



Guru Nanak Dev Engineering College

Mailoor Road, Bidar, KA – 585403

Approved by AICTE New Delhi and Affiliated to VTU Belagavi

Criterion 1: Curricular Aspects

Key Indicators 1.1: Curricular Planning and Implementation

1.1.1: The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

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ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

"ದಿವ್ಯಾ ಅಭಿನಯಮ್ ರ್ಗಲ್ಯ"ರ ಅಡಿಯಲ್ಲಿ, ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ
"ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾವಿ-ಜಿ.ಎಂ.ಒ.ಲ, ಕರ್ನಾಟಕ, ಭಾರತ

Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VTU Act, 1994)
"Jnana Sangama" Belagavi-590018, Karnataka, India
Phone: (0831) 2498100, Fax: (0831) 2405467, Website: vtu.ac.in

Dr. A. S. Deshpande B.E., M.Tech., Ph.D.
Registrar

Phone: (0831) 2498100
Fax: (0831) 2405467

Ref: VTU/BGM/BOS/A9/2021-22 6521

Date: 30 MAR 2022

Revised-NOTIFICATION

Subject: -Academic Calendar of EVEN semesters of UG & PG programs of University regarding...

Reference: Hon'ble Vice-Chancellor's approval dated: 25.03.2022

The academic calendar concerned to IV semesters of B.Plan/B.Arch., VI/VIII semesters of B.E./B.Tech./B.Plan/B.Arch., IV semesters of MCA/M.Arch/M.Tech., and VI semester of MCA(2018 scheme), Programs of University is hereby notified in enclosed sheet;

The Principals of Affiliated, Constituent, and Autonomous Engineering Colleges are hereby informed to bring the content of this circular to the notice of all concerned.

Sd/-
REGISTRAR

To,

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.

Copy to.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director SMU ITI CNC, VTU Belagavi requested to make arrangements to upload Academic Calendar on the VTU web portal
5. PS to Registrar VTU Belagavi
6. All the concerned Special Officer/s and Caseworker/s of the academic section, VTU, Belagavi

Shau.

PRINCIPAL

Guru Nanak Dev Engg. College, Bidar



REGISTRAR

7

Academic Calendar for EVEN Semester of UG& PG programs for the year 2021-22

	VI semester B.E./B.Tech.	VI semester B.Arch./ B.Plan.	VIII semester B.E./B.Tech.	VIII semester B.Plan	VIII semester B.Arch	IX semester B.Arch #	IV Semester B.Arch.	IV semester B. Plan	IV semester MCA	IV semester M.Tech.	IV Semester M.Arch.	VI Semester MCA (2018 scheme)
Commencement of EVEN Semester	04.04.2022	04.04.2022	04.04.2022	04.04.2022	04.04.2022	14.02.2022	11.04.2022	11.04.2022	04.04.2022	04.04.2022	06.04.2022	04.04.2022
Last Working day of EVEN Semester	16.07.2022	16.07.2022	30.06.2022	30.06.2022	23.07.2022	10.06.2022	23.07.2022	23.07.2022	30.06.2022	30.06.2022	30.06.2022	30.06.2022
Practical/viva Examination	18.07.2022 To 29.07.2022	18.07.2022 To 29.07.2022	---	---	25.07.2022 To 30.07.2022	20.06.2022 To 22.06.2022	25.07.2022 To 30.07.2022	25.07.2022 To 30.07.2022	04.07.2022 To 09.07.2022	---	---	---
Theory Examinations	01.08.2022 To 20.08.2022	01.08.2022 To 20.08.2022	04.07.2022 To 20.07.2022	04.07.2022 To 15.07.2022	01.08.2022 To 20.08.2022	---	01.08.2022 To 20.08.2022	01.08.2022 To 20.08.2022	11.07.2022 To 28.07.2022	20.07.2022 To 10.08.2022	---	---
Internship	---	---	---	---	---	---	---	---	---	---	---	---
Internship Viva Voce/ Project viva	---	---	22.07.2022 To 30.07.2022	---	---	---	---	---	---	---	---	---
Summer Project / Professional training /Organization Study	---	---	---	---	---	---	---	---	---	---	---	---
Submission of the report to University	---	---	---	---	---	---	---	---	04.07.2022 To 16.07.2022	04.07.2022 To 18.07.2022	04.07.2022 To 16.07.2022	04.07.2022 To 16.07.2022
Commencement of ODD Semester	22.08.2022	22.08.2022	---	---	22.08.2022	---	22.08.2022	22.08.2022	---	---	---	---

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Please Note:

- The academic sessions for EVEN semesters should commence from the dates mentioned above.
- The Institute can plan to have extra classes before the last working day to complete the requisite hours of teaching and learning of courses as per the scheme.
- Faculty should conduct additional tutorial classes in Blended mode to solve the doubts of the students.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University Examinations will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar may be modified based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for Autonomous Colleges. In case any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- The college has to conduct offline classes to cover 80% of the syllabus of the courses; however, 20% of the syllabus can be covered in virtual (Online) mode. Attendance of the students for offline and online classes is mandatory and records should be maintained and submitted to the university whenever informed.

B.Arch. X and IX semesters swapped for AY 2021-22

20/07/22



GURU NANAK DEV ENGINEERING COLLEGE, BIDAR-585403.

(Approved by AICTE, New Delhi; Recognised by Govt. Of Karnataka ; Affiliated to VTU, Belagavi)

Vision and Mission of the Institute

Vision:

To be a premier technological institution that fosters humanity, ethics and excellence in education and research towards inspiring and developing future torch bearers.

Mission:

1. To impart quality educational experience and technical skills to students that enables them to become leaders in their chosen professions.
2. To nurture scientific temperament and promote research and development activities.
3. To inculcate students with an ethical and human approach, so as to have big picture of societal development in their future career.
4. To provide service to industries and communities through educational, technical, and professional activities.

ACADEMIC CALENDAR

ACA/R/01

REV : 00

Date : 01.02.2019

Academic Year : 2021-22

Semester : Even

B.E. VI and VIII SEMESTER

Commencement Date : 04-04-2022

Last Working Day : for VI Sem: 16-07-2022 , VIII Sem:30-06-2022

Week No.	DAY							No. of Working	ACTIVITIES/EVENTS	DATES
	Mon	Tue	Wed	Thu	Fri	Sat	Sun			
APRIL										
	Mon	Tue	Wed	Thu	Fri	Sat	Sun			
I	4	5	6	7	8	9	10	6		
II	11	12	13	14	15	16	17	4	Dr. B. R. Ambedkar Jayanti	14/04/2022
									Good Friday	15/04/2022
III	18	19	20	21	22	23	24	6		
IV	25	26	27	28	29	30		6	Project Review -I	29/04/2022 to 30/04/2022
MAY										
	Mon	Tue	Wed	Thu	Fri	Sat	Sun			
IV							1			
V	2	3	4	5	6	7	8	5	Basava Jayanthi/ Akshaya Tritiya / Ramzan	3/5/2022
VI	9	10	11	12	13	14	15	6	CIE Test -I	9/5/2022 to 13/5/2022
VII	16	17	18	19	20	21	22	6	First Parent- teachers meet	18/5/2022
VIII	23	24	25	26	27	28	29	6	Project Review -II	27/05/2022 to 28/05/2022
IX	30	31						2		
JUNE										
	Mon	Tue	Wed	Thu	Fri	Sat	Sun			
IX			1	2	3	4	5	4		
X	6	7	8	9	10	11	12	4	CIE Test-II for VIII sem	06/6/2022 to 07/6/2022
									Technovision - 22 / E-Buzz	10/6/2022 to 11/6/2022
XI	13	14	15	16	17	18	19	6	CIE Test-II for VI sem	13/6/2022 to 17/6/2022
									Second Parent Teachers meet	22/5/2022
XII	20	21	22	23	24	25	26	6	Project Review - III	24/05/2022 to 25/02/2022
XIII	27	28	29	30				4	CIE-III for VIII sem	29/7/2022 to 30/7/2022
JULY										
	Mon	Tue	Wed	Thu	Fri	Sat	Sun			
XIII					1	2	3	2		
XIV	4	5	6	7	8	9	10	6		
XV	11	12	13	14	15	16	17	6	CIE-III	11/7/2022 to 13/7/2022
Total No. of Working Days VI - 85 Days Total No. of Working Days VIII Sem - 71 Days									Practical Examinations/ Project Viva Voce	VI Semester 18.07.2022 to 29.07.2022 VIII semester 22.07.2022 to 30.07.2022
Commencement of III Semester: 22.08.2022									Semester End Theory Examinations	VI Semester 1.08.2022 to 20.08.2022 VIII semester 04.07.2022 to 20.07.2022

Note: 1. Lab CIE to be conducted in last laboratory class.

2 Any unexpected holiday classes to be compensated on Immediate next Sunday

Dean Academics



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Guru Nanak Dev Engg. College, Bidar

Principal
Principal



GURU NANAK DEV ENGINEERING COLLEGE, BIDAR-585403.

