HOLY-WOOD ACADEMY'S

# SANJEEVAN

GROUP OF INSTITUTIONS, PANHALA

***Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.***

***BASIC SCIENCE AND HUMANITIES DEPARTMENT***

## Academic Calendar for A.Y. 2024-2025 ( Odd Semester-SEMSTER I )

| Month | Week/ Days | | | | | | | working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| SEPTEMBER | | | | | | | 1 | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 2 TO 21 SEP. Induction Programme,7- Shri Ganesh Chaturthi |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | 15- Engineer's Day |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | | 16- Eid-e-Milad |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 6 | 23 Sep- Commencement of FY Classes ,23 Sep To 27 Sep -FDP-Enginnering Chemistry, 28 Sep -Industrial Visit |
| | 30 | | | | | | | 1 | |
| OCTOBER | | 1 | 2 | 3 | 4 | 5 | 6 | 3 | 2- Mahatma Gandhi Jayanti. |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 5 | 11 Oct- Guest Lecture ,12-Dussehra |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 5 | 14 oct To 18Oct -FDP-Engineering Physics |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 6 | 22 To 23 Oct -CA 01 ,26 Oct -Painting workshop |
| | 28 | 29 | 30 | 31 | | | | 4 | |
| NOVEMBER | | | | | 1 | 2 | 3 | 0 | 1- Laxmi Pujan, 2-Bali Pratipada |
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 6 | 8 Nov-Guest Lecture ,9 Nov-Industrial Visit |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 4 | 15- Guru Nanak Jayanti |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 6 | 23 Nov -Coding Workshoop , |
| | 25 | 26 | 27 | 28 | 29 | 30 | | 5 | 25-29 Nov-MSE |
| DECEMBER | | | | | | | 1 | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | 2 To 6 Dec -SDP of Engineering Mathematics / Communication Skills , |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 6 | 14 Dec -Music workshop |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 5 | , 20 Dec - ~~End of Classes~~ |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 5 | 25- Christmas,26 Dec To 27 Dec - CA 02 |
| | 30 | 31 | | | | | | 2 | |
| JANUARY | | | 1 | 2 | 3 | 4 | 5 | 3 | |
| | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 5 | 11 Jan-End of classes, |
| | 13 | 14 | 15 | 16 | 17 | 18 | 19 | | 13-15 Jan-practical Exam,17-28 Jan-ESE exam |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | |
| | 27 | 28 | 29 | 30 | 31 | | | | |
| | | | | | | | | | 3 March-Result Declaration,17Feb-Commencement of next Semester |
| Govt. Holiday | | | CA/MSE/Pract. Exam/ESE | | | | | 82 | |
| Activities | | | Institute Holiday | | | | | | |

**Note:** 1. The above dates are subject to change as per the guidelines of regulating authorites.
.....2. In align with this, each Department shall prepare their separate calendar to reflect departmental ..... activities, Industrial Visits and Student Intrenships

Prepared by

HOD

H.O.D.
Department of
Basic Sciences and Humanities

HOLY-WOOD ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur.
Pin- 416 201 (Maharashtra) Phone : 9146999500
Approved By AICTE, New Delhi Recognized by Govt. o. ... 4, DTE, DOA
Permanent Affiliation by Dr. Babasaheb Ambedkar Technolo... University, Raigad
Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.
NAAC Accredited
AICTE ID : 1-8019451
AISHE Code : C-11165
DTE Code : EN6315

Date: 22/10/2024

## NOTICE

All students of 1st year engineering (F.E) are informed that the **continuous assessment-I (CA-I)** is scheduled on **25th October, 2024**. The time table for the same will be displayed soon.

**NOTE: Exam should not be re-conducted at any cost.**

**Exam Coordinator.**

**H.O.D.**

DTE Code : EN6315

NAAC Accredited

AICTE ID : 1-8019451
AISHE Code : C-11165

HOLY-WOOD ACADEMY'S
SANJEEVAN
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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
Affiliated to Shivaji University, Kolhapur, MSBTE, Mumbai

DATE: 23/10/2024

**F.Y.B.Tech Sem-I** **Time Table(CA - I)** **A.Y. 2024-25**

| Sr. No. | Date | Time | Subject | |
|---|---|---|---|---|
| | | | Div A & B | Div C & D |
| 1 | 25/10/2024 | 10:00 to 10:30 | Engg. Chemistry | Engg. ~~Physics~~ Maths-I |
| | | 11:00 to 11:30 | Engg. Mechanics | Basic Electrical and Electronics |
| | | 12:00 to 12:30 | PPS | Basic Civil and Mechanical |
| | | 02:00 to 02:30 | Communication skills | Engg. Graphics |
| | | 03:00 to 03:30 | Engg. Maths I | Engg. ~~Maths I~~ Physics |

Exam Co-ordinator

H.O.D

Head of Department
Basic Sciences & Humanities(Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Basic Sciences & Humanities (Degree)
PANHALA

DTE Code : EN6315

NAAC Accredited

AICTE ID : 1-8019451
AISHE Code : C-11165

HOLA-WOOD ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
Sanjeevan Knowledge City, Somwar Peth-Insafe, Panhala, Tal. Panhala, Dist. Kolhapur
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- Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.

