



### **2.5.1**

**Mechanism of Internal assessment is transparent and robust in term of frequency and mode**

- Question paper setting**
- Conduction**
- Assessment**
- Result Declaration**



**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

**Frequency of Internal Examination  
followed as per the Academic Calendar**





Shri Vithal Education and Research Institute's

Academic Calendar

College of Engineering, Pandharpur

Semester II A.Y. 2023-2024

JAN 2024	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED
	UE	UE	UE	UE	UE	UE		UE	UE	FC	GMS	B			F9	SEM START	ATT									FN6/SY			SCM		MP/SC
FEB 2024	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU		
		ARCM					GRM					IV	IV				MP/SC			FN7	ISE-I	ISE-I	ISE-I	ISE-I/D	ISE-I		LT	LT	LT	LT	
MAR 2024	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN
	LT	LT/R						FI0/FN8/RSHM			MP/SC					MP/SC	PM				SCM		ISE-II		ISE-II	ISE-II	ISE-II	ISE-II	F11	F12	
APR 2024	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	
	LT/D	LT	LT	LT	LT/R					F13	F14				FN8/SY		F15		UGP	UGP	F16					UGS					
MAY 2024	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI
	F17	SC					ISE-III	ISE-III	ISE-III	ISE-III	ISE-III		LT	LT	LT	LT	LT/R				IO	IO	F18	PG	PG		PG	R&D	R&D	R&D	UE

Date	Symbol	SEMESTER-I (August to December 2023)	Date	Symbol	SEMESTER-II (January to May 2024)
15th Jul	GMS	General Meeting and Staff Orientation Programme	1st Jan onwards	U.E	Tentative Period for University Examination
1st Aug to 16th Aug		Certificate/Add-on Course (TY and BTech student)	10th Jan	FC	File Completion Date
1st Aug to 15th Dec		Teaching Period	11th Jan	GMS	General Meeting and Staff Orientation Programme
1st Aug	PD/ARS	Personality Development Presentations & Anti-Ragging	12th & 13th Jan	B	Beats 2K23
As per schedule		Weekly Off/Festival	15th Jan	F9	Makar Sankranti
7th Aug to 14th Aug	OR	Orientation Program for FYBTech Students	16th Jan to 31st May		Teaching Period
10th Aug to 20th Aug		ATT and SVERI NASCENT Program	17th Jan to 21st Jan		Advanced Technical Training
15th Aug	FN1 & SV	Independence Day & SVERIAN Quarterly Issue Release Day	As per schedule		Weekly Off/Festival
17th Aug	FN2	Foundation Day	26th Jan	FN6 & SV	Republic Day & SVERIAN Quarterly Issue Release Day
26th Aug	GRM	Grievance Redressal Meeting	29th Jan	SCM	Students' Council Meeting
30th Aug	F1	Raksha Bandhan	31st Jan	MP/SC	Mock-Parliament / Mock Security Council (MECH Dept.)
5th Sept.	FN3	Teachers' Day	2nd Feb	ARCM	Anti-Ragging Committee Meeting
9th Sept	ARCM	Anti-Ragging Committee Meeting	7th Feb.	GRM	Grievance Redressal Meeting
15th Sept.	FN4	Engineers' Day	11th & 12th Feb	IV	Industrial Visit
15th & 16th Sept	OPS	Olympus	16th Feb.	MP/SC	Mock-Parliament / Mock Security Council (CIVIL Dept.)
19th Sept	F2	Shri Ganesh Chaturthi	19th Feb	FN7	Chhatrapati Shivaji Maharaj Birth Anniversary
20th to 25th Sept	ISE-I/R	ISE- I (Result on 5th Day after last paper)	20th Feb to 24th Feb	ISE-I/R	ISE- I (Result on 5th Day after last paper)
As per schedule	D	Display of Defaulters List and Letters to Parents	As per schedule	D	Display of Defaulters List and Letters to Parents Accordingly
26th to 30th Sept	LT	Lab Test on 1st Practical session after ISE of the concerned	26th Feb to 2nd Mar	LT	Lab Test on 1st Practical session after ISE of the concerned subject
28th Sept	F3	Eid-a-milad	8th Mar	F10	Mahashivratri
2nd Oct	FN5	Mahatma Gandhi & Lal Bahadur Shastri Jayanti	8th Mar	FN8	International Womens' Day & Annual Prize Distribution Ceremony
2nd Oct	SV	SVERIAN Quarterly Issue Release Day	8th Mar	RSHM	Restriction of Sexual Harassment Meeting
2nd Oct	NPVD	Non-Private Vehicle Day	11th Mar	MP/SC	Mock-Parliament / Mock Security Council (ENTC& ELE Dept.)
4th Oct	MP/SC	Mock-Parliament / Mock Security Council (MECH Dept.)	16th Mar	MP/SC	Mock-Parliament / Mock Security Council (CSE Dept.)
7th Oct	RSHM	Restriction of Sexual Harassment Meeting	17th Mar	PM	Parents' Meet For FE, MECH & ENTC.
10th Oct	MP/SC	Mock-Parliament / Mock Security Council (CSE Dept.)	21st Mar	SCM	Students' Council Meeting
12th Oct	SCM	Students' Council Meeting	23rd Mar to 28th Mar	ISE-II/R	ISE- II (Result on 5th Day after last paper)
17th Oct to 21st Oct	ISE-II/R	ISE- II (Result on 5th Day after last paper)	29th Mar	F11	Good Friday
22nd Oct to 27th Oct	LT	Lab Test on 1st Practical session after ISE of the concerned	30th Mar	F12	Rang Panchami
24th Oct	F4	Vijaydashami Dasara	1st Apr to 5th Apr	LT	Lab Test on 1st Practical session after ISE of the concerned subject
1st Nov	MP/SC	Mock-Parliament / Mock Security Council (ENTC& ELE	9th Apr	F13	Gudhi Padwa
5th Nov	PM	Parents' Meet (CIVIL Engg. & CSE Dept.)	10th Apr	F14	Ramjan Eid
7th Nov	MP/SC	Mock-Parliament / Mock Security Council (CIVIL Dept.)	14th Apr	FN9	Dr. Babasaheb Ambedkar Birth Anniversary
10th Nov to 15th Nov	F5	Dipawali Festival	14th Apr	SV	SVERIAN Quarterly Issue Release Day
17th Nov	SCM	Students' Council Meeting	17th Apr	F15	Ram Navami
19th to 20th Nov	IV	Industrial Visit	19th Apr. to 20th Apr.	UGP	Internal Presentation of B.E. Project
22nd to 23rd Nov	F6	Kartiki Ekadashi	21st Apr	F16	Mahaveer Jayanti
25th Nov	SC	Syllabus Completion	26th Apr	UGS	B.E. Project Submission
27th Nov.	F7	Guru Nanak Jayanti	1st May	F17	Maharashtra Din
28th Nov to 2nd Dec	ISE-III/R	ISE- III (Result on 5th Day after last paper)	2nd May	SC	Syllabus Completion
3rd Dec to 8th Dec	LT	Lab Test on 1st Practical session after ISE of the concerned	7th May to 11th May	ISE-III/R	ISE- III (Result on 5th Day after last paper)
10th Dec	IO	Internal Oral and Term work submission/ Displaying of Marks	13th May to 17th May	LT	Lab Test on 1st Practical session after ISE of the concerned subject
12th Dec to 14th Dec	P.G	Preparation and Guidance Sessions	21st May to 22nd May	IO	Internal Oral and Term Work submission/ Displaying of Marks
15th Dec to 17th Dec	R&D	STTP/Conference/Workshop/Seminar /National Conference/Dept.Workshop	23rd May	F18	Buddha Pournima
19th Dec onwards	U.E	Tentative Period for University Examination	24th May to 27th May	P.G	Preparation and Guidance Sessions
25th Dec	F8	Christmas -Natal	28th to 30th May	R&D	STTP/Conference/Workshop/Seminar /National Conference/Dept.Workshop
			31st May	U.E	Tentative Period for University Examination

Dr. B. P. Ronge  
PRINCIPAL



**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

**In Semester Examination (ISE)  
Question paper setting**

**SVERI's College of Engineering**

**Pandharpur**

**Department of Civil Engineering**

**A.Y. 2023-24 SEM-I**

**ISE Record**



**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

## **Conduction of In Semester Examination (ISE)**

- **Circular**
- **Notice**
- **Time Table**
- **Seating Arrangement**
- **Supervision Duty Sheet**



# Circular



## Shri Vitthal Education & Research Institute's COLLEGE OF ENGINEERING, PANDHARPUR

P.B.No. 54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413 304, Dist. Solapur (Maharashtra) Tel.: 7755990201.

Toll Free No.: 1800-3000-4131, E-mail: coe@sveri.ac.in, Website: www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur)

Accredited by The Indian Institution of Engineers (India), Kolkata and TCS, Pune. ISO 9001:2008 Certified Institute



Ref.: COEPR/2017-18/CI/67(A)  
Circular

Date:- 03/01/2018

All the Students and Staff are hereby informed to note that the policy in respect of In Semester Examination (ISE) marks has been modified through the resolution in Students' Council meeting dated 12/10/2017. The modified policy is as given below:

- 1) If student passes in all the three ISEs of the Subject (Course) then the average of the best of two ISEs be considered for finalising ISE marks of that Subject (Course) for sending to University.
- 2) If student fails in one or more ISEs of Subject (Course) then the average of all the three ISEs is to be considered for finalising ISE marks of that subject for sending to University.
- 3) Student failing in or remaining absent for Subject(s)[(Course)(s)] in ISE(s) or willing to improve the performance in one or more Subject(s)[(Course)(s)] ,at his/her choice may opt for Re-ISE(s) ,within five days from the date of declaration of the concerned ISE result, once for each Subject (Course) by paying charges of Rs.300/- per Subject (Course) of ISE.
- 4) This policy be reflected in every notice of ISE henceforth.
- 5) This circular be part of Subject file under A2 as per Circular no.SVERI/2010-11/CIR/85 (A) dated 01/01/2011, alongwith other relevant circulars.

The policy shall come into force from Semester -II of the Academic Year 2017-18.  
All the concerned should take note of the above and act accordingly.

*B.P. Ronge*  
(Dr.B.P.Ronge)  
PRINCIPAL

### C.C.:

- |              |   |                                  |                          |
|--------------|---|----------------------------------|--------------------------|
| 1) All Deans | 2) All HODS : For effective circulation | 3) All Subject (Course) Teachers | 4) College Notice Boards |
| 5) FTP       | 6) Office Copy                          | 7) Office Copy                   | 8 ) Hostel Notice Board  |

### Revised Circular

All the Students and Staff are hereby informed to note that the policy in respect of In Semester Examination (ISE) has been revised through the resolution in Students' Council meeting dated 24/01/2019. The revised policy is as given below:

- 1) If student passes in all the three ISEs in a Subject (Course) then the average of the best of two ISEs be considered for finalising ISE mark of that subject (Course) for sending to University.
- 2) Student failing in or remaining absent for Subject(s) [(Course)s] in ISE(s) has to compulsory appear for Re-ISE(s), once for each Subject (course) by paying charges of Rs.100/- per Subject (Course) of ISE, as per the schedule decided by department.
- 3) Student clear pass in ISE, but willing to improve the performance in one or more Subject (s) [(Course)s] at his /her choice may opt for RE-ISE(s), once for each subject (Course) by paying charge of Rs. 100/- per subject (course) of ISE, as per the schedule decided by department.
- 4) If student fails in one or more ISEs of Subject (Course) then the average of all the three ISEs is to be considered for finalising ISE marks of that subject for sending to University.
- 5) This policy be reflected in every notice of ISE henceforth.
- 6) This circular be part of Subject file under A2 as per Circular no. SVERI/2010-11/CIR/85 (A) dated 01/01/2011, along with other relevant circulars.
- 7) The earlier circular in this respect No. COEPR/2017-18/Cir/67(A) dated 03/01/2018 stands cancelled.