(Approved by AICTE, New Delhi; Recognised by Govt. Of Karnataka ; Affiliated to VTU, Belagavi)



VISION AND MISSION OF THE DEPARTMENT

Vision:

To be recognized as a department known for quality education and research in the field of Civil Engineering and its contributions to the society

Mission:

1. Continually improve the standard of our graduates by engaging in innovative teaching learning methods with high caliber motivated faculty members keeping in-line with the rapid technological advancements. .
2. Promote and support innovation and research activities for growth of individual knowledge and continuous learning
3. Provide an education system that promotes entrepreneurial spirit as well as freedom of thought, creativity with

DEPARTMENT OF CIVIL ENGINEERING CALENDAR

ACA/R/01

REV : 00

Date : 01.02.2019

Academic Year : 2021-22

Semester : Even

B.E. VI and VIII SEMESTER

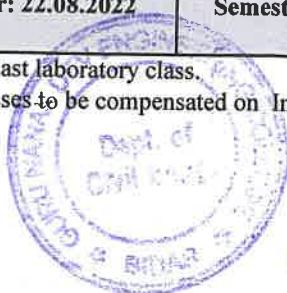
Commencement Date : 04-04-2022

Last Working Day : for VI Sem: 16-07-2022 ,VIII Sem:30-06-22

Week No.	DAY							No. of Working	ACTIVITIES/EVENTS	DATES
	Mon	Tue	Wed	Thu	Fri	Sat	Sun			
APRIL										
I	4	5	6	7	8	9	10	6	Dr. B. R. Ambedkar jayanti	14/04/2022
II	11	12	13	14	15	16	17	4	Good Friday	15/04/2022
									Online Alumni Meet 2022	16/04/2022
III	18	19	20	21	22	23	24	6	Webinar on Engineer Risk and Uncertainties	27-04-2022
IV	25	26	27	28	29	30		6	Webinar on How to Crack Corporate	28-04-2022
MAY										
IV							1		Basav Jayanthi/ Akshaya Tritiya/Ramzan	03-05-2022
V	2	3	4	5	6	7	8	5	Webinar on High Speed Rail	05-05-2022
VI	9	10	11	12	13	14	15	6	CIE Test -I	9/5/2022 to 13/5/2022
VII	16	17	18	19	20	21	22	6	First Parent- teachers meet	18/5/2022
VIII	23	24	25	26	27	28	29	6		
IX	30	31						2		
JUNE										
IX			1	2	3	4	5	4	Celebration of World Environment day	05-06-2022
X	6	7	8	9	10	11	12	4	CIE Test-II for VIII sem	06/6/2022 to 07/6/2022
									Technovision - 22	10/6/2022 to 11/6/2022
XI	13	14	15	16	17	18	19	6	CIE Test-II for VI sem	13/6/2022 to 17/6/2022
XII	20	21	22	23	24	25	26	6	Seminar on River Engineering	22-06-2022
XIII	27	28	29	30				4	CIE-III for VIII sem	29/6/2022 to 30/6/2022
JULY										
	Mon	Tue	Wed	Thu	Fri	Sat	Sun		Seminar on offshore Engineering	01-07-2022
XIII					1	2	3	2	Seminar on water Resource Field Method	04-07-2022
XIV	4	5	6	7	8	9	10	6	Seminar on Relability of analysis of	09-07-2022
XV	11	12	13	14	15	16	6	6	CIE-III	11/7/2022 to 13/7/2022
Total No. of Working Days VI - 85 Days									Practical Examinations/ Project Viva Voce	VI Semester
Commencement of III Semester: 22.08.2022									Semester End Theory Examinations	VI Semester 1.08.2022 to 20.08.2022 VIII semester 04/07.2022 to

Note: 1. Lab CIE to be conducted in last laboratory class.

2 Any unexpected holiday classes to be compensated on Immediate next Sunday



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HOD
Department Of Civil Engineering
GNDEC-BIDAR.



GURU NANAK DEV ENGINEERING COLLEGE, BIDAR
Department of Civil Engineering

Course File

Academic Year: 2022-2023

Semester : IV

Subject : Public Health Engineering

Subject Code: 21CV43

Faculty Name: B B KORI

Designation : Professor & Head


**Faculty
Signature**


**PAC Member
Signature**


**HOD
Signature**


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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

Department of Civil Engineering

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

ACA/R / 06

Rev : 00

Date: 01.08.2016

Department of Civil Engineering

Subject choice

Academic Year: 2021-22

Semester : Even

Subject choice										
Sl. No.	Name of the faculty	SUBJECTS NAME & CODE								Signature
		UG						PG		
		Semester					Elective (Sem.)			
1	Dr. B. B. Kori	Theory	INSTE	18CV45						Si
		Lab	EE	Lab						
2	Dr. P. M. Singh	Theory	WSTE	H&DE						gma
		Lab	EE	Lab						
3	Dr. Munde	Theory	CT	83007						MA
		Lab	1844	170182						
4	Dr. Nagray. R. G.	Theory	GDS							NAG
		Lab								
5	Mr. Sunil. B	Theory	RHTA	PD	AS					Sunar
		Lab	18CV45	18CV45	18CV45					
6	Mr. Vishal. S. D.	Theory	ADS							Star
		Lab	18CV42							

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

ACA/R / 06

Rev : 00

Date: 01.08.2016

Department of Civil Engineering

Academic Year: 21-22

Semester : Even

Subject choice

Date: 01.08.2010										
Subject choice										
Sl. No.	Name of the faculty	SUBJECTS NAME & CODE							Signature	
		UG					PG			
		Semester					Elective (Sem.)			
7	Mr. Umashankar	Theory	V/ 18CV61	18CV81						
			DS>E	DPSC						
		Lab	SAL (18CV667)							
8	Mrs. Rajendra	Theory	H&IE	WSTE						
		Lab	EE-lab							
9	Mr. Shivasankar	Theory	EC&EM 28CV24							
		Lab								
10	Mr. Sandeep	Theory	PD. (18CV85)				RHT 18CV645			
		Lab								
11	Mr. Mahalingam	Theory	D. Survey (18CV45)	DPSC (18CV81)						
		Lab	SAL Lab (18CV67)							
12	Mr. Punit	Theory	RS&GIS	WSTE						
		Lab	Env. Lab							





GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

ACA/R / 06

Rev : 00







Date: 01.08.2016

Department of Civil Engineering

Academic Year: 21-22

Semester : Even

Subject choice

Sl. No.		Name of the faculty	SUBJECTS NAME & CODE							Signature
			UG					PG		
			Semester					Elective (Sem.)		
13	Mr. Basavaraj	Theory	PD 18CV825	RHTA 18CV645						
		Lab								
14	Mr. Vishwanath	Theory	QSCM		AGT					
		Lab								
15	Mr. Anwar R.D.	Theory	DPSC 18CV87	ADS 18CV42	QSCM(P) 17CV87					
		Lab								
16	Mr. Manish	Theory	DSS 18CV61	RSBGIS 18CV651	AGE/PSC 18CV62 18CV81	CT 18CV44				
		Lab	SAL							
17	Mr. Vishal.p	Theory	QSCM(P) 17CV81	Concrete.T 18CV44	DPSC. 18CV81					
		Lab								
18	Vivekanand	Theory	Element of CIVIL (21CV24)	ADS(42) (18CV42)						
		Lab	SAL (18CVL67)							

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ACA/R / 06

Rev : 00



Date: 01.08.2016

Department of Civil Engineering

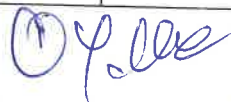
Academic Year: 21-22

Semester : Even

Subject choice

		SUBJECTS NAME & CODE								Signature
Sl. No.	Name of the faculty	UG						PG		
		Semester					Elective (Sem.)			
19	Mr. B. Prasad	Theory	CT	DSS	H&IE					
		Lab	(SAL)	(18CVL67)						
20	Mr. Chandra	Theory	PSC		CT		RHT.			
		Lab								
		Theory								
		Lab								
		Theory								
		Lab								
		Theory								
		Lab								
		Theory								
		Lab								

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21/3 HOD
Department of Civil Engineering
GNDEC-BIDAR.



GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

ACA/R / 07	Department of Civil Engineering	Academic Year: 2021-22
Rev : 00		Semester :Even
Date: 01.02.2016	Subject Allotment	Date: 21-03-2022

IVth

Sl. No.	Subject & Code No.	Name of Faculty	Name of Faculty
		Section – A	Section – B
1	Complex Analysis, Probability And Statistical Methods (18MAT41)	Prof. Jyothi	Prof. Jyothi
2	Analysis of Determinate Structures (18CV42)	Prof. Vivekanand	Prof. Vishalkumar S.D.
3	Applied Hydraulics (18CV43)	Prof. Vishal Patil	Prof. Shivshankar.B.C.
4	Concrete Technology (18CV44)	Prof. Biradar Praveen	Prof. Parashuram.L.
5	Advanced Surveying (18CV45)	Prof. Sunil Birkur	Prof. Mallikarjun .V.K.
6	Water Supply & Treatment Engineering (18CV46)	Dr. B.B.Kori	Prof. Puneeth Beldar
7	Engineering Geology Laboratory (18CVL47)	Prof. Shivshankar.B.C.	Prof. Basavakumar
8	Fluid Mechanics and Hydraulic Machines Laboratory (18CVL48)	Dr. Nagraj.R.G.	Prof. Amar R.D.

VI th

Sl. No.	Subject & Code No.	Name of Faculty	Name of Faculty
		Section – A	Section – B
1	Design of Steel Structural Elements (18CV61)	Prof. Manish .S.	Prof. Umashankar.Y.
2	Applied Geotechnical Engineering (18CV62)	Prof. Vishwanath	Prof. Vishwanath
3	Hydrology and Irrigation Engineering (18CV63)	Prof. P.M.Singa	Prof. Rajani.S.
4	Railway, Harbours, Tunnelling & Airports (18CV64)	Prof. Sunil Birkur	Prof. Biradar Praveen
5	RER (18ELE)	Prof.	
6	Software Application Laboratory (18CVL66)	Prof. Manish.S.	Prof. Parashuram.L.
7	Environmental Engineering Laboratory (18CVL67)	Dr. P.M.Singa	Prof. Rajani S.
8	Extensive Survey project (18CVEP68)	All faculty members	

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Guru Nanak Dev Engg. College, Bidar





GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

-2-

VIII th

Sl. No.	Subject & Code No.	Name of Faculty	Name of Faculty
		Section – A	Section – B
1	Design of Pre-stressed Concrete (18CV81)	Prof. Mallikarjun.V.K.	Prof. Vishal Patil
2	Pavement Design (18CV825)	Prof. Sandeep Biradar	Prof. Basava kumar
3	Project Work Phase – 2 (18CVP83)	Prof. Umashankar .Y.	
4	Technical Seminar (18CVS84)	All Faculty members	

To,
The Principal,
GNDEC Bidar



[Signature]
HOD (CIVIL)
HOD
Department Of Civil Engineering
GNDEC-BIDAR.