DATE: 22/10/2024

## NOTICE

All faculties of 1st year DBATU are hereby informed that the continuous assessment-I (CA-I) is scheduled on 25th October, 2024. All are requested to prepare a question paper in the prescribed format.

**NOTE:** Please submit the question paper in required number (in sealed condition) on or before 24th October, 2024 without fail to Mr. Sangram Chopade sir.

| Sr. No. | Name of Faculty | Sign |
|---|---|---|
| 1 | Ms. Ni. G. Khan. | |
| 2 | Ms. Na. G. Khan | 23/10/24 |
| 3 | Ms. S. D. Chavan | |
| 4 | Mr. V. V. Magdum | |
| 5 | Dr. R. P. Mane | |
| 4 | Ms. S. A. Sayyad | |
| 5 | Ms. R.S. Bore | |
| 6 | Mr. V. V. Vanmore | |
| 7 | Mr. S. A. Patil | |
| 8 | MR. S. R. Suryavanshi | |
| 9 | Mr. S. P. Nangare | |
| 10 | Mr. S. R. Salokhe | |
| 11 | Mr. R. V. Khopade | |
| 12 | Mr. A. M. Mule | |

Exam Coordinator

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Basic Sciences & Humanities (Degree)
PANHALA

H.O.D

Head of Department
Basic Sciences & Humanities(Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

| | |
|---|---|
| | **DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.** |
| | Sanjeevan Group of Institutions, Panhala. |
| | **Department of Basic Sciences and Humanities** |
| | **CA-I** |
| | **SEMESTER:** 1st |
| | **NAME Of STUDENT:** |
| | **CLASS:F.Y.** B. Tech. |
| | **DAY & DATE:** Friday 25/10/2024 |
| | **SUBJECT: Engineering Chemistry** |

| | |
|---|---|
| **ACADEMIC YEAR:**2024-25 | |
| **ROLL No.:** | |
| **MARKS:** 10 | |
| **Time:** 10:00 to 10:30 | |

## INSTRUCTIONS:

1. All questions are compulsory.
2. Circle the correct answer option for objective questions.
3. Illustrate your answer with neat sketches, diagrams etc. whenever necessary.

| Q. No. A | Choose the correct option for given following questions. | CO | PO | BL | Marks |
|---|---|---|---|---|---|
| 1. | **Select the wavelength range corresponding to UV –visible region.**<br>a) 400-800nm b) 200-800nm c) 25μm -2.5μm d) 2.5μm-1mm | 1 | 1 | BL1 | 1 |
| 2. | **Infrared radiation used in the IR spectrum is.....**<br>a)4000-650cm$^{-1}$ b) 12500-4000 cm$^{-1}$ c) 200-10 cm$^{-1}$ d)200-800 nm | 1 | 1 | BL1 | 1 |
| 3. | **Hardness of water is due to the presence of salts of .....**<br>a) Potassium b) Chlorine c) Magnesium d) Boron | 1 | 1 | BL1 | 1 |
| 4. | **Which of the following is not transparent to IR radiation.**<br>a)sodium chloride b)calcium bromide<br>c)Potassium bromide d)Glass | 1 | 1 | BL1 | 1 |
| 5. | **IR region most widely used for qualitative analysis is.**<br>a) Near IR b) Mid IR c) Far IR d) All the above | 1 | 1 | BL1 | 1 |

| Q. No. B | Solve any One descriptive question of given following. | CO | PO | BL | Marks |
|---|---|---|---|---|---|
| 1. | State Beer Lamberts Law?<br>OR<br>Define a) Hard water b) Soft water | 1 | 1 | BL2 | 2 |
| 2. | Explain applications of UV visible Spectroscopy?<br>OR<br>Explain Principal and working IR Spectroscopy? | 1 | 1 | BL3 | 3 |

********** END **********

HOLY- WOOD ACADEMY'S,

# SANJEEVAN GROUP OF INSTITUTIONS - POLYTECHNIC

Sanjeevan Knowledge City, Somwarpeth, Panhala, Dist. Kolhapur. Pin.416 201

Name of the Student : Model answer sheet/Phy/ CA -I

Class : Roll No. :

Subject : Engg. Physics Date :

Language of Answer

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total | out of | Examiner's Sign. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Marks obtained | | | | | | | | | | | | | |

| Main Answersheet + No. of Supplement = Total |
|---|
| 01 + = |

Supervisor's Signature

Q.1

a) Define Echo.

→ A Repetition of sound produced by the reflection of sound waves form a wall, mountain or other obstructing surface.

