-Defense training session was conducted successfully on the college playground with enthusiastic participation from all girl students. The event began with an introduction by the Principal Dr.D.V.Ghewade sir who highlighted the importance of self-defense skills in today's world.

Professional trainer Mr. Kishor Bagilgekar from Karate Academy with team led the session, starting with basic warm-up exercises and gradually teaching practical self-defense techniques. These included ways to block, escape holds, and use everyday items for protection. Trainers also educated participants on situational awareness and quick decision-making in emergencies.

Photos



Student

Demonstration of Self Defence Techniques

Conclusion :

The self-defense training event for girls was a resounding success, fulfilling its objective of empowering female students with practical skills and strategies to enhance their personal safety. The enthusiastic participation and positive feedback from students demonstrated the significance of such initiatives in building confidence, self-reliance, and situational awareness.