[Signature]

PRINCIPAL

Guru Nanak Dev Engg. College, Bidar



GURU NANAK DEV ENGINEERING COLLEGE BIDAR

Department OF CIVIL ENGINEERING

MASTER TIME TABLE

Semester: EVEN

With Effect From: 13-02-2023

Day →	MONDAY							TUESDAY							WEDNESDAY							THURSDAY														SATURDAY					
Period→	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4		
IV/A/053	FM (ARD)	CIP (S.J)	FMLA3 / PHEA1 / ERLA2		AIS (VK)	CAP & S (KK)	BOE (PMS)	AIS (VK)	PHE (BEK)	FM (ARD)	FM (ARD)	GB (MK)	BOE (PMS)	MDP (DK)	AIS (VK)	FM (ARD)	PHE (BEK)	BOE (PMS)	UHE (SKB)	CAP & S (KK)	APT (BB)	AIS (VK)	CAP & S (KK)	PHE (BEK)	GB (MK)	FMLA3 / PHEA1 / ERLA2			CAP & S (KK)	FM (ARD)	PHE (BEK)	AIS (VK)	CAP & S (KK)	FMLA3 / PHEA1 / ERLA2		Sub. (Faculty)	Sub. (Faculty)	Sub. (Faculty)	Sub. (Faculty)		
VI/A/043	DSS (PL)	DSS (PL)	SWM (PMS)	RES/E (AB/SC)	SAL(A1)/EEL(A2) MS/RJ			RES/E (AB/SC)	AGT (PL)	HI (RJ)		SAL(A2)/EEL(A3) MS/RJ			RES/E (AB/SC)	DSS (PL)	HI (RJ)	AGT (PL)	SAL(A3)/EEL(A1) MS/RJ			HI (RJ)	DSS (PL)	SWM (PMS)	AGT (PL)				SWM (PMS)	DSS (PL)	HI (RJ)	AGT (PL)				AGT (PL)	SWM (PMS)	ABT (PB)	CODING (PJ)		
VIII/A/141	PD (SBS)	PSC (ARD)	PSC (ARD)		PROJECT WORK- II			PD (SBS)	PSC (ARD)	TECHNICAL SEMINAR			PROJECT WORK- II			PSC (ARD)	PD (SBS)	INTERNSHIP			PROJECT WORK- II			PD (SBS)	PSC (ARD)	INTERNSHIP			PROJECT WORK- II			TECHNICAL SEMINAR			PROJECT WORK- II			TECHNICAL SEMINAR			
VIII/B/144	TECHNICAL SEMINAR				PROJECT CT			PSC (USY)	PD (SBS)	INTERNSHIP			PROJECT WORK- II			PSC (USY)	PD (SBS)	INTERNSHIP			PROJECT WORK- II			PD (SBS)	PSC (USY)	INTERNSHIP			SEMINAR / PROJECT WORK-II			PSC (USY)	PSC (USY)	PD (SBS)		PROJECT WORK- II			TECHNICAL SEMINAR/ INTERNSHIP		

Legend

Faculty Name

Dr. Krishnaji K
Prof. Amar R.D
Dr. B B Kori
Prof. Vivekanand A
Dr. Pradeep singa
Prof. Sandeep kumar
Prof. Sanju kumar
Dr. Manojkumar
Prof. Sunilkumar
Prof. Parashuram Lokre

Legend

Subject

CAP & S
Fluid Mechanis
Public health Engg
Analysis of structures
Biology for Engineers
Earth Resource and Engineering lab
Constitution of India & Professional Ethics
Green building
Universal Human values
Infra Institutional

Prof. Parashuram Lokre
Prof. Parashuram Lokre
Prof. Rajani
Dr. Pradeep singa
Prof. Ashish & Suresh chimkode
Prof. Manish S
Prof. Rajani
Prof. Padmanjali
Prof. Puneeth B

Design of steel structures and elements
Applied Geotechnical Engineering
Hydrology Irrigation Engineering
Solid waste management
Renewable energy sources & programming in Java
Software Application Lab
Environmental Engg lab
Coding class
Aptitude class

Prof. Manish S
Prof. Sandeepkumar
Prof. Parashuram L
Prof. Umashankar Y
Prof. Ravinandan
Prof. Parashuram L
Prof. Sunilkumar B

Design of pre-stressed concrete
Pavement design
Internship
project work
project work
Technical seminars
Pavement design

Time Table Co-ordinator

Head of Department

HOD

Department Of Civil Engineering
GNDEC-BIDAR.

Principal





GURU NANAK DEV ENGINEERING COLLEGE BIDAR
DEPARTMENT OF CIVIL ENGINEERING

Academic Year: 2022-2023

Semester: EVEN

FACULTY TIME TABLE

Name of the Faculty Dr. BB kori

Semester IV

With effect from: 05.06.2023

Day	Time →	9 a.m. to 10 a.m.	10 a.m. to 11 a.m.	11 a.m. to 12 Noon	12 Noon to 1 p.m.	L U N C H B R E A K	2 p.m. to 3 p.m.	3 p.m. to 4 p.m.	4 p.m. to 5 p.m.
	Period →	1	2	3	4		5	6	7
Monday									
Tuesday			PHE Room No.053						
Wednesday				PHE Room No.053					
Thursday				PHE Room No.053					
Friday				PHE Room No.053				PHE LAB(A3) (Room No.041)	
Saturday									



Signature of Faculty member

PRINCIPAL
Guru Nanak Dev Engg. College, Bidar

Signature of HOD
HOD
Department of Civil Engineering
GNDEC-BIDAR



GURU NANAK DEV ENGINEERING COLLEGE BIDAR

DEPARTMENT OF CIVIL ENGINEERING

Academic Year:2022-2023

Semester: EVEN

CLASS TIME TABLE

Semester.IV	Section:A		Room No.:053		With Effect From:05-06-2023			
Days / Time → ↓	9 a.m. to 10 a.m.	10 a.m. to 11 a.m.	11 a.m. to 12 Noon	12 Noon to 1 p.m.	1 p.m. to 2 p.m.	2 p.m. to 3 p.m.	3 p.m. to 4 p.m.	4 p.m. to 5 p.m.
MONDAY	FM ARD	CIP SJ	FML(A3)/PHEL(A1)/ERL(A2) ARD/RJ/SB		L U N C H	AIS VK	CAP&S KK	BOE PMS
TUESDAY	AIS VK	PHE BBK	FM ARD	FM ARD		GB MK	BOE PMS	LIBRARY
WEDNESDAY	AIS VK	FM ARD	PHE BBK	BOE PMS		UHP SKB	CAP&S KK	APT PB
THURSDAY	AIS VK	CAP&S KK	PHE BBK	GB MK		FML(A1)/PHEL(A2)/ERL(A3) SKB/PB/SB		
FRIDAY	CAP&S KK	FM ARD	PHE BBK	AIS VK		CAP&S KK	FML(A2)/PHEL(A3)/ERL(A1) SKB/BBK/SB	
SATURDAY								

Legend Subject

Legend faculty Name

Complex Analysis, Probability and Statistical Methods.	Dr.Krishnaji.K
Fluid Mechanics and Hydraulics	Prof.Amar RD
Public Health Engineering	Dr.BB Kori
Analysis of Structures	Prof.Vivekanand
Biology for Engineers	Dr.Pradeep Singa
Earth Resources and Engineering Lab	Prof.-Sandeep kumar
Constitution of India & Professional Ethics	Prof.Sanjukumar
Green Buildings	Dr.Manoj kumar
Universal Human Values	Prof. Sunil Birkur
Additional Mathematics - II	Prof. Diliplumar K
Inter/Intra Institutional Internship	Prof. Parushuram Lokre

Shaw
PRINCIPAL

Guru Nanak Dev Engg. College, Bidar



Signature of *Shaw* Timetable Co-Ordinator

Signature *Shaw*

Department of Civil Engineering



GURU NANAK DEV ENGINEERING COLLEGE, BIDAR
DEPARTMENT OF CIVIL ENGINEERING

ACA/R / 03
ReV: 00
Date: 01.02.2016

Remedial Classes

Academic Year: 2021-22
Semester: EVEN

Date: 30/05/2022

Remedial Classes – TIME TABLE

DAY	SEMESTER	
	VI	VIII
MONDAY	DSS (5-6PM)	PSC (10-11AM)
TUESDAY	AGT (5-6PM)	PD (10-11AM)
WEDNESDAY	HI (5-6PM)	-
THURSDAY	RHT (5-6PM)	-
FRIDAY	-	-
SATURDAY	-	-

COURSE	COURSE TEACHER	COURSE	COURSE TEACHER
DSS	MS / USY	PSC	MVK / VP
AGT	VV	PD	SB / BK
HI	PMS / RJ		
RHT	SKB / PB		

Sandeep

Co-ordinator (TT)

To,

1. Notice Board
2. All Class Coordinator.



Ss
HOD 30/5/22

Department of Civil Engineering
GNDEC-BIDAR.

Sharma
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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

ACA/R / 23	Department of Civil Engineering	Academic Year: 21-22
Rev: 00		Semester / section: VI-B
Date: 01.02.2016		Subject: H4IE

Details of Remedial Classes conducted

Sl. No.	Date	Time		Topics	Remarks
		From	To		
01				Students who scored less than 50% marks in CIE-1, were listed & Remedial classes were taken according to timetable → please see overleaf.	
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					

i) Any amendments to the lesson planning required.

ii) Any other points

Signature of Faculty
Date:.....

29/4/22



Signature of Faculty
Date:.....
Department of Civil Engineering
GNDEC-BIDAR.

GURU NANAK DEV ENGINEERING COLLEGE, BIDAR
DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2021-22

COURSE : H&IE (18CV63)

VI SEMESTER

LIST OF STUDENTS WHO HAVE SCORED LESS THAN 60% IN CIE 1

Sl.No	Name of the Students	USN	CIE - 1 (50)	CIE - 1 (30)
1	AFFAN SHOEB	3GN18CV008		0
2	ALLEN JOSHUA	3GN18CV014		0
3	MD ZUBER	3GN18CV053		0
4	MUSTAFA KHAN	3GN18CV069		0
5	VENKATESH	3GN18CV115		0
6	ABHISHEK	3GN19CV001		0
7	GURU MAYUM NIRVAS	3GN19CV019		0
8	RAVIKUMAR	3GN19CV060		0
9	SALOMAN	3GN19CV062		0
10	SANKET DHUMMANSUR	3GN19CV063		0
11	VIVEK ROSHAN NANDA	3GN19CV084		0
12	STEVEN	3GN20CV415		0
13	MOHAMMED TALHA AH	3GN18CV063	7	4.2
14	ARUN S.KABA	3GN19CV011	8	4.8
15	NIKHIL CH	3GN18CV073	9	5.4
16	DIKSHA SINGODE	3GN18CV026	10	6
17	GURURAJ	3GN18CV033	10	6
18	MOHD IMADUDDIN	3GN18CV067	10	6
19	VIVEK	3GN19CV083	10	6
20	DEEPAK	3GN18CV025	16	9.6
21	ULLAS	3GN19CV078	25	15
22	AMIT	3GN18CV016	27	16.2
23	MOHAMMED MIFTAH U	3GN18CV058	27	16.2
24	PRATHVIRAJ	3GN18CV079	28	16.8

Rajy
 30/5/22
 COURSE TEACHER

30/5
 HOD

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 GNDCE-BIDAR.