An Echo is a sound used by the reflection of sound waves form a surface back to the listener. it is the reflection of sound ariving at the listener some time after the direct sound.

b) Write at least two properties of ultrasonic Wave

→ i) They have high energy content.

ii) Just like ordinary sound waves ultrasonic waves get reflected, refracted and absorbed

iii) They can be transmitted over large distances with no appreciable loss of energy.

iv) They can travel through vaccum.

c) Write two laws of pizoelectric generator for production of ultrasonic waves

→ The two laws of pizoelectric generators for production of ultrasonic waves are.

i) Direct pizoelectric effect

If mecha

c) Write two laws of reflection of sound.

1st law : The angle of incidence is equal to the angle of reflection.

2nd law :- The incidet sound waves, The reflected sound waves and the normal all lie in the same plane.

d) Write principle of piezoelectric generator for production of ultrasonic waves?

→ If machanical pressure is applied to one pair of opposite faces of certain crystals like quartz appear across its other faces. This effect is called as pizoelectric effect

e) What is absorption coefficient?

→ The absorption coefficient ($\alpha$) of sound is a measurment of materials ability to absorb sound energy It is represented by greek letter '$\alpha$'. It is calculated by following eqn

$$\alpha = \frac{\text{absorbed sound energy}}{\text{incident sound energy}}$$

The value of $\alpha$ varies between 0 to 1 with '0' indicating total reflection and '1' indicating total absorbtion.

Q.2 Attempt any one question.

a) Write in detail the production of ultrasonic waves by magnetostriction method.

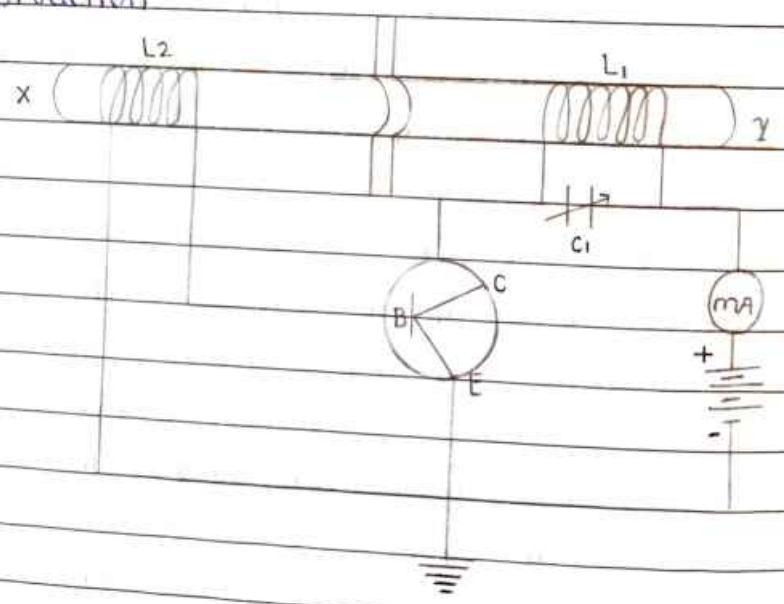
→ Principal.

When Ferromagnetic rod like iorn or nikel is placed in magnetic filed parallel to its ~~tenge~~ length, the rod expriancess a small changes in its length.

This is called 'Magnetostrication effect'

The change in length (increseess or decreseess) produced in the rod depend upon the striant of material it is independnt direction of the magnetic filed applaing.

Constraction




- X, Y rod of Ferromagnetic material like iorn or nikel the rod is clamped in the meddle.
- The alternating magnetic filed is genreted by an eleronic osiciallater C.

iii) The coil $L_1$ wound the right hand projection of the rod along with variable capictor $C_1$

iv) This forms the resonance circuit of the collector tuned osicilator.

v) The frequency of osicilator is controled by the variable capictor.

vi) The coil $L_1$ wound the left hand prostion of the conected to the base circuit. the coil $L_2$ act to feedback loop.

Working

i) When high tension (H.T) battery is switched on collector circuite osicillator with a frequency

$$\boxed{f = \frac{1}{2\pi}\sqrt{L.C}}$$

This alternating current flowing through the coil $L_1$ producess and alternating magnetic filed along the length of rod the result is that the rod starts vabreting to magnetostriction effect. the frequency of vibration of rod is given by

$$\boxed{f = 1/2l \sqrt{Y/\rho}}$$

When $l$ is length of the rod

$Y$ is young's moduleuis

$\rho$ is Density or rod material

The capictor $C_1$ is addjecented so that the frequncy of the oscillatroy circuit is equal to natural frequency of the rod and thus resonace take place

vibrating longitudinally with maximum and genrat ultrasonic of high frequency form its ends.

Advantages

i) The design of this oscillator is very simple and production cost low.

Disadvantages

i) It has low upper frequency limit and cannot generate ultrasonic frequency above 3000 KHz (i.e 3 MHz).

ii) The frequency-osicillator depends on temperature

b) Write in detail about acoustical planning of building?