The policy shall come into force from Sem-II of the Academic Year 2018-19.

All the concerned should take note of the above and act accordingly.



*B. Ronge*  
(Dr. B. P. Ronge)  
**PRINCIPAL**

#### C.C.

- |                         |                          |   |                                  |
|-------------------------|--------------------------|---|----------------------------------|
| 1) Campus Incharge      | 2) All Deans             | 3) All HODS : For effective circulation | 4) All Subject (Course) Teachers |
| 5) Hostel Notice Boards | 6) College Notice Boards | 7) FTP                                  | 8) Office Copy                   |



SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S  
**COLLEGE OF ENGINEERING, PANDHARPUR**

B. No. 54, Gopalpur -Ranjani Road, Gopalpur, Tal.- Pandharpur- 413 304, Dist.- Solapur (Maharashtra)

Tel.: 02186-216063, 9503103757. E-mail : [coe@sveri.ac.in](mailto:coe@sveri.ac.in). Website: [www.sveri.ac.in](http://www.sveri.ac.in)

(Approved by A.I.C.T.E., New Delhi and affiliated to Solapur University, Solapur)

NBA Accredited all Eligible UG Programmes and , NAAC, Accredited Institute,

Accredited by the Institute of Engineers (India), Kolkata and TCS, Pune ISO 9001-2015 Certified Institute



ISO 9001:2015



www.tuv.com  
ID: 1105048134

DATE: 08/09/2023

**NOTICE**

All the faculty members & students from T.Y B.Tech A&B (Sem-I) are hereby informed to note that, **ISE-I** scheduled from **17/09/2023**. All the concerned are hereby informed to take a note of the schedule & act accordingly. All faculty members are requested to declare syllabus for ISE-I to the students on or before the date 15/09/2023.

**Note:**

1. Each Question paper will be of 20 marks with time duration of 1:30 hrs.
2. Every day there will be one paper.

*Koshti G.K.*

ISE Coordinators.

(Mr. Koshti G.K.)

*Abhinav*

HOD Civil Dept.



SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S  
**COLLEGE OF ENGINEERING, PANDHARPUR**

B. No. 54, Gopalpur -Ranjani Road, Gopalpur, Tal.- Pandharpur- 413 304, Dist.- Solapur (Maharashtra)  
Tel.: 02186-216063, 9503103757, E-mail : [coe@sveri.ac.in](mailto:coe@sveri.ac.in), Website: [www.sveri.ac.in](http://www.sveri.ac.in)

(Approved by A.I.C.T.E., New Delhi and affiliated to Solapur University, Solapur)

NBA Accredited all Eligible UG Programmes and , NAAC, Accredited Institute,

Accredited by the Institute of Engineers (India), Kolkata and TCS, Pune ISO 9001-2015 Certified Institute



ISO 9001:2015



www.tuv.com  
10 010048199

DATE: 08/09/2023

**T.Y B.Tech Sem-I (Div- A)**

Sr.No	Roll No.	Name of student	Sign.
1	08	Priyanka Pranna Koli	Priyanka
2	02	chavan Aishwarya Rohidas	Arelavan
3	033	Nilgar. Vighnabar. Sharad.	Nilgar
4	82	Nilgar. Avinash Sharanappa.	Avinash
Faculty		Ms. Pooja B. Ronge	Pooja

**T.Y B.Tech Sem-I (Div- B)**

Sr.No	Roll No.	Name of student	Sign.
1	11	Mulani Tamayya sikandou	Mulani
2	06	Gauri sunil jadhav	Gauri
3	40	Satpute Anand Sahadev	Satpute
4	39	Salvitthal Harshraj Sanjay	Salvitthal
Faculty		Dr. V. S. Kshirsagar	V. S. Kshirsagar



SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S  
**COLLEGE OF ENGINEERING, PANDHARPUR**

B. No. 54, Gopalpur -Ranjani Road, Gopalpur, Tal. - Pandharpur- 413 304,Dist. - Solapur (Maharashtra)

Tel.: 02186-216063, 9503103757, E-mail : [coe@svet.ac.in](mailto:coe@svet.ac.in), Website: [www.svet.ac.in](http://www.svet.ac.in)

(Approved by A.I.C.T.E., New Delhi and affiliated to Solapur University, Solapur)

NBA Accredited all Eligible UG Programmes and , NAAC, Accredited Institute,

Accredited by the Institute of Engineers (India), Kolkata and TCS, Pune ISO 9001-2015 Certified Institute



ISO 9001:2015



**DATE: 08/09/2023**

**ISE-I SCHEDULE**

All the students from T.Y. B.Tech Div-A&B are hereby informed to note that,  
your ISE-I for scheduled as per following.

Please note and act accordingly.

Date	Subject	Time
17/09/2023	Design of Steel Structure.	3.30 PM to 5.00 PM
18/09/2023	Geotechnical Engineering.	3.30 PM to 5.00 PM
20/09/2023	Highway and Tunnel Engineering.	3.30 PM to 5.00 PM
21/09/2023	Hydrology and Water Resource Engineering.	3.30 PM to 5.00 PM
22/09/2023	Design of Concrete Structure-I	3.30 PM to 5.00 PM
23/09/2023	Environmental Engineering -II	3.30 PM to 5.00 PM
24/09/2023	Managing Innovation And Entrepreneurship.	3.30 PM to 5.00 PM

*dp. s. k. G. S.*  
ISE Coordinator

*Adhik*  
HOD Civil Dept.



DATE: 17/09/2023

**Seating Arrangement ISE-I**

**TY- A&B Sem-I A.Y. 2023-24**

Block No.	Location	Roll No	Total
1	MF- 326 (T.Y-Div.- A & B All Girls)	T.Y. -B Roll No- 01 to 16 =16 (A) Roll No- 01 to 20 =20 (B)	36
2	MF- 209 (TRE Lab) (Third Year. B.Tech-Div.B )	T.Y. -B Roll No- 21 to 45 =25 (B)	25
3	MF-324 (Third Year. B.Tech-Div. B)	T.Y. -A Roll No- 17 to 44 =28 (A)	28

*Prasanna G.B.*  
17/09/23  
ISE- Coordinator

*Abhinav*  
HOD Civil Dept.



SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S  
COLLEGE OF ENGINEERING, PANDHARPUR.  
Department of Civil Engineering

DATE: 17/09/2023

**SUPERVISION CHART ISE-I**

**TY- A&B Sem-I A.Y. 2023-24**

All the faculties are hereby informed to note that supervision duties are allocated as following for ISE-I. Please note and act accordingly.

Sr. No	Faculty Name	17/09/2023	18/09/2023	20/09/2023	21/09/2023	22/09/2023	23/09/2023	24/09/2023
	Time	(03:30 to 05:30 )	(03:30 to 05:30 )	(03:30 to 05:30 )	(03:30 to 05:30 )	(03:30 to 05:30 )	(03:30 to 05:30 )	(03:30 to 05:30 )
1	Prof.R.P. Jadhav	(MF-326)			(MF-209)	(MF-326)	(MF-324)	
2	Prof. P.H.Gund	(MF-209)	(MF-326)				(MF-326)	(MF-324)
3	Prof.S.D.Jagdale		(MF-209)	(MF-326)	(MF-324)		(MF-209)	
4	Prof.P.B.Bhagan agare	(MF-324)		(MF-324)	(MF-326)	(MF-324)		(MF-209)
5	Prof.S.P.Padole		(MF-324)	(MF-209)		(MF-209)		(MF-326)

**Note: Please Report in HOD cabin at 3:15 pm**

To make effective implementation of the ISE, the following Committee is constituted for the smooth functioning.

**Squad Members**

Sr.No.	FacultyName	Class
1	Prof. A.B.Kokare	(MF-209)
2	Dr. V.S.Kshirsagar	(MF-324)
3	Prof. P.B.Ronge	(MF-326)

All are requested to take a note of it act accordingly.

*hosur: G.K.*  
17/09/23.  
ISE- Coordinator

*Abhi*  
HOD Civil Dept.

**SVERI'S College of Engineering, Pandharpur**  
**Department of Civil Engineering**  
**T.Y.CIVIL ISE-I Academic Year -2023-2024**  
**Design of Steel Structures**  
**Div: - A & B**

**Day and Date: 17/09/2023**  
**Time- 3.30pm-5.30pm**

**Marks - 20**  
**Duration-2 Hours**

CO	CO STATEMENT	BLOOMS LEVEL	MAX. MARKS
CE51C.1	Apply 'Limit State' design approach for designing various elements of steel structures for strength and serviceability.	BL 3	10
CE51C.2	Design various steel structure elements viz. Bolted and welded connections as per procedures defined by Indian Standard Code of practice : IS 800: 2007.	BL 3	10

**Instructions - I) All questions are compulsory.**  
**II) Assume suitable data if required.**

Q. 1	MCQ'S/objectives type questions.	Marks	Related CO & Blooms Level	PI
1)	Furniture is example of a) Dead Load      b) Live Load      c) Environmental Load d) Dynamics Load	02	CO-1 & BL 3	PI:2.1.2
2)	Poisson's Ratio of steel in the elastic range is a) 0.25      b)0.3      c) 0.4      d) 0.5			PI:2.1.2
Q. 2	MCQ'S/objectives type questions	02	CO-2 & BL 3	PI:2.2.2
1)	Minimum edge distance of bolted joint for machine cut edge is not less than a) 2.5 d      b) 1.5 times diameter of bolt hole      c) 2 times diameter of bolt d) 1.5 d			
2)	Which of the following is the mode of failure in a fillet welds a)Tension b) shear c) Bearing d) Crushing			PI:2.2.2
Q. 3	Solve any two	08	CO-1 & BL 3	PI:2.1.2
1)	Describe advantages & disadvantages of steel structure?			
2)	Explain the Philosophy of limit state method of design? Also Explain the Limit state of Strength and Serviceability?			
3)	Differentiate bolted connection over the welded connection?			
Q. 4	Solve the following	08	CO-2 & BL 3	PI:3.1.1, 2,3 & 3.2.1 & 3.3.1
1)	A tie member of a truss consists of double angle section, each 80mmx80mmx8mm welded on the opposite side of a 12mm thick gusset plate. Design fillet weld for making the connection in the workshop. The factored tensile force in the member is 200 KN.			
	<b>OR</b>			
2)	A water tank is made with 10mm thick plates. The plates are joined by single bolted lap joint using 16 mm diameter ordinary bolts at pitch of 50mm. Find the strength and Efficiency of the joint.			

.....*All the Best*.....





SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S

**COLLEGE OF ENGINEERING, PANDHARPUR**

P.B. No. 54, Gopalpur -Ranjani Road, Gopalpur, Tal.- Pandharpur- 413 304, Dist.- Solapur (Maharashtra)

Tel.: 02186-216063, 9503103757, E-mail : [coe@sveri.ac.in](mailto:coe@sveri.ac.in), Website: [www.sveri.ac.in](http://www.sveri.ac.in)

(Approved by A.I.C.T.E., New Delhi and affiliated to P. A. H. Solapur University, Solapur)

NBA Accredited all Eligible UG Programmes and , NAAC, Accredited Institute,

Accredited by The Institution of Engineers (India), Kolkata and TCS, Pune ISO 9001-2015 Certified Institute



ISO 9001:2015



www.tuv.com  
ID P10644194

Date- 12/09/2023

**Department of Civil Engineering.  
Question Paper Reviewing Report**


Class: TY Div.: A+B Test: ISE-I Academic Year: 2022-23

Name of subject Teacher:- Mr. Anand B. Kokare

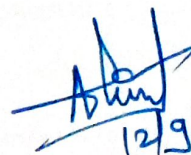
Name of Subject:- Design of steel structure

Name of Reviewer:- Mr. Ravikiran P. Jadhav

A]

Sr. No.	Recommended/Not Recommended	If not recommended comments of reviewer	Sign of Reviewer
	<u>Recommended</u>	<u>—</u>	 <u>12/08/2023</u>

B] HOD Remark: Recommended

  
12/9/2023  
HOD Civil Dept.

**SVERI'S College of Engineering, Pandharpur**

**Department of Civil Engineering**

T.Y.CIVIL ISE-I Academic Year -2023-2024

**Design of Steel Structures**

Div: - A & B

Day and Date: 17/09/2023

Time- 3.30pm-5.30pm

Marks - 20

Duration-2 Hours

CO	CO STATEMENT	BLOOMS LEVEL	MAX. MARKS
CE51C.1	Apply 'Limit State' design approach for designing various elements of steel structures for strength and serviceability.	BL 3	10
CE51C.2	Design various steel structure elements viz. Bolted and welded connections as per procedures defined by Indian Standard Code of practice : IS 800: 2007.	BL 3	10

**Instructions - I) All questions are compulsory.  
II) Assume suitable data if required.**

Q.1	MCQ'S/objectives type questions.	Marks	Related CO & Blooms Level	PI
1)	Furniture is example of a) Dead Load      b) Live Load      c) Environmental Load d) Dynamics Load	02	CO-1 & BL 3	PI:2.1.2
2)	Poisson's Ratio of steel in the elastic range is a) 0.25    b)0.3    c) 0.4    d) 0.5			PI:2.1.2
<b>Q. 2</b>	<b>MCQ'S/objectives type questions</b>	02	CO-2 & BL 3	PI:2.2.2
1)	Minimum edge distance of bolted joint for machine cut edge is not less than a) 2.5 d    b) 1.5 times diameter of bolt hole    c) 2 times diameter of bolt d) 1.5 d			
2)	Which of the following is the mode of failure in a fillet welds a)Tension b) shear c) Bearing d) Crushing			
<b>Q. 3</b>	<b>Solve any two</b>	08	CO-1 & BL 3	PI:2.1.2
1)	Describe advantages & disadvantages of steel structure?			
2)	Explain the Philosophy of limit state method of design? Also Explain the Limit state of Strength and Serviceability?			
	3) Differentiate bolted connection over the welded connection?			
<b>Q. 4</b>	<b>Solve the following</b>	08	CO-2 & BL 3	PI:3.1.1, 2,3 & 3.2.1 & 3.3.1
1)	A tie member of a truss consists of double angle section, each 80mmx80mmx8mm welded on the opposite side of a 12mm thick gusset plate. Design fillet weld for making the connection in the workshop. The factored tensile force in the member is 200 KN.			
	<b>OR</b>			
2)	A water tank is made with 10mm thick plates. The plates are joined by single bolted lap joint using 16 mm diameter ordinary bolts at pitch of 50mm. Find the strength and Efficiency of the joint.			

.....All the Best.....

*Checked and verified.*  
*[Signature]*  
14/09/23



### Attendance Record

Class: **TY - A**

ISEI - I

Subject: **DOS**


Date: **17/09/2023**

Time: **3:30 - 5:00**

Name of supervisor: **Mr. Ravikiran Jadhav**

Sr. No	Roll No.	Name of Student	Sign
1	01	Ashtul Sayli vilay	Ashtul
2	02	Chavan Aishwarya Pankaj	Chavan
3	03	Chavase Namrata Dinkar	Chavase
4		AB	
5	05	Kamble Kajal Shrawan	Kamble
6	06	Karande Priyanka Pradip	Priyanka
7	07	Kawale Pankaj Prabhakar	Kawale
8	08	Koli Tejyanka Jyotindra	Tejyanka
9	09	Aishwarya Pradip Kumbhar	Kumbhar
10	10	Latake Divya R.	Latake
11	11	Mane Akanksha Paganath	Akanksha
12	12	Nagane Pooja Dadasahab	Nagane
13	13	Ronge Snehal Navnath	Ronge
14	14	Alvisha Amin Shaikh	Alvisha
15	15	Survase Anisha A.	Survase
16	16	Tengale S. C	Tengale
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Total No of Absent students- **01**  
 Roll No of absent students- **04,**

  
 Sign of Supervisor **17/09/23**  
**(Mr. Ravikiran Jadhav)**



Attendance Record

Class:- TY-A.

ISE:- 1

Subject:- DSS

Date :- 17/09/2023

Time:			
Name of supervisor:			
Sr. No	Roll No.	Name of Student	Sign
1	18	Ramesh Bapu Bangar	
2	19	Bansode Ajay Bhagwat	
3	45	Hanumanth Bhagwat Sada	
4	21	Siddhant Chavan	
5	22	Suparni M. Dhulegaude	
6	23	Vishwajeet S. Ghadge	
7	24	Samant P. Hingoraji	
8	25	Vithal S. Hotkar	
9	26	Pratik Dada Kase	
10	27	Chetankar Abhijit Ashok	
11	28	Santosh Lendave	
12	29	Madane Gopal	
13	30	Mashale Rahul M.	
14	32	Nilgar. Avinash S.	
15	33	Nilgar. Vighnesh S.	
16	34	Nimbal. A.	
17	35	Nimbalkar Yash. J	
18	36	Padvatkar Mahesh	
19	37	Patil Om V	
20	38	Ronge Raj Mohan	
21	39	Shedra Abhishek	
22	41	Shinde Yuvraj	
23	42	Sunagar Suresh	
24	43	Tukdoli B.P	
25	44	Waghmare S.S	
26	20	Charan Prathmesh L.	
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Total No of Absent students- 03  
 Roll No of absent students- 17, 31, 40

Sign of Supervisor  
 (P. B. Bhaganagare)



**Attendance Record**

Class:- **TY-B**

ISE:- **I**

Subject:- **DSS**

Date :- **17/09/2023**

Time: **3:30 - 5:00**

Name of supervisor: **Mr. Ravikiran Jadhav**

Sr. No	Roll No.	Name of Student	Sign
1	01	Bunsode Poonam Bhairavnuth	
2	02	Bhosale Pratiksha Adhikar	Bhosale PA
3	03	Deshmukh Smrita Dhanaj.	
4	04	Dhene Pooja Santosh	
5	05	Ghadge Arati Manik	
6	06	Jadhav Gaurav S.	
7	07	Kokane Shweta Ravi	
8	43	Ingale puja	Ingalep.
9	09	Lokhande megh. A	
10	10	More Asmita Hanumant	
11	11	Mulani Tamayya Sikandar	
12	12	Rajnandini vijay patil	
13	13.	phalake prajakta. S	
14	14.	Fujari Mangal S.	M.S. Fujari
15	15	Raut Rutuja. S.	
16	16	Badave Suprabha. N.	
17	17	Sonavane Sumiksha Manj.	
18	18	Khargmare Suresh Dalivale	
19	19	Pumde Saijya N.	
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Total No of Absent students- **-**  
 Roll No of absent students- **-**

Sign of Supervisor **17/09/23**  
**Mr. Ravikiran Jadhav**



**Attendance Record**

Class:- **TY-B**

ISE:- 1

Subject:- **DSS**

Date :- 17/09/2023

Time: 8.30 to 9:00

Name of supervisor:

Sr. No	Roll No.	Name of Student	Sign
1	20	Aditya Santosh Asabe	A.S.Asabe
2	21	Ritesh Bhosale	Ritesh
3	22	Pravin Sunil Dubule	Dubule
4	23	Gaikwad Saniket Mohan	Saniket
5	24	Vijay D. Jagtap	Vijay
6	25	Joshi Yogeshwar G.	Joshi
7	26	Kale Rohit R	Rohit
8	27	Kosake Ritesh Kailas	Ritesh
9	28	AB	
10	29	Kshirsagar Akshay M.	Akshay
11	30	lande sandesh Sudhir	Sandesh
12	31	Landhe Tulshidas D	Tulshidas
13	32	Machale Prathmesh D	P.D.M
14	33	AB	
15	34	more Aniket Navnath	Aniket
16	35	Patil Rohit Prabhakar	Rohit
17	36	Patil Swapnil Srikant	Swapnil
18	37	AB	
19	38	Darsandale Rohit. R.	Rohit
20	39	Harshraj Sanjay Salvitthal	Harshraj
21	40	Anand Satish Salpale	Satish
22	41	shrinash Babarakeb shinde	Shrinash
23	42	Rohit Bhambadev Tad	Rohit
24	43	AB	Fajrije present
25	44	AB	
26	45	AB	
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

Total No of Absent students- 05  
 Roll No of absent students- 28, 33, 37, 44, 45

Sign of Supervisor  
  
 (Gunde P.H.)



SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S  
**COLLEGE OF ENGINEERING, PANDHARPUR**



ISO 9001:2015



P.B. No. 54, Gopalpur -Ranjani Road, Gopalpur, Tal.- Pandharpur- 413 304, Dist.- Solapur  
(Maharashtra) Tel.: 02186-216063, 9503103757, E-mail : [coe@sveri.ac.in](mailto:coe@sveri.ac.in), Website: [www.sveri.ac.in](http://www.sveri.ac.in)  
(Approved by A.I.C.T.E., New Delhi and affiliated to P. A. H. Solapur University, Solapur)  
UG Programmes and , NAAC A+, Accredited Institute, Accredited by The Institution of Engineers  
(India), Kolkata and TCS, Pune ISO 9001-2015 Certified Institute

Date-20/10/2023

To,  
The Dean Academics,  
SVERI's College of Engineering, Pandharpur

Sub: About postponement of In-semester Examination-II

Respected Sir,

Our department In-semester Examination-II was scheduled from 16/10/2023 to 21/10/2023 as per academic calendar. As our college hosted 19th Youth Festival of PAH Solapur University, Solapur from 10/10/2023 to 13/10/2023, due to this lectures and practical's were not conducted. As a result, syllabus coverage of most of the subjects is lagging. So, we are planning to conduct In-semester Examination-II from 27/10/2023 to 31/10/2023. We request you to provide the permission for the same.