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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR
DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2021-22

COURSE : H&IE (18CV63)

VI SEMESTER

remedial class attendance

Sl.No	Name of the Students	USN	1/6	8/6	8/6		
1	AFFAN SHOEB	3GN18CV008	-	-	-		
2	ALLEN JOSHUA	3GN18CV014	-	-	-		
3	MD ZUBER	3GN18CV053	-	-	-		
4	MUSTAFA KHAN	3GN18CV069	-	1	2		
5	VENKATESH	3GN18CV115	-	-	-		
6	ABHISHEK	3GN19CV001	1	2	3		
7	GURU MAYUM NIRVAS	3GN19CV019	1	2	3		
8	RAVIKUMAR	3GN19CV060	-	-	-		
9	SALOMAN	3GN19CV062	1	2	3		
10	SANKET DHUMMANSUR	3GN19CV063	-	-	-		
11	VIVEK ROSHAN NANDA	3GN19CV084	1	2	3		
12	STEVEN	3GN20CV415	1	2	3		
13	MOHAMMED TALHA AH	3GN18CV063	-	1	2		
14	ARUN S.KABA	3GN19CV011	1	2	3		
15	NIKHIL CH	3GN18CV073	1	2	3		
16	DIKSHA SINGODE	3GN18CV026	1	2	3		
17	GURURAJ	3GN18CV033	1	2	3		
18	MOHD IMADUDDIN	3GN18CV067	1	2	3		
19	VIVEK	3GN19CV083	1	2	3		
20	DEEPAK	3GN18CV025	1	2	3		
21	ULLAS	3GN19CV078	1	2	3		
22	AMIT	3GN18CV016	1	2	3		
23	MOHAMMED MIFTAH U	3GN18CV058	1	2	3		
24	PRATHVIRAJ	3GN18CV079	1	2	3		


 COURSE TEACHER


 HOD




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Guru Nanak Dev Engineering College, Bidar

ACA/R / 24

Rev: 00

Date: 01.02.2016

Department of Civil Engineering

Details of Make Up classes

Academic Year: 2018-19

Semester / section: VA

Subject: RSFCU 150561

Details of Make Up classes conducted

Sl. No.	Date	Time		Topics	Remarks
		From	To		
01	20-11-18	4.00	5.00	Location Based services & applications	
02					
03					
04					
05					
06					

i) Any amendments to the lesson planning required.

— No —

ii) Any other points

— No —

Signature of Faculty

Date: 20/11/18



Signature of HOD

Date:

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GNDEC-BIDAR.

Shawar

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

NO.GNDECB/NOTICE/FB/2021-22/

Date: 21-11-22

NOTICE

All HOD's are hereby informed that **Online Mid-Semester Student Feedback Process for 5 semester students is completed**. The results of the feedback are enclosed for further action and future reference. If any staff is found with Grade 'B', send the feedback analysis report to the undersigned of concern staff on or before 01-12-2022.

Shauz
Principal

To,

1. All HODs(CSE,ISE,CVE,ECE,EEE,ME) for necessary information and action.

Copy to :

- 1) The Hon'ble Chairman for kind information.
- 2) The Hon'ble Vice Chairperson for her kind information



Shauz

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GURU NANAK DEV ENGINEERING COLLEGE BIDAR

Mailoor Road, Bidar - 585403 (Karnataka)

Affiliated to Visvesvaraya Technological University, Belgaum

Approved by AICTE, New Delhi

ISO Certified Institute ISO 9001/2015



STAFF-SUBJECT MAPPING

CVE Department

S.NO.	STAFF_ID.	NAME OF STAFF	BRANCH	SEMESTER	SECTION	SUBCODE
1	3018	PROF. RAJINI.S.S	CVE	FIVE	A	18CV51 CVE FIVE A
2	3019	PROF. VIVEKANAND	CVE	FIVE	A	18CV52 CVE FIVE A
3	3020	PROF. MALLIKARJUN VK	CVE	FIVE	A	18CV53 CVE FIVE A
4	3021	PROF. UMASHANKAR	CVE	FIVE	A	18CV54 CVE FIVE A
5	3022	DR.B.B.KORII	CVE	FIVE	A	18CV55 CVE FIVE A
6	3023	PROF. SUNIL B	CVE	FIVE	A	18CV56 CVE FIVE A
7	3024	PROF. RAJINI.S.S	CVE	FIVE	A	18CIV59 CVE FIVE A

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Affiliated to Visvesvaraya Technological University, Belgaum

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STAFF EVALUATION SYSTEM RESULTS

MID Semester Feedback Details: CVE

Date 18/11/2022
Time 11:59:20am
Department: CVE
Semester: FIVE
AY: 2022-23

SL. NO.	STAFF ID	NAME OF STAFF	SUBJECT	SEM	SECTION	AVERAGE	GRADE
1	3017	PROF. RAJINI.S.S	18CIV59	FIVE	A	92.00%	A
2	3011	PROF. RAJINI.S.S	18CV51	FIVE	A	93.00%	A
3	3012	PROF. VIVEKANAND	18CV52	FIVE	A	87.00%	A
4	3013	PROF. BIRADAR PRAVEEN	18CV53	FIVE	A	88.00%	A
5	3014	PROF. UMASHANKAR	18CV54	FIVE	A	95.00%	A
6	3015	DR. B.B. KORI	18CV55	FIVE	A	92.00%	A
7	3016	PROF. SUNIL BIRKUR	18CV56	FIVE	A	94.00%	A
Online feedback I/C 				 Dr. Dhananjay Maktedar Principal PRINCIPAL Guru Nanak Dev Engg. College BIDAR			


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STAFF EVALUATION SYSTEM RESULTS

CVE Department: MID Semester Feedback Analysis

Date 18/11/2022 Time 12:01:00pm Department/Cycle: CVE Semester: ALL Academic year: 2022-23

1. Planning and Organisation

- 1.1 Teacher comes to the class on time
- 1.2 Aims / Objectives are made clear to students in the beginning
- 1.3 Teaching is well planned as per syllabus & time available
- 1.4 Teacher come well prepared in the subjects
- 1.5 Organizes the topics of syllabus in logical sequence

2. Presentation / Communication

- 2.1 Teacher speaks clearly and audibly
- 2.2 Teacher writes and draws sketches legibly
- 2.3 Teacher provides examples of concepts principles
- 2.4 Teacher pace & levels of instructions are suited to the students
- 2.5 Teacher offers assistance & counseling to the needy students

3. Student Participation

- 3.1 Teacher asks questions to promote interaction and effective thinking
- 3.2 Teacher encourages questioning/raising doubts by students and answers them well
- 3.3 Teacher ensures learning activity and problem solving ability in class
- 3.4 Teacher encourages, compliments and praises originality and creativity by the students
- 3.5 Teacher is courteous and impartial in dealing with students

4. Class Management/Assesement of the Students

- 4.1 Teacher engages classes regularly and maintains discipline
- 4.2 Teacher covers the syllabus completely at appropriate pace
- 4.3 Teacher balances syllabus for 3 unit tests as per time available
- 4.4 Teacher evaluation of the blue books is fair and impartial
- 4.5 Teacher is prompt in evaluating & returning the answer scripts

S.NO.	SID.	NAME OF STAFF	SUBJECT	1.1	1.2	1.3	1.4	1.5	2.1	2.2	2.3	2.4	2.5	3.1	3.2	3.3	3.4	3.5	4.1	4.2	4.3	4.4	4.5
1	3017	PROF. RAJINI.S.S	18CIV59 CVE FIVE A	9.7	9.0	9.8	9.0	9.0	9.1	9.5	9.1	9.3	9.0	9.2	9.3	9.3	9.1	9.4	9.1	9.2	9.1	9.2	9.1
2	3011	PROF. RAJINI.S.S	18CV51 CVE FIVE A	9.7	9.0	9.8	9.0	9.5	9.1	9.5	9.0	9.3	9.1	9.2	9.3	9.5	9.3	9.1	9.3	9.4	9.1	9.3	9.3
3	3012	PROF. VIVEKANAND	18CV52 CVE FIVE A	9.5	8.4	9.0	8.3	9.4	7.7	8.9	8.1	8.5	8.6	8.6	8.9	8.5	8.9	8.2	8.7	8.9	8.7	9.0	8.7
4	3013	PROF. BIRADAR PRAVEEN	18CV53 CVE FIVE A	9.5	8.5	9.4	8.5	8.9	8.6	8.9	8.3	8.9	8.5	8.9	9.1	8.7	8.8	8.7	8.6	9.0	8.7	8.6	9.0
5	3014	PROF. UMASHANKAR	18CV54 CVE FIVE A	9.9	9.2	9.7	9.2	9.8	9.4	9.6	9.5	9.6	9.3	9.7	9.5	9.6	9.4	9.3	9.3	9.5	9.4	9.5	9.3
6	3015	DR. B.B. KORI	18CV55 CVE FIVE A	9.7	9.0	9.6	9.0	9.3	9.0	9.5	8.9	9.2	8.9	9.4	9.3	9.2	9.2	9.4	9.2	9.2	9.1	9.3	9.2
7	3016	PROF. SUNIL BIRKUR	18CV56 CVE FIVE A	9.8	9.3	9.8	9.2	9.5	9.4	9.6	9.1	9.5	9.4	9.3	9.5	9.3	9.4	9.5	9.4	9.4	9.2	9.4	9.3

Online feedback I/C

Conced

Principal

Dr. Uthanasayy Malleshwar
Principal
Guru Nanak Dev Engg. College
BIDAR

Shawar

PRINCIPAL

SS

HOD

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Department of Civil Engineering
GNDEC-BIDAR.





GURUKUL NANK DEV ENGINEERING COLLEGE, BIDAR
DEPARTMENT OF CIVIL ENGINEERING

Implemented innovative methods in teaching and learning 2021-2022.