→ Acoustical impacts every thing form employee productivity in office settings to performs quality in auditorium, to the market value of apartments as well as single family homes.

Building acoustics involves both the control noise with in an enclosed space and the reduction of noise betn rooms or form either outside or inside a building.

by arranging the varies elements like window, door, gallery, courtyards by proper Acoustic planing, unwanted noise can be reduced with in the building. below are some points helpful for marking the buildings noise susceptible.

# SANJEVAN ENGINEERNG & TECHNOLOGY INSTITUTE, PANHALA

## Department Of Basic Sciences And Humanities

### Attendance sheet

Exam- CA- I

Course- F.Y. B.Tech

Subject- Engg. ~~Chemistry~~ Physics I

Date- 25-10-2024

A.Y.2024-25 SEM-I

Block No. A-206

Subject ~~code~~- Engg. Physics

Time- 3 to 03:30

| Roll No. | Name of Students | Sign |
|---|---|---|
| 101 | ADITYA DINKAR PATIL | |
| 102 | BAWADEKAR SARTHAK RAHUL | |
| 103 | BHASKAR SANJIVANI KRISHNAT | |
| 104 | BHITTAM VIVEK BHAGAVAN | |
| 105 | BHONDAVE AKANKSHA DHANAJI | |
| 106 | BHOSALE GAYATRI HINDURAO | |
| 107 | BHOSALE RUTUJA RAMESH | |
| 108 | BHOSALE SANIKA SHASHIKANT | |
| 109 | CHOUGULE SANSKAR SAMBHAJI | |
| 110 | DAVANG VIDYA BALKRISHNA | |
| 111 | DEVAR SHARUK SHEKAR | |
| 112 | DHOTRE VAIBHAV BALU | |
| 113 | DONGALE SMRUTI SHANKAR | |
| 114 | DUKARE SEJAL PRADIP | |
| 115 | GAIKWAD AASHAY ASHOK | |
| 116 | GAIKWAD SAGAR SHASHIKANT | |
| 117 | GAIKWAD VINAYAK KRUSHNAT | |
| 118 | GAVADE SANVI SANJAY | |
| 119 | GAVALI ATHARV KIRAN | |
| 120 | GAWADE NAGARAJ SHITARAM | |
| 121 | GHODAKE PRATIKSHA SATISH | |
| 122 | GORE SANGRAM DADASAHEB | |
| 123 | GURAV SUYOG GANESH | |
| 124 | HAVALDAR SIDDIK SHAUKAT | |
| 125 | HIRDEKAR INDRAJYOT BHAGWAN | |
| 126 | INGAVALE TANUJA AMAR | |
| 127 | JADHAV NIKUNJ NILESH | |
| 128 | JADHAV SWAPNIL MOTILAL | |
| 129 | JAMDAR KARAN ANANDA | |
| 130 | JANKAR VEDANT VIJAY | |
| 131 | KADAM RASIKA KHANDERAO | |
| 132 | KADAM SANIYA RAJENDRA | |
| 133 | KADAM SHRUTIKA SAMBHAJI | |
| 134 | KAMBLE OMKAR ANANDA | |
| 135 | KAMBLE RAJVEER TANAJI | |

| Roll No. | Name of Students | Sign |
|---|---|---|
| 301 | BHOSALE RIYA RAHUL | |
| 302 | KADAM RUSHIKESH YUVRAJ | |
| 303 | KAMBLE RADHIKA AJIT | |
| 304 | LAD SHRAVANI MARUTI | |
| 305 | LAMBE SUDESH RAMESH | |
| 306 | LONDHE SAKSHI GAJANAN | |
| 307 | PATEL AFARIN NISARAHAMAD | |
| 308 | PATIL GAYATRI HANMANT | |
| 309 | PATIL PRATHAMESH GAMA | |
| 310 | PATIL SANMATI PANDURANG | |
| 311 | SUTAR SAYALI ANIL | |
| 312 | ATTAR AHAMADALI RAFIK | |
| 313 | CHOUGALE AKASH BAJARANG | |
| 314 | DESHMUKH AKANKSHA LAXMAN | |
| 315 | DHOBLE RUSHIKESH DEVIDAS | |
| 316 | JANGAM SHIVLING POPAT | |
| 317 | KADAM VIDYA ARJUN | |
| 318 | KANITKAR ATHRAV YUVRAJ | |
| 319 | KHAMKAR SANSKAR TANAJI | |
| 320 | MANDLIK ASAVARI RAKESH | |
| 321 | MANE PREM AMAR | |
| 322 | MANE SIDDHARTH TANAJI | |
| 323 | MOHITE SAMARTH HANUMAN | |
| 324 | PATIL NAMRATA AKARAM | |
| 325 | PATIL SHASHANK VINAYAK | |
| 326 | PATIL SIDHIKESH ANANDA | |
| 327 | PAWAR PATIL VEDIKA RAMDAS | |
| 328 | POWAR SOURABH SANJAY | |
| 329 | PRATIKSHA DAGADU BUDAKE | |
| 330 | REDEKAR ARPITA VASANT | |
| 331 | SANKALP SHIVAJI SATAV | |
| 332 | SATAV VITTHAL DIPAK | |
| 333 | WALVEKAR ADITYA SACHIN | |
| 334 | YADAV SIDDHI DEEPAK | |
| 335 | ZADE SANSKAR YASHWANT | |