Thanking you,

Yours faithfully,

Head

Civil Engineering Department

*Permission Granted  
Dean Academics*



SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S  
**COLLEGE OF ENGINEERING, PANDHARPUR**

B. No. 54, Gopalpur -Ranjani Road, Gopalpur, Tal.- Pandharpur- 413 304,Dist.- Solapur (Maharashtra)  
Tel.: 02186-216063, 9503103757, E-mail : [coe@sveri.ac.in](mailto:coe@sveri.ac.in). Website: [www.sveri.ac.in](http://www.sveri.ac.in)  
(Approved by A.I.C.T.E., New Delhi and affiliated to Solapur University, Solapur)  
NBA Accredited all Eligible UG Programmes and , NAAC, Accredited Institute,  
Accredited by the Institute of Engineers (India), Kolkata and TCS, Pune ISO 9001-2015 Certified Institute



ISO 9001:2015



www.tuv.com  
ID 310248198

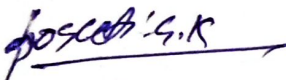
DATE: 19/10/2023

**NOTICE**

All the faculty members & students from **T.Y B.Tech A&B (Sem-I)** are hereby informed to note that, **ISE-II** is scheduled from **27/10/2023**. All the concerned are hereby informed to take a note of the schedule & act accordingly. All faculty members are requested to declare syllabus for ISE-II to the students on or before the date 25/10/2023.

**Note:**

1. Each Question paper will be of 20 marks with a time duration of 1:30 hrs.
2. Every day there will be one paper.

  
ISE Coordinators.

(Mr. Koshti G.K.)

  
HOD Civil Dept.





SHRI VITHAL EDUCATION & RESEARCH INSTITUTE'S  
**COLLEGE OF ENGINEERING, PANDHARPUR**



ISO 9001:2015



B. No. 54, Gopalpur -Ranjani Road, Gopalpur, Tal.- Pandharpur- 413 304,Dist.- Solapur (Maharashtra)

Tel.: 02186-216063, 9503103757, E-mail : [coe@sveri.ac.in](mailto:coe@sveri.ac.in), Website: [www.sveri.ac.in](http://www.sveri.ac.in)

(Approved by A.I.C.T.E., New Delhi and affiliated to Solapur University, Solapur)

NBA Accredited all Eligible UG Programmes and , NAAC, Accredited Institute,

Accredited by the Institute of Engineers (India), Kolkata and TCS, Pune ISO 9001-2015 Certified Institute

**DATE: 19/10/2023**

**ISE-II SCHEDULE**

All the students from T.Y. B.Tech Div-A&B are hereby informed to note that, your ISE-II is scheduled as per following.

Please note and act accordingly.

Date	Subject	Time
27/10/2023	Design of Steel Structure.	9.30am to 11 am
	Geotechnical Engineering.	3.30 pm to 5.00 pm
28/10/2023	Highway and Tunnel Engineering.	9.30am to 11 am
	Hydrology and Water Resource Engineering.	3.30 pm to 5.00 pm
30/10/2023	Design of Concrete Structure-I	9.30am to 11 am
	Environmental Engineering -II	3.30 pm to 5.00 pm
31/10/2023	Managing Innovation And Entrepreneurship.	3.30 pm to 5.00 pm

*posted: 4.15*  
ISE Coordinator

*[Signature]*  
HOD Civil Dept.

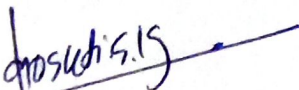


DATE: 26/10/2023

**Seating Arrangement ISE-II**

**TY & LY- A&B Sem-I A.Y. 2023-24**

Block No.	Location	Roll No	Total
1	MF- 324 (T.Y-Div.- A & B Girls)  (L.Y-Div.- A & B Girls)	T.Y. Roll No- 01 to 16 =16 (A) Roll No- 01 to 10 =10 (B) L.Y. Roll No- 01 to 20 =20 (A) Roll No- 01 to 06 =06 (B)	26
2	MF- 209 (T.Y-Div.- B Girls)  (L.Y-Div.- B Girls)	T.Y. Roll No- 11 to 16 =06 (B) L.Y. Roll No- 07 to 15 = 09 (B)	15
3	MF- 326 (T.Y-Div.- A & B Boys)  (L.Y-Div.- A Boys)	T.Y. Roll No- 17 to 44 = 27 (A) Roll No- 17 to 28 = 11 (B) L.Y. Roll No- 21 to 59 = 38 (A)	38
4	MF-327 (T.Y-Div.- B Boys)  (L.Y-Div.- A & B Boys)	T.Y. Roll No- 29 to 45 = 17 (B) L.Y. Roll No- 60 to 71 =12 (A) Roll No- 16 to 29 =13 (B)	25
5	MF-102 (SOM Lab) (L.Y-Div.- B Boys)	L.Y. -B Roll No- 30 to 57 = 27 (B)	27

  
ISE- Coordinator

  
HOD Civil Dept.



Shri Vithal Education & Research Institute's  
**COLLEGE OF ENGINEERING, PANDHARPUR**



ISO 9001:2015



P.B. No. 54, Gopalpur - Ranjani Road, Gopalpur, Tal.: Pandharpur- 413304, Dist.: Solapur (MH)  
Contact No.: 9545553888, 9545553757, E-mail: coe@sveri.ac.in, Website: www.sveri.ac.in  
Approved by A.I.C.T.E., New Delhi, Affiliated to Punyashlok Ahilyadevi Holkar Solapur University, Solapur,  
NAAC A+ with 3.46 CGPA out of 4.00, An ISO 9001-2015 Certified Institute, Accredited by the Institution of  
Engineers, Kolkata and TCS, Pune.

Ref. No.

Date: 27/10/23

## Evaluation Rubrics for the ISE Question Paper

In order to maintain the quality and standard of question papers of the ISE, question papers shall be evaluated from the various academic subject experts as per the Format for Evaluation is given below:

<b>Course Code:</b>		<b>Course Name:</b> H&TE	<b>Exam/Marks:</b> BE-120
Sr. No.	Evaluation Rubrics	Remark	
1	Does the question paper cover the planned syllabus?	Yes	
2	Whether the time allocated for the paper was sufficient and whether the scheme of marking is appropriate?	Yes	
3	Is the paper clearly written and is it appropriate to understand the meaning?	Yes	
4	Whether the Course Outcome (CO) Statements and Blooms Level (BL) are mentioned in the Question paper along with total marks covering a particular CO?	Yes	
5	Whether the Course Outcome (CO) Statements and Blooms Level (BL) are mentioned in Question paper for all Questions?	Yes	
6	Whether the correct Performance Indicators (PIs) are mentioned for every question?	Yes	
7	Check the action verbs used for various Questions with Blooms Level (BL). Mention whether it's appropriate?	Yes	
8	What is the standard of paper to judge the knowledge and analytical skills of student? (Poor, Moderate, Good)	Good	
9	What was the difficulty level of the paper? (Easy, Moderate, Difficult)	Moderate	
10	What is the overall quality of the paper? (Poor, Good, Excellent)	Good	
Overall Remarks: Recommended.			
Question Paper Evaluated by:		Approved by:	
Sign.: Name: Mr. C.B. Limkar. Designation: Assst. Prof. Institute Details: SVERI'S COEP		Sign.: Name: Mr. A.B. Kokare. Designation: Assst. Prof. Institute Details: SVERI'S COEP.	

**SVERI'S College of Engineering, Pandharpur**

**Department of Civil engineering**

Class:-T.Y. Div: - A&B

ISE-II Academic Year - 2023-24

Highway and Tunnel Engineering

Day and Date: Saturday & 28/10/2023

Time-09.30AM to 11.00AM

Marks - 20

Duration-1.5 Hrs

CO	CO STATEMENT	BLOOMS LEVEL	MAX. MARKS
CE53C.3	Select the pavement materials through various tests in the laboratory and design the crust thickness of flexible and rigid pavements as per IRC standards.	BL 3 BL 4	10
CE53C.4	Design different layers of flexible and rigid pavement as per IRC standards.	BL 3	10

**Instructions - I) All questions are compulsory.**

**II) Assume suitable data if required.**

Q. 1	MCQ'S/objectives type questions.	Marks	Related CO & Blooms Level	PI
1.	The loading to the test plate is applied with a) Fluid tube b) Hydraulic jack c) Sand bags d) Cross-joists	1	CE53C.3 & BL2	3.3.1
2.	A seating pressure of _____ is applied on the plate before starting the load test. a) 70 g/cm <sup>2</sup> b) 30 g/cm <sup>2</sup> c) 50 g/cm <sup>2</sup> d) 100 g/cm <sup>2</sup>	1	CE53C.3 & BL1	3.2.2
3.	The CBR method was developed by a) California division of highway b) IRC c) MORTH d) NHA1	1	CE53C.4 & BL1	4.2.1
4.	CBR test is a strength test conducted on a soil by introducing surcharge load at compaction rate of ..... Per min. a) 1.25mm b)1.25cm c)1.25m d)0.125 mm	1	CE53C.4 & BL1	4.2.1
<b>Q. 2</b>	<b>Attempt the following</b>			
1.	Explain a note on Softening Point test on bitumen.	4	CE53C.3 & BL4	3.3.1
2.	Explain a note on Plate Load test.	4	CE53C.3 & BL4	3.3.1
<b>Q. 3</b>	<b>Attempt the following</b>			
1.	Explain a note on flexible pavement with neat sketch.	4	CE53C.4 & BL3	3.2.1
2.	Explain the difference between rigid and flexible pavement.	4	CE53C.4 & BL3	3.2.1

.....*All the Best*.....



**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

**Assessment of In Semester Examination  
(ISE)**



**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

## **In Semester Examination (ISE)**

- **Marking Scheme of Assessment**
- **Answer Sheet**
- **Circular for Timely Assessment**
- **Result**



**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

## **In Semester Examination (ISE)**

- **Marking Scheme of  
Assessment**



**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

## **In Semester Examination (ISE)**

- **Circular for Timely Assessment**





Shri Vithal Education & Research Institute's  
**COLLEGE OF ENGINEERING, PANDHARPUR**

ISE / Unit Test No.: I Date: 17/09/2023

Name of Student: Avinash. Charanappa. Nilgar

Class: TY. B-Tech. (CE) Division: A

Roll No.: 32 Subject: DOSS

Sign of Supervisor: [Signature] Marks: 20/20

CO	BL	PI Code	Q.No.	a	b	c	d	e	f	Total	
1	3	2.1.2	1	↓	↓					02	
2	3	2.2.2	2								02
1	3	2.1.2	3								08
2	3	2.1.2	4								08
			5								
			6								
			7								
			8								
Grand Total										20/20	

1 — P.

1) →

2) → b) ✓

2) → b) ✓

Q.3

1)

→ Advantages of Steel Structure.

1. Speed of construction
2. Ductility is more
3. Strength is more. - Tension & compression.
4. Scrap value is more/high.
5. Reuse of steel.
6. Disposal is easy.
7. Aesthetical view is good.
8. Handling on site easily.

\* Disadvantages of Steel Structure.

1. Cost of steel is very high.
2. Maintenance is required - coating, painting.
3. Low fire resistance.
4. For the construction of steel structure the skilled workers are required.

2)

→ Philosophy of limit state method design.

In the limit state design method, the structure shall be designed to withstand safely all loads likely to act on it throughout its life. It shall not suffer total collapse under accidental loads such as from explosion or impact or due to consequences of human error, to an extent beyond the local damage.

## \* Limit State of Strength.

- The limit state of strength are those associated with failures, under the action of probable & most unfavourable combination of loads on the structure using the appropriate partial safety factors, which may endanger the safety of life & property.

The limit state of strength includes-

1. overturning;
2. Deformation
3. Rupture
4. Fatigue.