Sl.no	Name of Faculty	Name of Course	Topic Name	Pedagogical Methodology Implemented	Outcome
1	Dr.B.B Kori	Municipal wastewater engineering	Self-Purification of streams, oxygen sag curve	Flipped Classroom	Quality of student working individual and team was enhanced
			Sewage Treatment Plant	Reconstruction of lecture by students	Students are motivated and more attentive
2	Dr. Pradeep Kumar Singa	Engineering Geology	Properties of minerals	Reconstruction of lecture by students	Students are motivated and more attentive
		Air pollution Control	Gaussian -Dispersion Model	Teaching through research papers	Students develop habit to refer reputed journals and develop understanding skills
			Global-Episodes	Reconstruction of lecture by students	Students are motivated and more attentive
3	Dr.Nagraj RG	Construction Management & Entrepreneurship	Work Breakdown Structure	Teaching through charts.	It gives Analytical Approach.
4	Sunil Kumar Birkur	Highway Engineering	Specification and construction of WBM and WMM Layer	Peer-Peer Teaching	Active learning along with interpersonal skills.
		Basic Surveying	Plane table surveying	Instrument Based	Student has better visualization and understanding and also usage and handling of

Shan

PROFESSOR

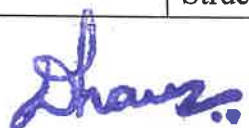
Bidar

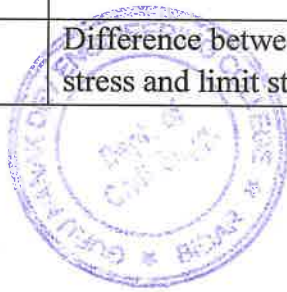




GURU NANAK DEV ENGINEERING COLLEGE, BIDAR
DEPARTMENT OF CIVIL ENGINEERING

					instruments.
5	Vishal Kumar S.D	Analysis of Indeterminate Structures	Analysis of Portal frame using MDM	Peer-Group Learning	Build and Active and cooperative learning environment
6	Uma Shankar Yaligar	Design of RCC and Steel Structures.	Retaining Wall, Roof Truss, Plate Girder.	Teaching through Models.	students to focus on the subject through models
		Strength of Materials			
7	Rajani S.S	Municipal wastewater engineering	Self Purification of streams,oxygen sag curve	Flipped Classromm	Quality of student working individual and team was enhanced
			Sewage Treatment Plant	Reconstruction of lecture by students	Students are motivated and more attentive
8	Shivashankar B.C	Fluid Mechanics	Hydrostatic Paradox	Teaching through charts	It gives Analytical Approach.
9	Sandeep Kumar	Building Material and construction	Types of Lintels and arches	Flipped Class room	Quality of student working individual and team was enhanced
		Basic Geotechnical Engineering	Compaction	Open Book Test	Improved thinking ability
10	Mallikarjun V.K	Design of RC Structural	Difference between working stress and limit state method	Think Pair Share	It teaches students to share ideas with class mates and


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DEPARTMENT OF CIVIL ENGINEERING

		Elements			build oral communication
		Basic Surveying	Plane table surveying	Instrument Based	Student has better visualization and understanding and also usage and handling of instruments.
11	Puneeth Kumar	Air pollution Control	Gaussian -Dispersion Model	Teaching through research papers	Students develop habit to refer reputed journals and develop understanding skills
12	Baswakumar	Urban Transport Planning	Chart Preparation for Traffic Movements at Junction	Teaching through charts	It gives Analytical Approach.
13	Vishwanath	Basic Geotechnical Engineering	Standard Proctor Test and Direct Shear Test	Practical Based learning	Provides Perfection to the students in all aspects of learning
		Quantity survey and contract Management	Quantity estimation of buildings	Computer based learning	Encourage students to understand multiple perspectives.
14	Amar R.D	Quantity survey and contract Management	Quantity estimation of buildings	Computer based learning	Encourage students to understand multiple perspectives.
15	Mr. Manish Srivastava	Design of RCC and Steel Structures.	Retaining Wall, Roof Truss, Plate Girder.	Teaching through Models.	Students to focus on the subject through models
		Construction Management & Entrepreneurship	Work Breakdown Structure	Teaching through charts.	It gives Analytical Approach.

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR
DEPARTMENT OF CIVIL ENGINEERING

16	Vishal Patil	Building Material and construction	Doors, Staircase, and Roof Truss	Model Based Learning	Identifying and Analyzing engineering problems
		Fluid Mechanics	Fluid Kinematics and Dynamics	Self learning through Youtube videos and Virtual Lab	Better visualization and understanding
17	Mr. Vivekanand Aloji	Analysis of Indeterminate Structures	Analysis of Portal frame using MDM	Peer-Group Learning	Build and Active and cooperative learning environment
18	Mr. Biradar Praveen	Engineering Geology	Properties of minerals	Reconstruction of lecture by students	Students are motivated and more attentive
		Design of RC Structural Elements	Difference between working stress and limit state method	Think Pair Share	It teaches students to share ideas with class mates and build oral communication
19	Channapareddy	Strength of materials	Element Subjected to general Two dimensional stress system	Think Pair Share	It teaches students to share ideas with class mates and build oral communication
		Highway Engineering	Specification and construction of WBM and WMM Layer	Peer-Peer Teaching	Active learning along with interpersonal skills.


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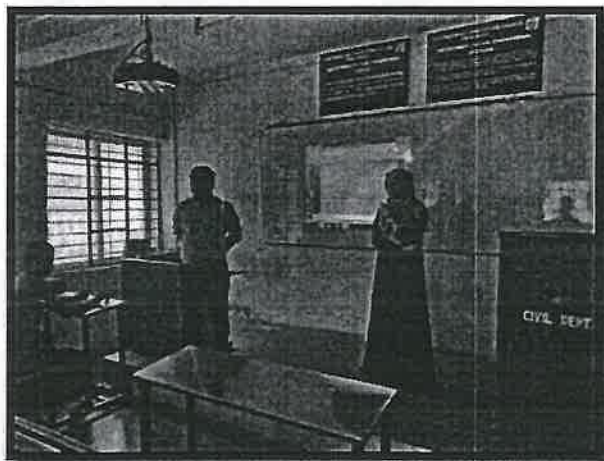
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Department of Civil Engineering

Innovative Teaching Method – FLIPPED CLASS ROOM

Academic Year: 2021-22

Name of Faculty: Dr. B. B KORI
COURSE: Municipal wastewater engineering
COURSE CODE: 18CV55

Topic: Self purification of streams, Oxygen sag curve.



Methodology of the practice with steps involved in implementing the practice;

1. Information is loaded into in any of the ICT form.
2. Students are informed to go through the notes loaded in the online ICT tool during out of class timing (home).
3. Facilitation and Assessment activities are performed in the real class room to get active involvement of the students.
4. Student centric learning will be achieved.

Impact of Practice:

- Active student learning tool.
- Collaborative learning environment.
- Yield better result in learning activities.

Outcome:

- Interactive learning classroom.
- The quality of student working as individual and team was enhanced.
- Communicated effectively.
- Higher learning achievement
- Time saving practice.


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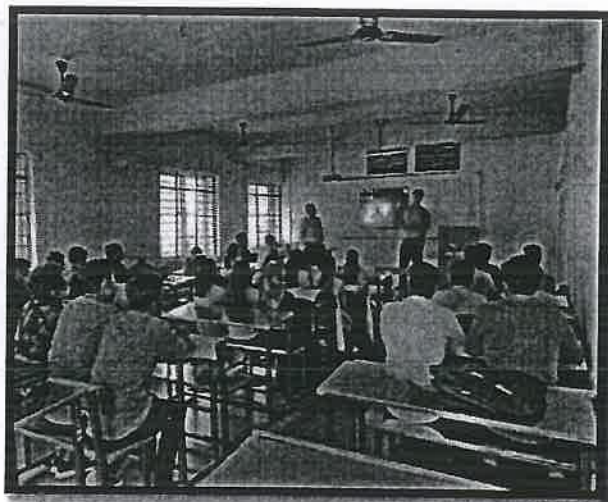
Innovative Teaching Method –RECONSTRUCTION OF THE LECTURE BY STUDENTS

Academic Year: 2021-22

Name of Faculty: Dr. B. B KORI
COURSE: Municipal wastewater engineering
COURSE CODE: 18CV55

Topic: Sewage Treatment Plant

RECONSTRUCTION OF THE LECTURE BY STUDENTS: Delivering lecture during first half of the class without permitting students to take notes. Subsequently, about 5 minutes given to students for recollection. Small groups of students are formed and asked to reconstruct the core concept of the lecture with supplementary points. This is a process, which makes the students attempt to reproduce the initial lecture. Student groups are guided on the practical difficulties and problems during reconstruction.



Method

1. Faculty member once after recapping the previous class first 5 minutes, delivering the lecture about sewage treatment plant and various units involved in it during first half an hour of class without permitting students to take notes. Subsequently, about 5 minutes given to students for recollection.
2. Whole class is divided into small groups of students and asked to reconstruct the whole concept of the lecture with bullet points.
3. Each group of students makes an attempt to reproduce the lecture by delivering.
4. Student groups are guided on the practical difficulties and problems during reconstruction.

Overall summary of Discussion

The various treatment units which are generally involved in treating various wastewater having different characteristics.


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Department of Civil Engineering

IMPACT OF PRACTICE:

1. Student's interest level is increased.
2. Students found this kind of learning to be more engaging.
3. Better discipline among the students is visible.
4. Improvements in the comprehension of the concept by the students of the topics covered.

Outcome of the Practice may be recorded:

1. Students are motivated to be more attentive since they are asked to reconstruct the lecture who otherwise may simply take notes with lack of concentration.
2. This provides an opportunity to the students to brain storm the topic covered.
3. This method is helpful for those students who hesitate to ask their doubts during teaching sessions.


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INNOVATIVE TEACHNG METHOD
RECONSTRUCTION OF LECTURE BY STUDENTS

Prof. Dr. P M SINGA & Mr. Biradar Praveen

SUBJECT-ENGINEERING GEOLOGY (18CV36)
SEM-III A&B

AY:2021-2022


DEMONSTRATION


AIM-To understand the Properties and Uses of Minerals.

DESCRIPTION-Various minerals were shown to students in class physically and mineral properties and their uses in civil engineering practices were briefly explained. Identification of minerals by their physical properties were shown to students. Different types of minerals were given students and asked to examine about its properties and asked to identify minerals.

OUTCOME-

1. To get an understanding about the identification of minerals physically.
2. To classify the minerals based on its properties
3. To identify the minerals based on its appearances.