Sign of Supervisor

# SANJEVAN ENGINEERNG & TECHNOLOGY INSTITUTE, PANHALA

## Department Of Basic Sciences And Humanities

## Attendance sheet

| | |
|---|---|
| Exam- CA- I | A.Y.2024-25 SEM-I |
| Course- | Block No. A-208 |
| Subject- Engg. Maths I | Subject code- Engg. Physics |
| Date- | Time- |

| | Name of Students | Sign |
|---|---|---|
| | KAMBLE RANJEET BHAGWAN | |
| | KANGANE RITESH BABAN | |
| | KANTHE MANSI RAJESH | |
| | KOLEKAR PARAS BALKRUSHNA ALIAS DEEPAK | |
| | KOLI SARTHAK DEEPAK | |
| 1 | KUMBHAR KEDAR RAVINDRA | |
| 2 | LAMBORE ARCHANA SAKHARAM | |
| 43 | MANE PRANALI PRAKASH | |
| 44 | MANE VAIBHAV BHAIRU | |
| 45 | MENGANE SAKSHI SANJAY | |
| 146 | MESHRAM RAJRATAN VISHAL | |
| 147 | METKARI RAVI RAMESH | |
| 148 | MHAMULKAR MILIND RAVINDRA | |
| 149 | MOHITE SURAJ MAHADEO | |
| 150 | MOLE SALONI UTTAM | |
| 151 | MOLE SAMIKSHA SANJAY | |
| 152 | MORE VAIBHAV VILAS | |
| 153 | NAIK ANUJA ANIL | |
| 154 | NAIK HARSHVARDHAN RAGHUNATH | |
| 155 | NAIKAVADE TANUJA MARUTI | |
| 156 | NALAWADE PRIYANKA DHANAJI | |
| 157 | NANGARE SAKSHI RANJIT | |
| 158 | PANDIT RITIKA RAJENDRA | |
| 159 | PANDIT VIVEK SATISH | |
| 160 | PATIL ADITI ARVIND | |

| Roll No. | Name of Students | Sign |
|---|---|---|
| 336 | PATIL VEDANT KRISHNAT | |
| 337 | SONAVADEKAR RANI ASHOK | |
| 338 | BHAKARE SAKSHI SUBHASH | |
| 339 | DALAVI OMKAR BAPU | |
| 340 | GARADE PRAVIN MOHAN | |
| 341 | GHATAGE KARAN PANDHARINATH | |
| 342 | JADHAV PRUTHVIRAJ YUVRAJ | |
| 343 | KADAM VIRAJ GOVIND | |
| 344 | KHOT ADINATH PANDURANG | |
| 345 | KURADE SURAJ GOVIND | |
| 346 | LATAME SAHIL ASHOK | |
| 347 | MULLANI RAJMOHAMMAD ZAKIR | |
| 348 | PATIL OM AMAR | |
| 349 | PATIL RITESH AJIT | |
| 350 | PATIL VISHWAJEET SURESH | |
| 351 | SHINGADE SHREYASH SARDAR | |