## \* Limit State of serviceability.

64 Limit state of serviceability is related to the criteria governing normal use. serviceability limit state is limit state beyond which service criteria specified below,

The limit state of serviceability include:

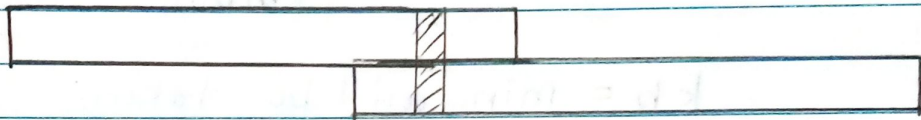
1. Deflection.
2. Vibration.
3. Ponding
4. Durability.
5. Fire resistance
6. Corrosion.

Q. 4.

2)

Thickness of plate = 10 mm.  
Type of joint = single bolted lap joint.  
 $d_o = 16 \text{ mm}$ .  
 $P = 50 \text{ mm}$ , ass grade of bolt = 4.6.  
 $f_e = 410$

To find.  
Strength & Efficiency of the joint.



① Step 1 - calculate dia of bolt hole ( $d_h$ )

$$\begin{aligned}d_h &= d_o + 2 \\ &= 16 + 2 \\ &= \underline{18 \text{ mm}}.\end{aligned}$$

Step 2 - calculate pitch & edge distance.

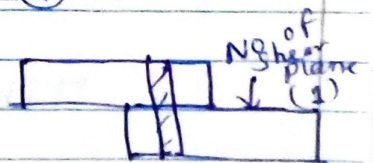
$P = 50 \text{ mm} \rightarrow$  In given.

$$\begin{aligned}e &= 1.5 \times d_h \\ &= 1.5 \times 18 \\ &= \underline{27 \text{ mm}}\end{aligned}$$

Step 3 - calculate shear strength of bolt

$$V_{dsb} = n \cdot A_{nb} \cdot \frac{f_{ub}}{\sqrt{3} \cdot \gamma_{mb}} \quad \text{--- ①}$$

$$n = 1$$



$$A_{nb} = 0.78 \times \frac{\pi}{4} \times d^2$$

$$= 0.78 \times \frac{\pi}{4} \times 16^2$$

$$= \underline{156.828 \text{ mm}^2}$$

Put this value in eq<sup>n</sup> ①

$$V_{dsb} = 1 \times 156.828 \times \frac{400}{\sqrt{3} \times 1.25}$$

$$V_{dsb} = 28.97 \text{ kN}$$

$$0.9 \frac{156.828 \times 400}{\sqrt{3} \times 1.25}$$

Step 4 - calculate bearing strength of bolt

$$V_{dpb} = \frac{2.5 \times k_b \times d \times t \times f_u}{\gamma_{mb}}$$

$k_b = \min$  will be taken

$$\textcircled{1} \frac{e}{3d_h} = \frac{27}{3 \times 18} = 0.5$$

$$\textcircled{2} \frac{p}{3d_h} - 0.25 = \frac{50}{3 \times 18} - 0.25 = 0.675$$

$$\textcircled{3} \frac{f_{ub}}{f_u} = \frac{400}{410} = 0.975$$

$$\text{So, } k_b = 0.5$$

$$V_{dpb} = \frac{2.5 \times 0.5 \times 16 \times 10 \times 400}{1.25}$$

$$V_{dpb} = 64 \text{ kN}$$

Step 5 - calculate tensile strength of bolt

$$T_{db} = 0.9 A_{mb} \times \frac{f_{ub}}{\gamma_{mb}}$$

$$= 0.9 \times 156.828 \times \frac{410}{1.25}$$

$$T_{db} = 46.29 \text{ kN}$$

Step 6 - Calculate tensile strength of plate

$$T_{dn} = 0.9 \times A_n \times \frac{F_u}{\gamma_{m1}}$$

$$\begin{aligned} A_n &= (P - n \cdot d_h) t \\ &= (50 - 1 \times 18) 10 \\ &= 320 \text{ mm}^2 \end{aligned}$$

$$T_{dn} = 0.9 \times 320 \times \frac{400}{1.25}$$

$$T_{dn} = 94.46 \text{ kN}$$

Step 7 - Design strength of bolt

Min of tension, Shear & bearing

$$= \underline{46.29 \text{ kN}}$$

Step 8 - calculate efficiency of joint

$$\text{efficiency} = \frac{\text{Design strength of bolt} \times 100}{\text{Strength of solid plate}}$$

$$\begin{aligned} \text{Strength of solid plate} &= 0.9 \times \frac{F_u}{\gamma_{m1}} \times P \times t \\ &= 0.9 \times \frac{400}{1.25} \times 50 \times 10 \\ &= 144 \text{ kN} \quad 230.6 \text{ kN} \end{aligned}$$

$$\text{efficiency} = \frac{46.29}{230.6} \times 100$$

09

$$= \underline{20.07\%}$$

$$= 20.07\%$$



Shri Vithal Education & Research Institute's  
**COLLEGE OF ENGINEERING, PANDHARPUR**

ISE / Unit Test No.: II

Date: 28-10-23

Name of Student: Magane Pooja Dadasaheb

Class: T.Y

Division: A

Roll No.: 12

Subject: HTE

Sign of Supervisor: \_\_\_\_\_

Marks: \_\_\_\_\_

CO	BL	PI Code	Q.No.	a	b	c	d	e	f	Total
CE53C3 24	2&1	3.3.12 4.2.1	1	1	1	1	1			04
CE53C3	4	3.3.1	2	00	04					04
CE53C4	3	3.2.1	3	04	04					08
			4							
			5							
			6							
			7							
			8							
<b>Grand Total</b>										16/20

Q1

①

~~→ b)~~

②

~~→ a)~~

③

~~→ a)~~

④

~~→ a)~~

Q3

2)

→ Difference bet<sup>n</sup> rigid and flexible pavement

flexible pavement	Rigid pavement
-------------------	----------------

1) In the flexible pavement the flexibility is low and negligible	1) In the Rigid pavement the flexibility is significant
---	---

2) The load transmission is at the grain to grain contact	2) The load transmission is at the layer to layer contact.
---	--

3) If the failure at the bottom and it's appear at the top surface	3) If the failure at the bottom and it's appear on slab of bridge.
--	--

4) No joints are required.	4) In this Expansion and contraction joints are provided
----------------------------	--

5) The Initial cost is low and maintenance cost is high	5) The initial cost is high and maintenance cost is low
---	---

~~3)~~ layers:

wearing course	SC
base course	BC
sub base course	SBC
subgrade	SG

layers:

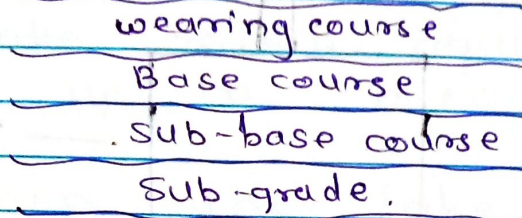
base course	SC
sub base course	BC
subgrade	SG



3.

①

→ Flexible pavement :-



- Flexible pavement is the flexibility are provided in the road.

- Flexibility is made in layer to layer or like,

- 1) Sub-grade layer
- 2) sub-base layer
- 3) Base-layer
- 4) Surface layer (wearing course)

- In the flexible pavement the flexibility is low and negligible.

- The load transformation of the flexible pavement is grain to grain contact.

- ~~The~~ Failure of the surface is at bottom of surface it appears the top of surface.

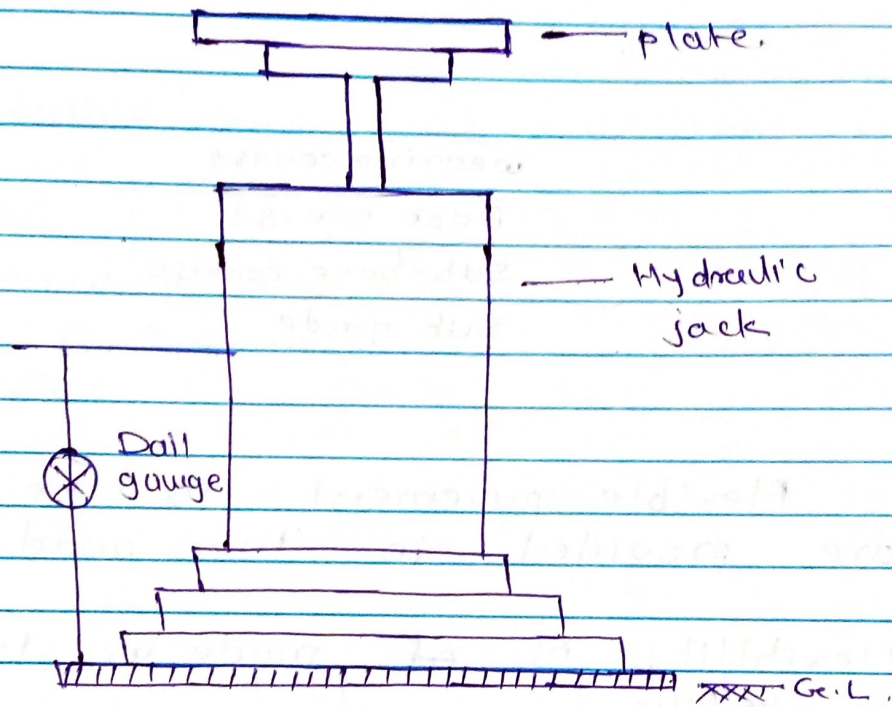
- In this pavement it is not required to provide the joints.

- The initial cost is low but maintenance cost is high.

Q2.

②

→ Plate load test :



In this the  
Apparatus : hydraulic jack , plates ,  
bitumin , glycerin .

Procedure :-

First of all <sup>take</sup> bitumen  
in jar.

- The ~~in~~ bitumen melt on 75 to 100°C  
temp.

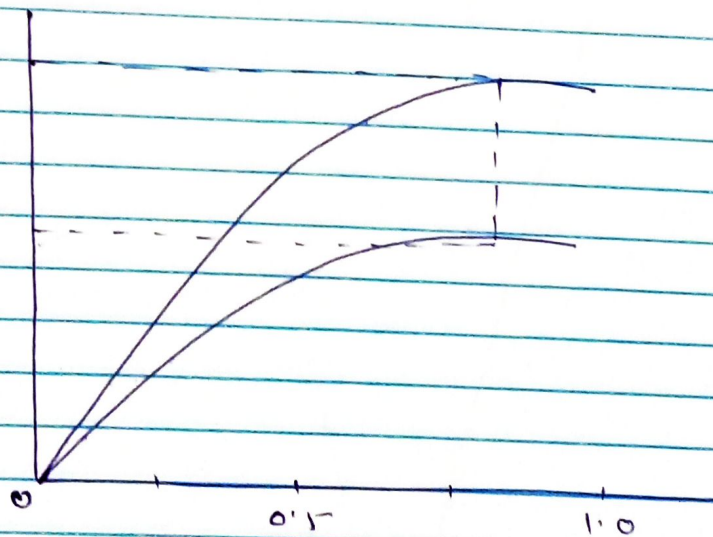
- And then this bitumen take and  
cool it at means bitumen &  
make contact with air for  
30 min.

- Then ~~#~~ make a balls of bitumen  
and put it on the plate  
load test machine.