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GEOLOGICAL TIME SCALE

ERAS (Million years ago)	PERIODS	GEOLOGICAL FEATURES	TRENDS IN EVOLUTION		
			PLANTS	INVERTEBRATES	ANIMALS VERTEBRATES
CENOZOIC (70)	QUATERNARY (2) Recent (0.01) Pleistocene (2)	Periodic Glaciation	Dominance of Herba- cious plants.		Dominance of Man.
	TERTIARY (60) Pliocene (10) Miocene (25) Oligocene (35) Eocene (55) Paleocene (70)	Climate warm in the beginning but gradu- ally cooling. Formation of Alps & Himalayas.	Development & spread of modern flowering plants. Rise of Grasses. Rise of Herbs.	Arthropods & Mollusks abundant. Appearance of Modern Invertebrate Types.	First Men. Extinction of Archaic Mammals. Rise of Anthropoids & Spread of Modern Mammals.
MESOZOIC (230)	CRETACEOUS (135)	Great swamps in early part. Rocky Mountains & Andes formed. In the late part of the period.	Rapid development of Angiosperms.	Extinction of Ammonites. Spread of Insects.	Extinction of Dinosa- urs. Spread of Birds. Rise of primitive Mammals.
	JURASSIC (180)	Great Continental Seas in western U.S. & parts of Europe.	Dominance of Conifers and Cycads. First Angiosperms.	Ammonites maximum. Insects dominant.	Dominance of Dinosaur- like First Birds. Early Mammals.
	TRIASSIC (230)	Warm climate. Great Desert areas.	Spread of Cycads & Conifers. Disappear- ance of seed Ferns.	Limulus found. Decline of marine invertebrates.	First Dinosaurs. Mammal-like Reptiles.
PALEOZOIC (600)	PERMIAN (280)	Appalachians & Urals formed. Glaciation and Aridity.	First Cycads and Conifers.	Last of Trilobites. Ex- pansion of Ammonites.	Expansion of Reptiles.
	PENNSYLVANIAN (320)	Mountain building. Great Coal Swamps.	Extensive coal formations in swamp forests.	First Insect Fossils.	First Reptiles.
	MISSISSIPPIAN (345)	Warm humid climate. Shallow inland seas.	Dominance of Lycop- ods, Horse-tails and seed Ferns. First coal deposits.	Culmination of Crinoids.	Spread of Sharks. Rise of Amphibians.
	DEVONIAN (405)	Emergence of Land. Some Arid regions.	Lycopods, Horse-tails, Ferns, seed Ferns. First forests. Algal mem- bers in plenty.	Brachiopods flourish- ing. Decline of Trilo- bites.	First Amphibians. First Fishes.
	SILURIAN (425)	Mild climate. Great inland seas. Taconic Mountains.	Origin of land plants, psilopods. Dominance of Algae, mostly Cal- careous Algae.	Corals, Brachiopods, Eurypterids. First land invertebrates. Ancon- ids, Scorpions and Spiders (airbreathers).	Rise of Osteichthym (primitive fishes).
	ORDOVICIAN (500)	Great submergence of land. Mild in Arctic regions.	Dominance of Marine and Green Algae.	Climax of Trilobites. Cephalopods. Brachio- pods, Bryozoans, Cor- als and Starfishes.	First Vertebrates. Armoured Fishes.
	CAMBRIAN (600)	Mild climate. Lowlands and inland seas.	Origin of Algae, espe- cially marine forms.	Many invertebrate groups. Trilobites Dom- inant. Brachiopods.	
PROTEROZOIC (1200)		Rocks chiefly sedimentary. Glaciation. Grand Canyon.	Blue Green Algae and Bacteria.	Few Fossils. (Sponges, Protozoa, Trilobites, worm burrows). Most invertebrate phyla probably evolved.	
ARCHEOZOIC (3000)		Few sedimentary rocks. rocks mostly igneous or metamorphosed.	Organisms were prob- ably very simple & unicellular.	Indirect evidence of life from Graphite and Limestone, but no recognizable Fossils.	
PRECAMBRIAN (4500)		Igneous rocks.	No life present.		No life present.

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Fig : Geological Time Scale


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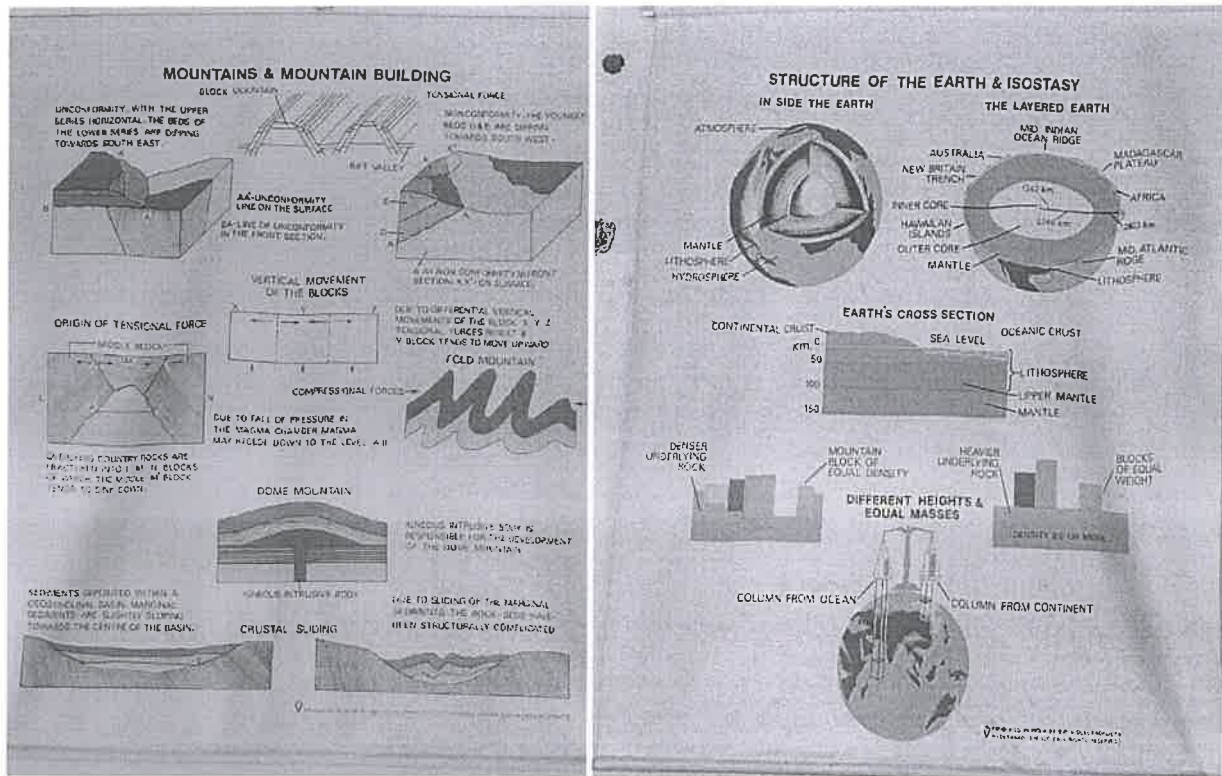


Fig :- Mountains & mountain building , structure of the earth and Isostasy and its section



Demonstration by students

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Department of Civil Engineering

Innovative Teaching Method – Teaching Through Research Papers

Academic Year– 2021-22

Semester VII

Name of Faculty – Dr. Pradeep KumarSinga

Name of Subject: –Air Pollution and Control (18CV732)

Topic: Gaussian Dispersion Model

Aim: To inculcate self-learning in the students.

Description: All the students of the class were divided into 5 groups, each group consisting of 10 members. Each of the group was assigned with the same topic as mentioned. Students were given sufficient time to prepare the subject by referring to various indexed journals. All the groups presented the topic in the classroom and queries were asked by students and further all the doubts were discussed and resolved with the help of the course teacher.

Overall summary of discussion: Gaussian Dispersion Model

1. Development of air quality models and compare with Gaussian model
2. Air Quality Monitoring by Gaussian Dispersion Model

Significant results observed– It was observed with students were in position to understand the latest developments in the subject and learn additional concepts required to understand the subject better.

Outcome:

- Students developed reasoning ability through contextual knowledge gained.
- Students understood the impact of the professional engineering solutions in societal and environmental contexts.
- The quality of student working as individual and team was enhanced.
- Communicated effectively on engineering activities.

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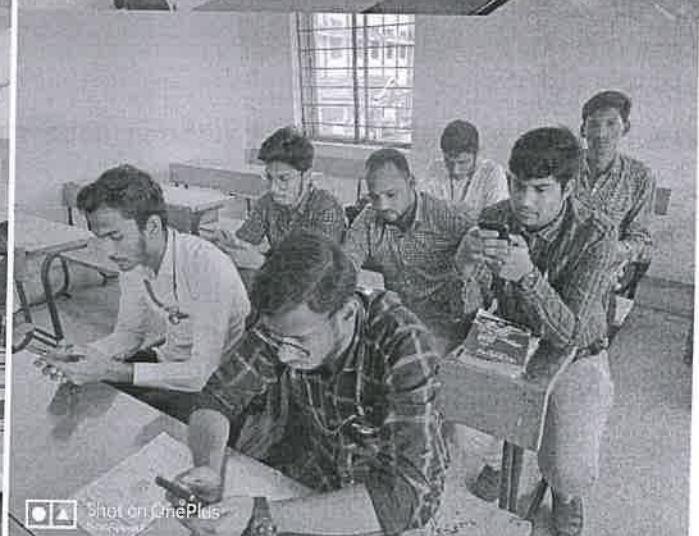
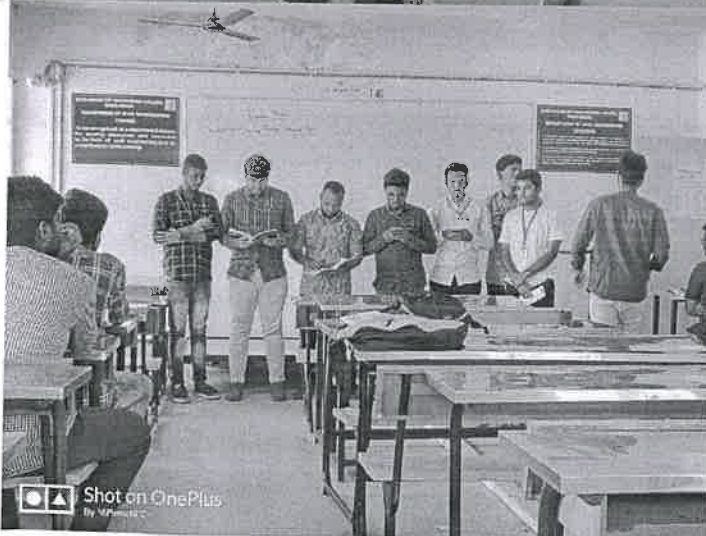
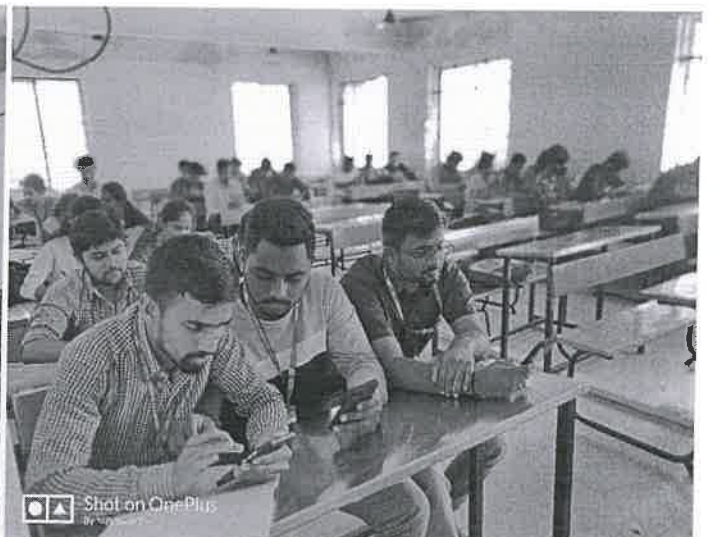