Sign of Supervisor

A-207

# SANJEVAN ENGINEERNG & TECHNOLOGY INSTITUTE, PANHALA

## Department Of Basic Sciences And Humanities

### Attendance sheet

Exam- CA- I | A.Y.2024-25 | SEM-I

Course-

Subject- Engg. maths I | Block No. A-207

Date- 25/10/2024 | Subject code- Engg- physics

Time- 3:00 to 3:30

| Roll No. | Name of Students | Sign |
|---|---|---|
| 201 | PATIL ANUJ AVINASH | |
| 202 | PATIL MADHURA PRAKASH | |
| 203 | PATIL MAITHILI DADASAHEB | |
| 204 | PATIL PARTH MADHUKAR | |
| 205 | PATIL PARTH RAJARAM | |
| 206 | PATIL PRANALI TANAJI | |
| 207 | PATIL PRATHMESH PRAVIN | |
| 208 | PATIL PRUTHVIRAJ BABASO | |
| 209 | PATIL ROHIT UDAY | |
| 210 | PATIL ROHIT VITTHAL | |
| 211 | PATIL SAIRAJ TUKARAM | |
| 212 | PATIL SAKSHI HINDURAO | |
| 213 | PATIL SAKSHI SATISH | |
| 214 | PATIL SANDHYARANI HIRAJI | |
| 215 | PATIL SAYALI SARDAR | |
| 216 | PATIL SHRAVAN NARAYAN | |
| 217 | PATIL SHRAVANI ARUN | |
| 218 | PATIL SHREYA SUNIL | |
| 219 | PATIL SHRUTIKA YUVRAJ | |
| 220 | PATIL SIDDARTH SUNIL | |
| 221 | PATIL SNEHA TANAJI | |
| 222 | PATIL SNEHA VIJAYKUMAR | |
| 223 | PATIL UDAY SUNIL | |
| 224 | PATIL VAISHNAVI VILAS | |
| 225 | PATIL VINAY BHIMA | |
| 226 | PATIL VIVEK VIJAY | |
| 227 | PATIL VRUSHALI UTTAM | |
| 228 | PAWAR PURNAY RANJIT | |
| 229 | POWAR HARSHVARDHAN SANTOSH | |
| 230 | PRADDYUMNA RAMCHANDRA THORAT | |
| 231 | RABBE KARUNA ASHOK | |
| 232 | RAUT SUDARSHAN DATTATRYA | |
| 233 | SABALE SUYASH MAHADEV | |
| 234 | SALUNKHE HARSHAVARDHAN ASHOK | H.A.SALUNKHE |
| 235 | SANAGAR AJAY DAGADU | |

| Roll No. | Name of Students | Sign |
|---|---|---|
| 401 | ATIGRE SAMARTH KRISHNAT | |
| 402 | CHAVAN SWAYAM VINAYAK | |
| 403 | DONGALE SARVESH SANJAY | |
| 404 | GAIKWAD OM BAJIRAO | |
| 405 | JANGAM SARVESH PANDIT | |
| 406 | KADAM SAMRUDDHI NANASO | |
| 407 | KUMBHAR SAMRUDDHI GORAKSH | |
| 408 | MANE PARTH PRAMODKUMAR | |
| 409 | MANGALE VISHWAJEET SANJAY | |
| 410 | NIKAM PRATIKSHA PANDURANG | |
| 411 | PARIT AMRUTA ARUN | |
| 412 | PARTH DIPAK PATIL | |
| 413 | PATIL HARSHVARDHAN RAMCHANDRA | |
| 414 | PATIL MAYURESH SHRIPATI | |
| 415 | PATIL PIYUSH BALASO | |
| 416 | PATIL PRANALI KRISHNAT | |
| 417 | PATIL SANIKA MARUTI | |
| 418 | PATIL SAURABH YASHAVANT | |
| 419 | PATIL SHANKAR SARJERAO | |
| 420 | PATIL SHRUTIKA ANANDA | |
| 421 | PAWAR SHREERAJ SUDHIR | |
| 422 | ROHAN SUBHASH KADAM | |
| 423 | SHELAR OMKAR DATTATRAY | |
| 424 | SHID POOJA SURESH | |
| 425 | SHRIDHAR KRUSHNAT PADAVAL | |
| 426 | SUDHANSHU ANILKUMAR POTDAR | |
| 427 | UDALE VEDANT VIKAS | |
| 428 | YASHRAJ RAJENDRA SHINDE | |
| 429 | BHATALE SHUBHAM VITTHAL | |
| 430 | GADGIL ROHIT AJAY | |
| 431 | GAIKWAD SAGAR BALASO | |
| 432 | KHOT SIDDHESH MAHADEV | |
| 433 | KUMBHAR ATHARV SUBHASH | |
| 434 | LAD HARSH SANJAY | |
| 435 | LAVHATE SAHIL SACHIN | |

Sign of Supervisor

25/10/24

Dr. R. S. Mane

# SANJEVAN ENGINEERNG & TECHNOLOGY INSTITUTE, PANHALA

## Department Of Basic Sciences And Humanities

### Attendance sheet

Exam- CA- I
Course-
Subject- Engg. Maths I
Date-

A.Y.2024-25 SEM-I
Block No. A-209
Subject code- Engg. Physics
Time-

| Roll No. | Name of Students | Sign |
|---|---|---|
| 236 | SANGAR NANDINI PRADIP | |
| 237 | SANGOLKAR RAM KISAN | |
| 238 | SANIKA MAHADEV PATIL | |
| 239 | SHAIKH NILOFAR MEHABUB | |
| 240 | SHEDGE ANANDI KALYAN | |
| 241 | SHINDE GOURI DHONDIRAM | |
| 242 | SHINDE PRANAV SURESH | |
| 243 | SHRAVANI VISHWANATH BHUSAKE | |
| 244 | SONAWANE PRATHAMESH KALYAN | |
| 245 | SURVE GAURI KUMAR | |
| 246 | SURYAWANSHI ANKITA AMAR | |
| 247 | VARPE TUSHAR JOTIBA | |
| 248 | VATHARE MANALI SUNIL | |
| 249 | WANDRE ARAVIND ANANT | |
| 250 | YADAV NEHA JAYSING | |
| 251 | YADAV VAISHNAVI SHAMRAO | |
| 252 | YARGATTI BHAKTI EKANATH | |
| 253 | ZUGAR ROHIT NAVANATH | |
| 254 | KARNALE SHREYA APPASAHEB | |
| 255 | MAHADIK PAYAL DIPAK | |
| 256 | PATIL APURVA SANDIP | |
| 257 | SHINDE SANIKA SANTOSH | |
| 258 | SHINDE VISHWAJEET SAGAR | |
| 259 | THORAT PIYUSH SADANAND | |