- First load of

- First given the of 0.707 load applied on this and then set the the load at zero.
- The the 2<sup>nd</sup> load is applied on this  $\epsilon$  is 0.25.
- And take reading again load is applied up to 0.75.
- And then the take a reading of this.

$$p = \frac{\text{load}}{\text{Area}}$$





**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

**In Semester Examination (ISE)**

**Result**

**SVERI'S COLLEGE OF ENGINEERING, PANDHARPUR**  
**STUDENT MARK EVALUATION REPORT**

ACADEMIC YEAR:

DEPARTMENT: CIVIL ENGINEERING

PROGRAM: UNDER GRADUATE IN CIVIL ENGINEERING

CLASS: THIRD YEAR

SEMESTER: SEMESTER 1

DIVISION: A

COURSE: DESIGN OF STEEL STRUCTURES (CE51C)

TOOL NAME: ISE-1

NO. OF QUESTIONS: 4

Minimum Passing Marks: 08

TOOL MAXIMUM MARKS: 20

Target Level (% Target Marks for CO Attainment): 60

Roll No.	Name of Student	Linked CO	CE51C.1	CE51C.2	CE51C.1	CE51C.2
		Max. Marks for Question	2	2	8	8
		Que. No./ Total Obtained Marks	Q1	Q2	Q3	Q4
1	ASHTUL SAYLI VIJAY	14	2	1	7	4
2	CHAVAN AISHWARYA ROHIDAS	14	1	1	8	4
3	CHAVARE NAMRATA DINKAR	13	1	1	5	6
4	DESHMUKHE SANIKA GAJANAN	<b>AB</b>				
5	KAMBLE KAJAL SHRAVAN	16	1	1	7	7
6	KARANDE PRIYANKA PRATAP	17	1	2	7	7
7	KAWADE RUTUJA MAHESH	8	2	2	4	0
8	KOLI PRIYANKA IRANNA	18	2	2	8	6
9	KUMBHAR AISHWARYA PRADIP	16	1	1	8	6
10	LATAKE DIVYA RAJENDRA	17	2	2	6	7
11	MANE AAKANKSHA JAGANNATH	20	2	2	8	8
12	NAGANE POOJA DADASAHEB	14	2	2	6	4
13	RONGE SNEHAL NAVNATH	18	2	2	8	6

14	SHAIKH ALVIRA AMIN	10	2	2	4	2
15	SURVASE ANISHA AMAR	13	1	2	6	4
16	TENGALE SHIVALINGAMMA CHANDRAKANT	16	2	2	8	4
17	ANUSE BAPU SADASHIV	<b>AB</b>				
18	BANDGAR RAMESH BAPU	17	2	1	6	8
19	BANSODE AJAY BHAGWAT	16	2	2	7	5
20	CHAVAN PRATHMESH LAXMAN	11	2	2	6	1
21	CHAVAN SWARUP RAJARAM	18	2	1	7	8
22	DHULAGUDE SWAPNIL MAHADEV	16	2	1	8	5
23	GHADGE VISHWAJEET SANJAY	11	2	1	8	0
24	HIPPARGI SAMARTH PRAKASH	18	2	2	6	8
25	HOTKAR VITTHAL SAINATH	15	1	1	5	8
26	KARE PRATIK DADA	10	2	2	5	1
27	KHALADKAR ABHIJIT ASHOK	12	2	1	4	5
28	LENDAVE SANKET CHANDRAKANT	17	2	2	8	5
29	MADANE GOPAL DATTA	17	2	1	8	6
30	MASHALE RAHUL MANAGENI	14	2	2	8	2
31	METAKARI TUKARAM SHANKAR	<b>AB</b>				
32	NILGAR AVINASH SHARANAPPA	20	2	2	8	8
33	NILGAR VIGHNAHAR SHARAD	19	2	1	8	8
34	NIMBAL ABHISHEK SURESH	19	2	2	8	7
35	NIMBALKAR YASH SATISH	8	0	0	8	0
36	PADVALE MAHESH LAXMAN	18	2	2	8	6
37	PATIL OM VIVEKANAND	10	2	1	7	0
38	RONGE RAJ MOHAN	12	1	1	7	3
39	SHEGAR AKASH SUBHASH	10	1	1	6	2
40	SHEJAL DATTATRAY MARUTI	<b>AB</b>				

41	SHINDE YUVRAJ SITARAM	12	2	1	6	3
42	SUNAGAR SURESH BHIMANNA	15	2	2	7	4
43	TUKAMALI BHEEMASHANKAR RAJASHEKHAR	20	2	2	8	8
44	WAGHAMODE SHRAVAN SURYAKANT	18	2	2	7	7

**SVERI'S COLLEGE OF ENGINEERING, PANDHARPUR**  
**STUDENT MARK EVALUATION REPORT**

ACADEMIC YEAR:

DEPARTMENT: CIVIL ENGINEERING

PROGRAM: UNDER GRADUATE IN CIVIL ENGINEERING

CLASS: THIRD YEAR

SEMESTER: SEMESTER 1

DIVISION: A

COURSE: HIGHWAY AND TUNNEL ENGINEERING (CE53C)

TOOL NAME: ISE-1

NO. OF QUESTIONS: 3

Minimum Passing Marks: 8

TOOL MAXIMUM MARKS: 20

Target Level (% Target Marks for CO Attainment): 60

Roll No.	Name of Student	Linked CO	CE53C.1, CE53C.2	CE53C.1	CE53C.2
		Max. Marks for Question	4	8	8
		Que. No./ Total Obtained Marks	Q1	Q2	Q3
1	ASHTUL SAYLI VIJAY	20	4	8	8
2	CHAVAN AISHWARYA ROHIDAS	20	4	8	8
3	CHAVARE NAMRATA DINKAR	20	4	8	8
4	DESHMUKHE SANIKA GAJANAN	17	4	6	7
5	KAMBLE KAJAL SHRAVAN	18	4	6	8
6	KARANDE PRIYANKA PRATAP	20	4	8	8
7	KAWADE RUTUJA MAHESH	9	4	4	1
8	KOLI PRIYANKA IRANNA	0	0	0	0
9	KUMBHAR AISHWARYA PRADIP	16	4	6	6
10	LATAKE DIVYA RAJENDRA	18	4	6	8
11	MANE AAKANKSHA JAGANNATH	19	3	8	8
12	NAGANE POOJA DADASAHEB	17	4	8	5
13	RONGE SNEHAL NAVNATH	18	4	6	8



14	SHAIKH ALVIRA AMIN	9	4	4	1
15	SURVASE ANISHA AMAR	17	4	7	6
16	TENGALE SHIVALINGAMMA CHANDRAKANT	15	4	5	6
17	ANUSE BAPU SADASHIV	0	0	0	0
18	BANDGAR RAMESH BAPU	0	0	0	0
19	BANSODE AJAY BHAGWAT	16	4	5	7
20	CHAVAN PRATHMESH LAXMAN	16	4	8	4
21	CHAVAN SWARUP RAJARAM	19	4	8	7
22	DHULAGUDE SWAPNIL MAHADEV	18	4	6	8
23	GHADGE VISHWAJEET SANJAY	10	4	6	0
24	HIPPARGI SAMARTH PRAKASH	18	4	7	7
25	HOTKAR VITTHAL SAINATH	11	4	7	0
26	KARE PRATIK DADA	11	4	4	3
27	KHALADKAR ABHIJIT ASHOK	0	0	0	0
28	LENDAVE SANKET CHANDRAKANT	18	4	7	7
29	MADANE GOPAL DATTA	20	4	8	8
30	MASHALE RAHUL MANAGENI	17	4	7	6
31	METAKARI TUKARAM SHANKAR	0	0	0	0
32	NILGAR AVINASH SHARANAPPA	20	4	8	8
33	NILGAR VIGHNAHAR SHARAD	20	4	8	8
34	NIMBAL ABHISHEK SURESH	20	4	8	8
35	NIMBALKAR YASH SATISH	9	4	5	0
36	PADVALE MAHESH LAXMAN	19	4	7	8
37	PATIL OM VIVEKANAND	10	4	6	0
38	RONGE RAJ MOHAN	18	4	6	8
39	SHEGAR AKASH SUBHASH	14	4	6	4
40	SHEJAL DATTATRAY MARUTI	0	0	0	0

41	SHINDE YUVRAJ SITARAM	19	4	8	7
42	SUNAGAR SURESH BHIMANNA	20	4	8	8
43	TUKAMALI BHEEMASHANKAR RAJASHEKHAR	17	4	6	7
44	WAGHAMODE SHRAVAN SURYAKANT	18	4	7	7



**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

# **Internal Continuous Assessment (ICA) Circular**



Shri Vitthal Education & Research Institute's  
**COLLEGE OF ENGINEERING, PANDHARPUR**

P.B.No. 54, Gopalpur - Ranjani Road, Gopalpur, Pandharpur - 413 304, Dist. Solapur (Maharashtra) Tel.: 7755990201.

Tel Free No.:- 1800-3000-4131, E-mail: coe@sveri.ac.in, Website: www.sveri.ac.in (Approved by A.I.C.T.E., New Delhi and Affiliated to Solapur University, Solapur)

Accredited by The Indian Institution of Engineers (India), Kolkata and TCS, Pune. ISO 9001:2008 Certified Institute



Ref.:- COEPR/2017-18/66108

Date:- 03/04/2018

**Circular**

All the staff and students are hereby informed to note that the modified policy for giving Internal Continuous Assessment (ICA) (term work) marks is as per the details given below:

**PART-I: Continuous Evaluation**

Sr. No.	Particular	Split of Marks out of 25	
		For subjects with practice Session	For subjects without practice Session
<b>A. Subjects with only Assignments / Tutorials</b>			
		<b>A1</b>	<b>A2</b>
1.	Assignment / Tutorial (Timely submission and presentation of write up)	08	10
2.	Attendance in Practice Session	04	00
3.	Unit Tests (03 tests X 02 Marks)	06	06
4.	PPPE write up	05	07
5.	Oral	02	02
	<b>Total</b>	<b>25</b>	<b>25</b>
<b>B. Subjects with Lab Practical and Assignments / Tutorials</b>			
		<b>B1</b>	<b>B2</b>
1.	Assignment / Tutorial (Timely submission and presentation of write up)	03	04
2.	Lab Book (Timely submission and presentation of write up)	05	06
3.	Attendance in Practice Session	03	00
4.	Unit Tests (03 tests X 02 Marks)	06	06
5.	PPPE write up	04	04
6.	Oral	02	02
7.	Lab Tests	02	03
	<b>Total</b>	<b>25</b>	<b>25</b>
<b>C. Subjects with only Lab Practicals without Theory Paper</b>			
		<b>C1</b>	<b>C2</b>
1.	Lab Book (Timely submission and presentation of write up)	06	06
2.	Timely completion of Practical	05	05
3.	PPPE write up	02*	02*
4.	Oral	05	05
5.	Lab Tests	07	07
	<b>Total</b>	<b>25</b>	<b>25</b>

*B. Range*

Note: \*For the subjects with no theory lectures, these one mark should be added to "Timely Completion of Practical and Performance" and "Lab Book (Timely submission and presentation of write up)" making corresponding marks as '06', '06' and '07', '07', respectively.