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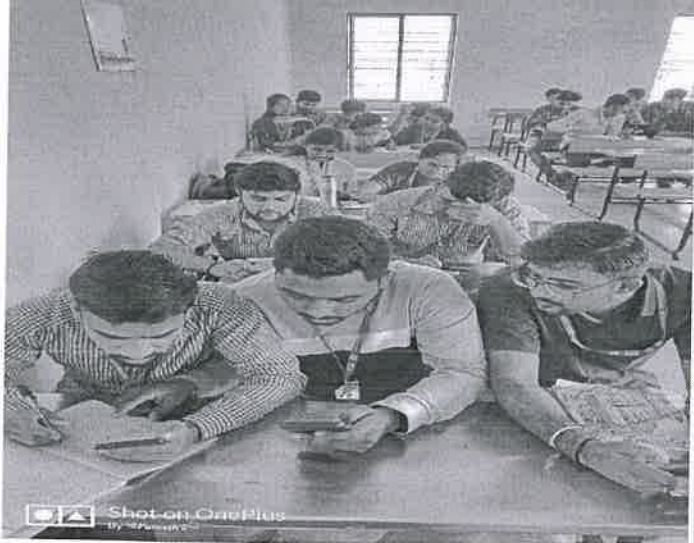


Fig :Teaching Through Research Papers (Air Pollution and Control)for 7th semester

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Department of Civil Engineering

Innovative Teaching Method – Reconstruction of the lecture by students

Academic Year– 2021-22

Semester VII

Name of Faculty – Dr. Pradeep KumarSinga

Name of Subject: –Air Pollution and Control(18CV732)

Topic: Global Episodes

Methodology of the practice with steps involved in implementing the practice

Delivering lecture during first half of the class without permitting students to take notes. Subsequently, about 5 minutes given to students for recollection. Small groups of students are formed and asked to reconstruct the core concept of the lecture with supplementary points. In this process, making the students attempt to reproduce the initial lecture. Student groups are guided on the practical difficulties and problems during reconstruction.

Impact of practice / evidence of success:

Better discipline among the students is visible. Improvements in the comprehension of the concept by the students of the topics covered.

Benefit or outcome of the Practice may be recorded

Students are motivated to be more attentive since they are asked to reconstruct the lecture who otherwise may simply take notes with lack of concentration. This provides an opportunity to the students to brain storm the topic covered.


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ACA/R / 06	Department of Civil Engineering	Academic Year: 2022-2023 odd
Rev : 00		
Date: 01.02.2016	IAT Time-table	Test No3

CIRCULAR

11/12/2022

All the faculty members are hereby informed to prepare the question paper. The question must be mapped with appropriate CO and PO as per NBA. The following points must be considered for the preparation of Question Paper and submit to the undersigned on or before 17/12/2021.

1. The paper must be submitted in the format Enclosed.
2. The Syllabus for III- CIE is 4 Module 1/3rd 5 Module full.
3. The options must be given for each questions
4. The Question paper must be approved from the PAC
5. The Question papers with required no of copies must be submitted to CIE Coordinator 3 days before the commencement of the CIE Test.


CIE Coordinator


HOD(CIVIL)

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GURU NANAK DEV ENGINEERING COLLEGE

ACA/R / 46

Department of Civil Engineering

Academic Year: 2022-2023

Rev : 00

Semester: VII

Date: 01.02.2016

Section: A & B

Test No: III

CIE-1 Question paper

Subject: (18CV72) DRSS

Duration: 90 min

Max. Marks: 50

NOTE: 1. Answer any TWO full questions.

2. IS456:2000 is permitted, IS800:2007 Permitted with steel table

Question No	Question Statement	BTL	CO	Marks
Q1.	Design a welded plate girder for an effective span of 18m to support a UDL of 60kN/m addition to a pair of point loads of magnitude 600kN each at one third span. Design the central section, bearing stiffeners, intermediate stiffener and its connections.	L6	3	12.5
OR				
Q2	Design a welded plate girder for an effective span of 36 m carrying imposed load of 50kN/m and two concentrated loads of 400 kN each at placed at distance of 9m span. Assume girder laterally support throughout and yield strength 250 Mpa. Provide two curtailments.	L6	3	12.5
Q3	Design a simply supported Gantry girder to carry operated crane with the following details 1. Span of crane bridge = 6 m. 2. Span of crane girder = 15 m. 3. Wheel base = 3.5 m. 4. Crane capacity = 200 kN. 5. Weight of crane bridge = 150 kN. 6. Weight of trolley = 75 kN. 7. Minimum hook approach = 1.0 m. 8. Weight of rail = 0.3 kN/m. 9. Distance between wheels = 3.5m c/c	L6	4	37.5
OR				

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR
CIVIL ENGINEERING DEPARTMENT

ACA/R / 46

Rev : 00

Date:

Test No: 03

Duration : 90 mins

Department of Civil engineering

SCHEME OF VALUATION

Academic Year: 2022-23

Semester: VII

Section: A & B

Subject: DRCS

Max.marks: 50

Q. No	Solution	Marks
Q 1	<p><u>Step 1: Design of cross section of mid span</u></p> <p>(a) Calculation of Load = 12 kN/m.</p> <p>(b) Calculation of S.F & BM</p> <p>S.F = 1632 kN $V_u = 2464 \text{ kN}$</p> <p>BM = 13558 kNm. $M_u = 20337 \text{ kNm}$</p> <p>i) <u>cls of girder</u></p> <p>i) Web dimension = $6.0 \text{ mm} < t_w < 25 \text{ mm}$ $= 2280 \text{ mm} \times 16 \text{ mm}$</p> <p>ii) Flange dimension = $b_f \times t_f = 760 \text{ mm} \times 90 \text{ mm}$</p> <p>iii) Section classification - Table 2 - IS 800: 2007</p> <p>iv) Check for moment resistance = $M_d = 21400 \text{ kNm}$</p> <p>v) Check for shear resistance =</p> <p>a) <u>Simple post critical method</u></p> <p>IS 800: 2007 cl. 8.6.1.2.</p> <p>$V_n = V_{cx} = A_v \tau_{cb}$</p> <p>$\phi_d = 1.5$</p>	<p>4</p> <p>4</p> <p>4.5</p>

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Q. No	Solution	Marks
83 :-	<p><u>Step 1</u>: Calculation of Maximum Wheel load. $= 236.02 \text{ kN}$</p> <p><u>Step 2</u>: Determine max. B.M. $M_2 = 442 \text{ kNm}$</p> <p><u>Step 3</u>: Calculation of max. S.F. $V_1 = 412 \text{ kN}$</p> <p><u>Step 4</u>: Determination of Lateral force. Max. B.M. = 132 kNm. Max S.F. = 12.2 kN</p> <p><u>Step 5</u>: Determine Plastic Section Modulus. ISWB 500 and ISMC 300. @ 12122 (Area) @ 4564 (Area) \therefore Section properties are taken from Steel Code Book.</p> <p>Plastic modulus of section =</p> <p><u>Step 6</u>: Classification of section. Table 2 \rightarrow IS 800:2007 \therefore It should be done for both Channel and I-section.</p>	16M

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Q. No	Solution	Marks
	<p><u>Step 10</u> : <u>check for biaxial bending</u></p> $\frac{M_x}{M_{dx}} + \frac{M_y}{M_{dy}} = 0.89 < 1.0$ <p><u>Step 11</u> <u>check for shear capacity</u></p> $V_u \leq 0.6 V_d$ $380 \text{ kN} < 390 \text{ kN}$ <p><u>Step 12</u> : <u>check for web buckling under wheel loads</u></p> $= (b_1 + n_1) \text{ tw fed.}$ $= 290 \text{ kN} > 237 \text{ kN}$ <p><u>Step 13</u> : <u>check for deflection</u></p> $\delta = \frac{W a^3}{6 E I} \times \left(\frac{3a}{4L} - \frac{a^3}{L^3} \right)$ $\delta = 5.90 \text{ mm}$ <p>permissible deflection = 12 mm > 5.90 mm safe.</p> <p><u>Step 14</u> : <u>Design of connection</u></p> $P_w = \frac{1}{2} \left(\frac{V A \bar{Y}}{I_x} \right) \quad P_w = 208 \text{ N/mm}$ $P_{aw} = 402 \text{ N/mm}$ <p>provide 3mm size of fillet weld for making connection of channel with top flange of I-section.</p>	<p>5.5</p> <p>37.5M</p>

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Q. No	Solution	Marks
Q4)	<p><u>Step 1</u>: calculation of max. wheel load. $= 245 \text{ kN}$</p> <p><u>Step 2</u>: Determine max B.M. $M_2 = 685 \text{ kNm}$</p> <p><u>Step 3</u>: calculate Max. S.F $V_u = 445 \text{ kN}$</p> <p><u>Step 4</u>: Determine Lateral forces. $M_y = 22 \text{ kNm}$</p> <p><u>Step 5</u>: plastic section modulus. $I_s \text{ WB } 600 @ 14.23.4 \text{ N/m}$ $I_s \text{ MC } 300 @ 351.2 \text{ N/m}$ $Z_{p2} = 5141.89 \times 10^3 \text{ mm}^3 > 3786.38 \times 10^3 \text{ mm}^3$</p> <p><u>Step 6</u>: classification of section. Table 2: IS 800: 2007 \rightarrow 12 \therefore for both channel & I-section.</p> <p><u>Step 7</u>: Check for moment capacity. $M_{d2} = 1200 \text{ kNm}$</p> <p><u>Step 8</u>: Check for Local moment capacity. $\frac{M_2}{M_{d2}} + \frac{M_y}{M_{dy}} \leq 1.0$ $M_{dy} = 195.61 \text{ kNm}$</p>	16M.