| Roll No. | Name of Students | Sign |
|---|---|---|
| 436 | LOHAR DIGVIJAY SAMBHAJI | |
| 437 | MADAKE SIDDHESH ATMARAM | |
| 438 | MANE MANTHAN UDDHAV | |
| 439 | MASKE MADHURA SHAHAJI | |
| 440 | PATIL BIPIN PUNDLIK | |
| 441 | PATIL PANKAJ VISHWAS | |
| 442 | PATIL ROHAN BABASO | |
| 443 | PATIL SANGRAM SANJAY | |
| 444 | PATIL SHIVTEJ SARJERAO | |
| 445 | PATIL SHREYASH SHIVAJI | |
| 446 | PATIL TANMAY DILIP | |
| 447 | RAJVARDHAN SANJAY CHOUGALE | |
| 448 | SHAHU SURESH LAD | |

Sign of Supervisor

# SANJEVAN ENGINEERNG & TECHNOLOGY INSTITUTE, PANHALA

## Department Of Basic Sciences And Humanities

## Attendance sheet

Exam- CA- I
Course-
Subject- P5 4 BCE
Date-

A.Y.2024-25 SEM-I
Block No. A-206
Subject code-
Time-

| Roll No. | Name of Students | Sign |
|---|---|---|
| 101 | ADITYA DINKAR PATIL | |
| 102 | BAWADEKAR SARTHAK RAHUL | |
| 103 | BHASKAR SANJIVANI KRISHNAT | |
| 104 | BHITTAM VIVEK BHAGAVAN | |
| 105 | BHONDAVE AKANKSHA DHANAJI | A.D.A |
| 106 | BHOSALE GAYATRI HINDURAO | |
| 107 | BHOSALE RUTUJA RAMESH | |
| 108 | BHOSALE SANIKA SHASHIKANT | |
| 109 | CHOUGULE SANSKAR SAMBHAJI | |
| 110 | DAVANG VIDYA BALKRISHNA | |
| 111 | DEVAR SHARUK SHEKAR | |
| 112 | DHOTRE VAIBHAV BALU | |
| 113 | DONGALE SMRUTI SHANKAR | |
| 114 | DUKARE SEJAL PRADIP | |
| 115 | GAIKWAD AASHAY ASHOK | |
| 116 | GAIKWAD SAGAR SHASHIKANT | |
| 117 | GAIKWAD VINAYAK KRUSHNAT | |
| 118 | GAVADE SANVI SANJAY | |
| 119 | GAVALI ATHARV KIRAN | |
| 120 | GAWADE NAGARAJ SHITARAM | |
| 121 | GHODAKE PRATIKSHA SATISH | |
| 122 | GORE SANGRAM DADASAHEB | S.D.Gore |
| 123 | GURAV SUYOG GANESH | |
| 124 | HAVALDAR SIDDIK SHAUKAT | |
| 125 | HIRDEKAR INDRAJYOT BHAGWAN | |
| 126 | INGAVALE TANUJA AMAR | |
| 127 | JADHAV NIKUNJ NILESH | |
| 128 | JADHAV SWAPNIL MOTILAL | |
| 129 | JAMDAR KARAN ANANDA | K.A.J |
| 130 | JANKAR VEDANT VIJAY | |
| 131 | KADAM RASIKA KHANDERAO | |
| 132 | KADAM SANIYA RAJENDRA | |
| 133 | KADAM SHRUTIKA SAMBHAJI | |
| 134 | KAMBLE OMKAR ANANDA | |
| 135 | KAMBLE RAJVEER TANAJI | |