### Part-II: Attendance and Professional Behavior

#### A. Effect of Attendance on ICA (Term Work) Marks

Sr. No.	Percentage Attendance.	Variation in the Final Marks
1	100	+3
2	95-99	+1
3	90-94	No Effect i.e. 0
4	85-89	-2
5	80-84	-3

B. Total marks obtained by a student will be further smoothened /modified based on general behavior and participation of the student. The authority to smoothen/modify the marks based on this point shall be with HoD. However, exceptional cases be taken to Principal through Dean Students.

#### Note:

1. The detailed procedure for continuous evaluation and allocating marks with respect to each of the tools as per the type of subject is given in **Annexure-I**.
2. The above policy is for subjects having ICA (Term Work) marks out of 25. For the subjects having ICA marks other than 25, proportional conversion of the ICA (Term Work) marks be done.
3. Soft copy of the excel Sheets as per the type of subjects will be loaded on the FTP for assisting students to verify the correctness in their Term Work marks.
4. The earlier circular on 5+2 point formula dated 20/10/2014 with ref no. COEPR/2014-15/CIR/33 stands cancelled w.e.f 01/01/2018.
5. All the subject teachers have to update their files with this Circular in place of the previous circular dated 20/10/2014.

**All the concerned should take the note of the above and act accordingly.**

*B. Ronge*  
(Dr. B. P. Ronge)  
PRINCIPAL



### Annexure-I: Progressive Assessment Guidelines

**I ] Progressive Assessment of Lab Books, Assignments or tutorials should be assessed out of 25 Marks for each Lab Practical/Assignment/Tutorial**

1. **Lab Book** shall be assessed as given below:

Attendance	Performance in Lab	Submission	Presentation	Oral	Total
Out of 5 Marks	Out of 5 Marks	Out of 5 Marks	Out of 5 Marks	Out of 5 Marks	Out of 25 Marks

**Attendance:** If the student is present for practical session should be given 5 marks, if he/she performs same practical in next session allot him/her 4 marks and reduce 1 mark for each subsequent session. Minimum 1 mark should be given if he/she performs practical during the semester.

**Performance in Lab:** Teacher should observe the performance of individual student e.g. Initiative, Reading taking, etc. It is expected to observe the student how he/she performs at the time of practical session. Faculty members should ensure that every student take initiative and perform the practical and in such cases accordingly 5 marks be given. Marks be allotted as per the involvement of the students.

**Submission:** Students are supposed to submit lab book in time. If he/she submits the practical writeup in same or immediate next practical session, give 5 marks and if he/she fails to submit 1 mark each be reduced for every subsequent session. If he/she submits the lab book thereafter during the semester 1 mark be given. And if he/she submits lab book during the semester 1 mark be given.

**Presentation:** Teacher should assess the lab book by verifying the neatness, content of write up, results and conclusion. This is subjective, if teacher finds lab work as per requirements 5 marks be given. Results and conclusion shall be based on what is understood/observed by the student and how the output is interpreted by the student.

**Oral:** Student be asked queries related to practical/ theory, and based on student's performance marks be allotted.

**Note: For B1 and B2:** The total marks of all experiments in Lab Book be converted out of 5 /6 marks at Sr. No. 1 under B in PART-I i.e. "Lab Book (Timely submission and presentation of writeup)", as the case may be.

**For C1 and C2:** The total marks of all experiments in Lab Book be converted out of 6 /7 marks at Sr. No. 1 under C in PART-I i.e. "Lab Book (Timely submission and presentation of writeup)", as the case may be, and marks related to Sr. No. 2 under C in PART-I i.e. "Timely

B. Dose



completion of Practicals" be linked with the attendance of Practicals and be converted out of 5/6 marks as follows:

Attendance in %*	Marks
100	5/6
95-99	4/5
90-94	3/4

Attendance in %*	Marks
85-89	2/3
80-84	1/2
Below 80 and Completed by extra sessions	0/1

\* Sanctioned leave be considered as attendance after completion of the particular practical during extra session.

2. Each Assignment be assessed on the basis of timely submission (10 M), presentation (10 M) and oral (5 M)

Timely Submission	Presentation	Oral	Total
Out of 10 Marks	Out of 10 Marks	Out of 5 Marks	Out of 25 Marks

**Timely Submission:** Student is supposed to submit the assignment within the stipulated time to get full marks. If student fails to submit the assignment in time, 1 mark each for every late day be reduced. However, thereafter for the submission of the assignment during the semester he/she be given 2 marks.

**Presentation:** Presentation of assignment be judged based on contents, neatness, completeness, etc.

**Oral:** Questions on assignment be asked to verify the understanding of the student. If the student fails to answer, he/she be asked to prepare and appear for the oral once again. Marks be given based on oral performance.

*Note: The total marks of all assignments in the assignment book be converted; out of 8 or 10 at Sr. No. 1 under A1 and A2, respectively and out of 3 or 4 at Sr. No. 1 under B1 and B2, respectively in PART-I i.e. "Assignment / Tutorial (Timely submission and presentation of write up)".*

B. P. Jc

**II] Progressive Assessment for "Attendance in Practice Session":**

- Attendance record of practice sessions be maintained separately.
- "Attendance in Practice Session" marks at Sr. No. 2 under A at A1 and Sr. No. 3 under B at B1 in PART-I be allotted based on attendance of practice sessions as given below:

Sr. No.	Percentage of Practice Session Attendance*	A1	B1
1	100	4	3
2	90-99	3	2
3	85-89	2	1
4	80-84	1	1
5	75-79	0	0
6	Below 75	-1	-1

\* Rounding be done to upper integer number

**III] Progressive Assessment for "Unit Tests" (6 Marks):**

- Minimum 3 unit tests be conducted as per ESE pattern i.e. 20% MCQs and 80% subjective questions.
- These tests be on syllabus of Unit No. 1, 3, 5, etc.
- **Final ICA (Term Work) marks distribution be as follows:**

Sr. No.	Particulars	Percentage marks in all the tests together	Marks to be given out of 6
1.	Student passes in all unit tests	80 and Above	6
2.	Student passes in all unit tests	70 and Above	5
3.	Student passes in all unit tests	60 and Above	4
4.	Student passes in all unit tests	50 and Above	3
5.	Student fails in or remains absent for any one of the unit tests	-	2
6.	Student fails in or remains absent for any two of the unit tests	-	1
7.	Student fails in or remains absent for all the unit tests	-	0

**Note:**

1. Above provisions are for subjects with 70 marks ESE. Modifications be made accordingly, for subjects having different marks for ESE.
2. Student, failing in or remaining absent for the test or willing to improve, at his/her choice may opt for retest, within 5 days from the date of declaration of the result, once for each test by paying charges of Rs. 100/- per test. Best performance be retained.

*B. Pange*





**IV] Progressive Assessment for “PPPE write up”:**

- PPPE write up be checked at every practical/tutorial session by respective teacher.
- If there is no practical/tutorial session, one day in the week be decided by the concerned teacher for getting PPPE write up checked.
- Assessment Marks for each session be out of 10 and be given based on the following criterion:

<b>Submission</b>	<b>Presentation</b>	<b>Oral</b>	<b>Total</b>
(Out of 5 Marks)	(Out of 3 Marks)	(Out of 2 Marks)	(Out of 10 Marks)

**Submission:** Five (5) marks be given if the student submits the PPPE writeup in immediate next practical/tutorial session or the day assigned, as the case may be. If there is delay in submission, 1 mark each be reduced for every subsequent session. However, 1 mark be given for submission thereafter during the semester.

**Presentation:** Teacher should assess the PPPE write up by verifying the neatness, contents, completeness, etc. of the write up. Three (3) marks be given, if the teacher finds PPPE write up as per the requirements.

**Oral:** Questions on PPPE writeup be asked to verify the understanding of the student. If the student fails to answer, he/she be asked to prepare and appear for the oral once again. Marks be given based on oral performance.

*Note:* The total marks of all PPPE write up be converted; out of 5 or 7 at Sr. No. 4 in A under A1 and A2, respectively, out of 4 at Sr. No. 5 in B under both B1 and B2, and out of 2 at Sr. No. 3 in C under both C1 and C2, if applicable, in PART-I i.e. “PPPE write up”.

**V) Progressive assessment for “Lab Tests”:**

- Two Lab Tests be conducted during the semester, in line with first two ISEs, for the subjects where students have to perform experimental practicals.
- Weightage for each Lab Test be of 20 marks as per the distribution given below:

<b>Conduct of Experiment</b>	<b>Presentation</b>	<b>Results and Conclusion</b>	<b>Oral</b>	<b>20 Marks</b>
Out of 10	Out of 3	Out of 5	Out of 2	Out of 20

**Conduct of Experiment:** Ten (10) marks be given if the student conducts experiment as per the standard procedure of the experiment. If the experiment is not completed, appropriate marks be given based on number of steps completed.

**Presentation:** Teacher should assess the Lab Test write up by verifying the neatness, contents, completeness, etc. of the write up. Three (3) marks be given, if the teacher finds the write up as per the requirements.

*B. B. Singh*

**Results and Conclusion:** Five (5) marks be given if the results are appropriate and proper conclusion is drawn.

**Oral:** Questions on Lab Test be asked to verify the understanding of the student. If the student fails to answer, he/she be asked to prepare and appear for the oral once again. Marks be given based on oral performance.

**Final ICA (Term Work) marks distribution be as follows:**

Sr. No.	Particulars	Percentage marks in all the tests together	B1 (Out of 2 Marks)	B2 (Out of 3 Marks)	C1 and C2 (Out of 7 Marks)
1.	Student passes in all Lab Tests	80 and Above	2	3	7
2.	Student passes in all Lab Tests	70 and Above	1	2	5
3.	Student passes in all Lab Tests	60 and Above	1	1	4
4.	Student passes in all Lab Tests	50 and Above	1	1	3
5.	Student fails in or remains absent for any one of the Lab Tests	-	0	0	0
6.	Student fails in or remains absent for all the Lab Tests	-	-1	-1	-1

**Note:**

*Student, failing in or remaining absent for the Lab Tests or willing to improve, at his/her choice may opt for retest, within 5 days from the date of declaration of the result, once for each test by paying charges of Rs. 100/- per Lab Test. Best performance be retained.*

B. Panje



**Shri Vitthal Education & Research Institute's  
College of Engineering, Pandharpur**

# **Internal Continuous Assessment (ICA) Tools**

- **Assignment**
- **Journal**
- **Chapter Test/Unit Test (CT/UT)**
- **Lab Test (LT)**



**Shri Vithal Education & Research Institute's  
College of Engineering, Pandharpur**

# **Internal Continuous Assessment (ICA) Tools**

## **Assignment**

## INDEX

### (Assignment / Tutorial Book Assessment)

Sr. No.	Title of Assignment / Tutorial	Page No.	CO	Date		Marks (25)			Total Marks (25)	Sign.
				Given	Checked	Timely Submission (10)	Presentation (10)	Oral (5)		
1)	Ingredients of concrete Cement.	1-10	1,2	17/8	3/9	10	9	3	22	<del>Nishu 21/8</del>
2)	Ingredients of concrete etc Coars Agg & fine agg of water.	11-16	1,2	4/9	2/10	10	9	3	22	<del>Nishu 21/8</del>
3)	properties of fresh concrete	17-24	3,4	30/9	20/10	10	9	4	23	<del>Nishu 20/10</del>
4)	Desired Properties of concrete.	24-28	4	22/10	10/11	10	9	4	23	<del>Nishu 10/11</del>
5)	Creep And Shrinkage	29-34	5	16/11	28/11	10	10	3	23	<del>Nishu 28/11</del>
6)	Durability of concrete.	34-42	5	28/11	6/12	10	10	4	24	<del>Nishu 27/12/23</del>
7)	Concrete Mix Design	42-47	5	6/12	16/12	10	10	4	24	<del>Nishu 16/12</del>
8)	Testing of Materials.	47-51	6	14/12	18/12	10	10	4	24	<del>Nishu 10/12</del>