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Q. No	Solution	Marks
	<p><u>Step 14: Design of Connections.</u></p> $q_w = \frac{1}{2} \left[\frac{V_{AY}}{I_z} \right] = 160 \text{ N/mm.}$ <p>Design strength weld = $P_{dw} = \frac{L_w t_u}{\sqrt{3} s_{mw}}$</p> $P_{dw} = 402 \text{ N/mm} > 160 \text{ N/mm}$ <p>Hence provide 3mm size of fillet weld. for making connection with channel I-section.</p>	<p>5.5</p> <hr/> <p>37.5%</p>

Signature of Course Teacher

Signature of HOD/PAC

Signature of Course Coordinator

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ACA/R / 06

Rev : 00

Date: 01.02.2016

Department of Civil Engineering

CIE TIME TABLE

Academic Year: 2022-2023 ODD

Test No:3

Date/Day	Time	Subject
28-12-2022 (Wednesday)	10:30AM 12:00PM	18CV71 (QSCM)
	03:00PM 04:30PM	18CV72 (DRSS)
29-12-2022 (Thursday)	10:00AM 11:30PM	18CV732(APC)
	03:00PM 04:30PM	18CV745 (UTP)
30-12-2022 (Friday)	10:00AM 11:30PM	18ME753 (IS)

CIE Coordinator

HOD(CIVIL)

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ಬೀದರ್ ಮೈಲಾರ ರಸ್ತೆ, ಬೀದರ್-ಜಲಜಲಂ.

Guru Nanak Dev Engineering College

BIDAR-585403. (Karnataka)

(Affiliated to Visvesvaraya Technological University, Belgaum)

CIVIL ENGINEERING DEPARTMENT

Academic Year : 2022-2023

Semester : ODD/EVEN

College Roll No.

Univ. Seat. No.

C E 0 3 / 2 0

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Semester : VIIth

C V A
Branch / Section

ಒಳ ಅಂಕಗಳ ದಾಖಲೆ ಪುಸ್ತಕ

Continuous Internal Evaluation Record Book

(CBCS SCHEME)

Subject : DRSE

Code : 18CV72

Name : Soundarya

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To be Retained by the Department till Three Years from
the date of announcement of the result by the University.

Shankar

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ಬೀದರ ಮೈಲೂರ ರಸ್ತೆ, ಬೀದರ-ಜಲಜಲಂಜಿ.
Guru Nanak Dev Engineering College
BIDAR-585403. (Karnataka)

(Affiliated to Visvesvaraya Technological University, Belgaum)
Academic Year : 2022-2023 Semester : ODD/EVEN

CIVIL ENGINEERING DEPARTMENT

College Roll No.

CE03/20

Univ. Seat. No.

3GN20CV414

Semester : VII

CV / Section

Subject : DRSS

Code : 18CV72

Name : Soundarya

For the staff use only

Signature of the Student :

Sl. No. of the Tests	Date	Max. Marks	Marks Obtained	Max. Marks	Marks Obtained	Initials
I	02/11/2022	50		30	26	
II	12/11/22	50		30	29	
III	18/12/22	50		30	30	
Average (a)				30	29	
Unit Test / Assignment (b)				10	10	
Total Marks (a+b)				40	39	

Average Marks Awarded

thirty nine

(In words)

39

(In Number)

Signature
with date

Teacher

H.O.D.

VITU Official

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GURU NANAK DEV ENGINEERING COLLEGE, BIDAR
DEPARTMENT OF CIVIL ENGINEERING
ROOM NO - 144
III CIE STUDENT ATTENDANCE LIST
VII SEM

Sub:- 18CV72

			Dates
			28-12-22
Sl.No	Name of students	USN	CIE 3
1	SAADULLAH KHAN	3GN19CV061	AB
2	SALOMAN	3GN19CV062	Saloman
3	SANKET	3GN19CV063	Sanket
4	SHASHIKUMAR H K	3GN19CV064	Shp
5	SHIVSHANKAR KHEDE	3GN19CV065	Shivshankar
6	SHUBHAM	3GN19CV066	Shubham
7	SHUBHAM	3GN19CV067	Shubham
8	SIDDHAROOD	3GN19CV068	Siddharood
9	SIRASGE AKSHATA	3GN19CV069	Sirasge
10	SOUNDARYA	3GN19CV070	Soundarya
11	SRIKANTH	3GN19CV071	S
12	SUSHMA	3GN19CV072	Sushma
13	SAYED AHMED HASHMI	3GN19CV073	Sayed Ahmed
14	SYED FATHEEN AHMED	3GN19CV074	Syed Fatheem
15	SYED MASOOD HUSSAIN	3GN19CV076	Syed Masood
16	SYED OMAR FAROOQ HUSSAIN	3GN19CV077	Syed Omar
17	ULLAS	3GN19CV078	Ullas
18	VANISHREE	3GN19CV079	Vanishree
19	VINOD GARAMPALLI	3GN19CV080	Vinod
20	VIPUL	3GN19CV081	Vipul
21	VISHNU KUMAR	3GN19CV082	Vishnu
22	VIVEK	3GN19CV083	Vivek
23	VIVEK ROSHAN NANDA	3GN19CV084	Vivek
24	PRANITA	3GN19CV085	Pranita
25	ANIL	3GN20CV401	Anil
26	BALAJI	3GN20CV402	Balaji
27	KRISHNA	3GN20CV405	Krishna
28	SHIVKUMAR	3GN20CV413	Shiv Kumar
29	STEVEN	3GN20CV415	Steven
30	SUNIL	3GN20CV416	Sunil
31	VENKATESH	3GN20CV418	Venkatesh
32	RAVIRAJ ARVIND MANE	3GN17CV067	Raviraj
33	SYED SHAZEB	3GN17CV096	Shazeb
34	ASHWINI	3GN18CV021	Ashwini
35	MOHAMMED OWAIS	3GN18CV060	Mohammed
36	PRIYADARSHANI	3GN18CV082	Priyadarshani



	CIE 3
Total No's of students	36
No' of students present	32
No' of students Absent	04
Signature of Invigilator	<i>[Signature]</i>

[Signature]
PRINCIPAL
 Guru Nanak Dev Engg. College, Bidar

[Signature]
HOD
 Department of Civil Engineering

CBCS SCHEME

USN

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Fifth Semester B.E. Degree Examination, Jan./Feb. 2021

Municipal Wastewater Engineering

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Explain the necessity of treating waste water. (08 Marks)
- b. Explain with a neat sketch, construction and working of a manhole. (08 Marks)
- c. Explain the principles of house drainage. (04 Marks)

OR

- 2 a. Define wet weather flow. Explain factors affecting wet weather flow. (08 Marks)
- b. The drainage area of one sector of a town 100 hectares having a population of one lakh persons, the rate of water supply is 150 LPCD, 80% of which flows out as sewage. The peak flow of sewage is 2.5 times the average flow. The area of the town is classified as follows:

Percentage of total area	Type of Surface	Run off coefficient
45	Hard pavements and roofs	0.85
20	Unpaved	0.45
20	Garden and lawn	0.25
15	Wooded area	0.15

If time of concentration for the area is 30 minutes. Find the maximum run off. Use the following formula for intensity of Rainfall $R = \frac{900}{(t + 60)}$. (08 Marks)

- c. What are traps? Explain the importance of traps. (04 Marks)

Module-2

- 3 a. Write the flow diagram employed to treat municipal waste water and indicate the importance of each treatment unit. (08 Marks)
- b. Find the minimum velocity and gradient required to transport coarse sand through a sewer of 60 cm diameter with sand particle of 1 mm diameter and specific gravity 2.66. Assume $\beta = 0.06$ and $f = 0.02$. Assume the sewer to run half full. Take $N = 0.012$. (08 Marks)
- c. What is sampling? Mention types of sampling. (04 Marks)

OR

- 4 a. Explain the concept of BOD and COD. Enumerate their limitation. (08 Marks)
- b. The BOD of a sewage incubated for one day at 30°C has been found to be 100 mg/L. What will be the 5 day 20°C BOD? Assume $K = 0.12$ (Base 10) at 20°C. (08 Marks)
- c. Briefly explain self cleansing velocity. (04 Marks)

Module-3

- 5 a. Discuss the importance of screening in waste water treatment operation and explain types of screens. (08 Marks)
- b. What do you understand by self purification of natural water bodies? Explain the factors affecting self purification. (08 Marks)
- c. Explain sewage farming. Mention the various methods of sewage farming. (04 Marks)

1 of 2



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OR

- 6 a. With neat sketch, explain the different zones of self purification. (08 Marks)
b. A stream saturated with DO, has a flow of $1.2 \text{ m}^3/\text{s}$, BOD of 4 mg/l and rate constant of 0.3 per day. It receives an effluent discharge of $0.25 \text{ m}^3/\text{s}$ having BOD 20 mg/l DO 5 mg/l and rate constant 0.13 per day. The average velocity of flow of the stream is 0.18 m/s . Calculate the DO deficit at point 20 km downstream. Assume that the temperature is 20°C throughout and BOD is measured at 5 days. Take saturation DO at 20°C as 9.17 mg/l . (08 Marks)
c. Draw a neat sketch of skimming tank. Enumerate importance of skimming tank. (04 Marks)

Module-4

- 7 a. Explain with neat sketch the working of Trickling Filter. What is the principle on which it working? (08 Marks)
b. Explain the different stages involved in the sludge digestion process. (08 Marks)
c. Briefly explain R.B.C. (04 Marks)

OR

- 8 a. Mention the various types of modification of ASP and explain any two methods in brief. (08 Marks)
b. Design suitable dimensions of a circular trickling filter units for treating 5 million litres of sewage per day BOD of sewage is 150 mg/l . (08 Marks)
c. Write short note on drying beds. (04 Marks)

Module-5

- 9 a. Discuss in brief the Nitrification and Denitrification process in advance waste water treatment. (08 Marks)
b. Draw a neat sketch of septic tank. Write the design criteria required for septic tank. (08 Marks)
c. Write a short note on advance oxidation process. (04 Marks)

OR

- 10 a. Discuss in brief the biological and chemical methods of removal of phosphorous from waste water. (08 Marks)
b. Write short notes on:
(i) Electro coagulation
(ii) Soak pits
(iii) Eco toilets (12 Marks)



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