## CERTIFICATE

This is certify that Mr. / Miss. / Mrs. Salgar Rutuja Sadashiv..... of Class S.Y..... Division B..... Roll No 25..... Semester III..... has completed satisfactorily Assignments/Tutorials in CTMTE..... during the academic year 23-24

Date : 18/12/23  
Subject Teacher

Abhinav  
Head of Department

B. Pongal  
Principal

## INDEX

### (Assignment / Tutorial Book Assessment)

Sr. No.	Title of Assignment / Tutorial	Page No.	CO	Date		Marks (25)			Total Marks (25)	Sign.
				Given	Checked	Timely Submission (10)	Presentation (10)	Oral (5)		
1	Specifications	1	CO-1	18/08	8/9	9	9	4	22	<i>[Signature]</i>
2	Estimation / Measurement of various items	5	CO-2	18/9/23	25/9	9	9	4	22	<i>[Signature]</i>
3	Rate Analysis	13	CO-1	25/9	5/10	9	9	3	21	<i>[Signature]</i>
4	Costing	20	CO-1	5/10	11/10	9	8	3	20	<i>[Signature]</i>
5	Tenders	22	CO-1	12/10	19/10	10	9	4	23	<i>[Signature]</i>
6	principles of valuation	30	CO-5	20/10	15/11	10	9	4	23	<i>[Signature]</i>

## CERTIFICATE

This is certify that Mr. / Miss. / Mrs. Alishakti Abasaheb Jawade of Class L.Y. Division A Roll No. 06 Semester VIII has completed satisfactorily Assignments/Tutorials in Estimation, Costing & Valuation during the academic year 23-24

Date :

Subject Teacher

Head of Department

Principal

*[Signature]*  
28.10.23

*[Signature]*

B-Range

**INDEX**  
(Assignment / Tutorial Book Assessment)

Sr. No.	Title of Assignment / Tutorial	Page No.	CO	Date		Marks (25)			Total Marks (25)	Sign.
				Given	Checked	Timely Submission (10)	Presentation (10)	Oral (5)		
1.	Introduction	1.	1.	9/08	26/08	10	10	5	25	<del>for</del> 28/08
2.	Design of Slab	6.	2	2/108	03/10	9	9	4	22	<del>for</del> 03/10
3.	Limit state of Collapse.	34.	3	4/09	10/10	8	10	4	23	<del>for</del> 10/10
4.	Analysis & Design of Flanged Structure.	39.	4.	24/09	07/11	08	10	04	22	<del>for</del> 07/11
5.	Beam	41.	4	20/10	07/11	08	10	04	22	<del>for</del> 07/11
6.	Design of Beam subjected to combine bending, shear & torsion.	50.	5	03/11	07/11	10	09	03	22	<del>for</del> 07/11
7.	Design of an axially as well as eccentricity loaded column.	60.	6.	20/11	06/12	10	9	4	23	<del>for</del> 06/12/23

**CERTIFICATE**

This is certify that ~~Mr.~~ / Miss. / Mrs. Latake Divya Rajendra of Class T.Y. Division A Roll No 10 Semester I has completed satisfactorily Assignments/Tutorials in DCO - I during the academic year 2023-24

Date : 06/12/23

~~for~~  
Subject Teacher

~~for~~  
Head of Department

B. Rongle  
Principal

## INDEX

### (Assignment / Tutorial Book Assessment)

Sr. No.	Title of Assignment / Tutorial	Page No.	CO	Date		Marks (25)			Total Marks (25)	Sign.
				Given	Checked	Timely Submission (10)	Presentation (10)	Oral (5)		
1)	Design thinking skills-	1-5	CO1	4-24	12-2	10	10	4	24	<del>Nikhil</del> 12-10-24
2)	customer need and product specification	6-12	CO2	8-2	26-2	10	10	4	24	<del>Nikhil</del> 12-10-24
3)	Creativity & prototyping	13-16	CO3	4-3	8-4	10	10	4	24	<del>Nikhil</del> 12-10-24
4)	Products Architecture & financial Analysis	19-21	CO5	5-4	12-4	10	10	4	24	<del>Nikhil</del> 12-5-24
5)	Design for environment	22-25	CO6	20-4	30-4	10	10	5	25	<del>Nikhil</del> 30-5-24
6)	Design for service	26-30	CO4	26-4	2-05	08	10	5	23	<del>Nikhil</del> 12-5-6-24

## CERTIFICATE

This is certify that Mr. / Miss. / Mrs. Bhong Prapti Dattatey ..... of Class 8y..... Division A..... Roll No 03..... Semester IV..... has satisfactorily completed Assignments/Tutorials in DT..... during the academic year 2023-24

Date : 9/5/24  
 Subject Teacher Sahil  
11/14 B. Rongle  
 Head of Department Principal



# INDEX

## (Assignment / Tutorial Book Assessment)

Sr. No.	Title of Assignment / Tutorial	Page No.	CO	Date		Marks (25)			Total Marks (25)	Sign.
				Given	Checked	Timely Submission (10)	Presentation (10)	Oral (5)		
1.	function of management	2	1	24/3	28/3	10	10	4	24	
2.	Importance of decision making.	7	1	25/3	27/4	10	10	4	24	
3.	Decision under uncertainty.	13	2	4/9	10/9	10	10	4	24	
4.	Introduction to lean construction	17	3	9/9	15/9	10	10	4	24	
5.	Inventory control	20	4	17/9	22/9	10	10	4	24	
6.	Construction external resource planning	26	4	24/9	30/9	10	10	4	24	
7.	Quality control.	31	6	30/9	2/5	10	10	4	24	

### CERTIFICATE

This is certify that Mr. / Miss. / Mrs. Jadhav Gauri Sunil of

Class TX Division B Roll No 06 Semester II has satisfactorily completed

Assignments/Tutorials in PMGT during the academic year 2023-24

Date :   
Subject Teacher

Head of Department

Principal

# INDEX

## (Laboratory Book Assessment)

Sr. No.	Title of Experiment	Page No.	CO	Date of Expt.		Marks (25)					Total (25)	Sign.
				Performed	Submitted	Attendance (5)	Performance (5)	Submission (5)	Presentation (5)	Oral (5)		
1	fineness of cement	1	I	25-8	11-9	5	4	5	4	5	23	
2	Standard consistency of cement	3	II	1-9	24-9	5	4	4	5	5	23	
3)	setting time of cement	4	II	24-9	1-10	5	5	4	5	5	24	
4)	Soundness of cement	6	III	4-10	20-10	5	4	4	5	5	23	
5)	Comp strength of concrete	7	I	20-10	23-10	5	4	5	4	5	23	
6)	fineness modulus & grading of aggregate	8	I	23-10	03-11	5	4	4	5	5	23	
7)	Determination of Silt content	11	II	3-11	17-11	5	4	5	5	5	24	
8)	Determination of SP gravity of cement	14	II	17-11	23-11	5	5	4	5	5	24	
9)	sp. gravity of coarse Agg	15	II	24-11	28-11	5	5	4	5	5	24	
10)	Bulk density of agg	19	II	25-11	26-11	5	4	5	5	5	24	
11)	determination of $\alpha_{10}$	23	II	26-12	13-12	5	5	5	4	5	24	
	bulking of fine aggregate	21	II	13-12	25-12	5	5	4	5	5	24	
12)	determination of elongation & flakiness index	25	II	11-9	29-9	5	4	4	5	5	23	
				29-9	1-10	5						
13)	Workability of concrete	27	III	9-10	20-10	5	4	5	5	4	23	
14)	comp. strength of concrete	29	IV	20-10	23-10	5	5	4	5	5	24	
				23-10	03-11							

### CERTIFICATE

This is certify that Mr. / Miss. / Mrs. Bhong Prapti Dattaraya of Class By BTech Division A Roll No 70 Semester III<sup>rd</sup> has completed satisfactorily Experiments in CTMT E during the academic year 2023-24

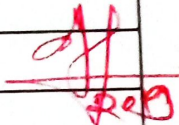



Date :

Subject Teacher

Head of Dept.

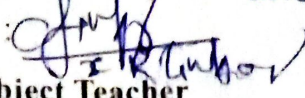
Principal

**INDEX**  
**(Laboratory Book Assessment)**


Sr. No.	Title of Experiment	Page No.	CO	Date of Expt.		Marks (25)						Total (25)	Sign.
				Performed	Submitted	Attendance (5)	Performance (5)	Submission (5)	Presentation (5)	Oral (5)			
1.	Reading Drawing	01	CETIC 1	13/09	20/9	5	5	5	3	3	21		
2.	Market survey	14	CETIC 2	22/09	27/9	5	5	5	3	3	21		
3.	Specification	20	CETIC 1	04/10	13/10	5	5	5	4	3	22		
4.	Rate analysis	27	CETIC 3	17/10	28/10	5	5	5	5	4	24		
			3										

**CERTIFICATE**

This is certify that Mr. / Miss. / Mrs. Ambure Snehal Shankar of  
Class L.Y. Division A Roll No 01 Semester V.II<sup>th</sup> has completed satisfactorily  
Experiments in Estimation, costing during the academic year 2023/24  
and valuation

Date:   
Subject Teacher

  
Head of Dept.

  
Principal

**INDEX**  
**(Laboratory Book Assessment)**

Sr. No.	Title of Experiment	Page No.	CO	Date of Expt.		Marks (25)					Total (25)	Sign.
				Performed	Submitted	Attendance (5)	Performance (5)	Submission (5)	Presentation (5)	Oral (5)		
1	pH value	1-3	1	22-8-23	22/11	5	5	5	5	4	24	<i>[Signature]</i>
2	Total solids	5-6	1	26-9-23	22/11	5	4	5	5	5	24	<i>[Signature]</i>
3	chloride content	7-8	1	3-10-23	22/11	5	5	5	4	3	22	<i>[Signature]</i>
4	sulphate content	9-10	1	17-10-23	24/11	5	5	5	5	5	25	<i>[Signature]</i>
5	BOD & DO	12-13	1	31-10-23	24/11	5	4	5	5	4	23	<i>[Signature]</i>
6	COD	14-15	1	2-11-2023	24/11	5	4	5	5	4	23	<i>[Signature]</i>
7	oil & grease.	18-19	1	24-11	11/12	5	5	5	5	4	24	<i>[Signature]</i>
8	Demonstration of high volume sampler	19-20	1	24-11	11/12	5	5	4	5	5	24	<i>[Signature]</i>
9	Determination Auto Exhaust Analyzer	21-22	1	24-11	11/12	5	5	4	5	5	24	<i>[Signature]</i>

**CERTIFICATE**

This is certify that Mr. / Miss. / Mrs. .... Dubule Pravin Sunil ..... of Class TY ..... Division B ... Roll No 22 ... Semester V .. has completed satisfactorily Experiments in Environmental Engg. - II ... during the academic year 2023-24

Date :

*[Signature]*  
Subject Teacher

*[Signature]*  
Head of Dept.

*[Signature]*  
Principal