| Roll No. | Name of Students | Sign |
|---|---|---|
| 301 | BHOSALE RIYA RAHUL | |
| 302 | KADAM RUSHIKESH YUVRAJ | |
| 303 | KAMBLE RADHIKA AJIT | R.A.Kamble |
| 304 | LAD SHRAVANI MARUTI | |
| 305 | LAMBE SUDESH RAMESH | |
| 306 | LONDHE SAKSHI GAJANAN | |
| 307 | PATEL AFARIN NISARAHAMAD | |
| 308 | PATIL GAYATRI HANMANT | |
| 309 | PATIL PRATHAMESH GAMA | |
| 310 | PATIL SANMATI PANDURANG | |
| 311 | SUTAR SAYALI ANIL | |
| 312 | ATTAR AHAMADALI RAFIK | A.R.Attar |
| 313 | CHOUGALE AKASH BAJARANG | |
| 314 | DESHMUKH AKANKSHA LAXMAN | |
| 315 | DHOBLE RUSHIKESH DEVIDAS | |
| 316 | JANGAM SHIVLING POPAT | |
| 317 | KADAM VIDYA ARJUN | |
| 318 | KANITKAR ATHRAV YUVRAJ | |
| 319 | KHAMKAR SANSKAR TANAJI | |
| 320 | MANDLIK ASAVARI RAKESH | |
| 321 | MANE PREM AMAR | |
| 322 | MANE SIDDHARTH TANAJI | |
| 323 | MOHITE SAMARTH HANUMAN | |
| 324 | PATIL NAMRATA AKARAM | |
| 325 | PATIL SHASHANK VINAYAK | |
| 326 | PATIL SIDHIKESH ANANDA | |
| 327 | PAWAR PATIL VEDIKA RAMDAS | |
| 328 | POWAR SOURABH SANJAY | |
| 329 | PRATIKSHA DAGADU BUDAKE | P.D.Budake |
| 330 | REDEKAR ARPITA VASANT | |
| 331 | SANKALP SHIVAJI SATAV | |
| 332 | SATAV VITTHAL DIPAK | |
| 333 | WALVEKAR ADITYA SACHIN | |
| 334 | YADAV SIDDHI DEEPAK | |
| 335 | ZADE SANSKAR YASHWANT | |

Sign of Supervisor

# SANJEVAN ENGINEERNG & TECHNOLOGY INSTITUTE, PANHALA

## Department Of Basic Sciences And Humanities

### Attendance sheet

| | |
|---|---|
| Exam- CA- I | A.Y.2024-25 SEM-I |
| Course- B.Tech (F.Y.) | Block No. A-208 |
| Subject- ~~BEE~~ programing | Subject code- ~~programing~~ BCE. |
| Date- 25/10/24 | Time- 12:00 to 12:30 |

| Roll No. | Name of Students | Sign |
|---|---|---|
| 136 | KAMBLE RANJEET BHAGWAN | R.B.K |
| 137 | KANGANE RITESH BABAN | |
| 138 | KANTHE MANSI RAJESH | Mkanthe |
| 139 | KOLEKAR PARAS BALKRUSHNA ALIAS DEEPAK | |
| 140 | KOLI SARTHAK DEEPAK | S.D.Koli |
| 141 | KUMBHAR KEDAR RAVINDRA | |
| 142 | LAMBORE ARCHANA SAKHARAM | Lambore |
| 143 | MANE PRANALI PRAKASH | Mane |
| 144 | MANE VAIBHAV BHAIRU | |
| 145 | MENGANE SAKSHI SANJAY | |
| 146 | MESHRAM RAJRATAN VISHAL | |
| 147 | METKARI RAVI RAMESH | |
| 148 | MHAMULKAR MILIND RAVINDRA | |
| 149 | MOHITE SURAJ MAHADEO | |
| 150 | MOLE SALONI UTTAM | |
| 151 | MOLE SAMIKSHA SANJAY | |
| 152 | MORE VAIBHAV VILAS | |
| 153 | NAIK ANUJA ANIL | |
| 154 | NAIK HARSHVARDHAN RAGHUNATH | |
| 155 | NAIKAVADE TANUJA MARUTI | |
| 156 | NALAWADE PRIYANKA DHANAJI | |
| 157 | NANGARE SAKSHI RANJIT | GRNangare |
| 158 | PANDIT RITIKA RAJENDRA | RRPandit |
| 159 | PANDIT VIVEK SATISH | |
| 160 | PATIL ADITI ARVIND | |

| Roll No. | Name of Students | Sign |
|---|---|---|
| 336 | PATIL VEDANT KRISHNAT | |
| 337 | SONAVADEKAR RANI ASHOK | |
| 338 | BHAKARE SAKSHI SUBHASH | |
| 339 | DALAVI OMKAR BAPU | |
| 340 | GARADE PRAVIN MOHAN | |
| 341 | GHATAGE KARAN PANDHARINATH | |
| 342 | JADHAV PRUTHVIRAJ YUVRAJ | |
| 343 | KADAM VIRAJ GOVIND | V.G.K |
| 344 | KHOT ADINATH PANDURANG | |
| 345 | KURADE SURAJ GOVIND | |
| 346 | LATAME SAHIL ASHOK | |
| 347 | MULLANI RAJMOHAMMAD ZAKIR | R.Z.Mullani |
| 348 | PATIL OM AMAR | |
| 349 | PATIL RITESH AJIT | |
| 350 | PATIL VISHWAJEET SURESH | |
| 351 | SHINGADE SHREYASH SARDAR | |

8 AB.

Sign of Supervisor

HOLY-WOOD ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur
Pin-416 201 (Maharashtra) Phone : 9146999500

DTE Code : EN6315

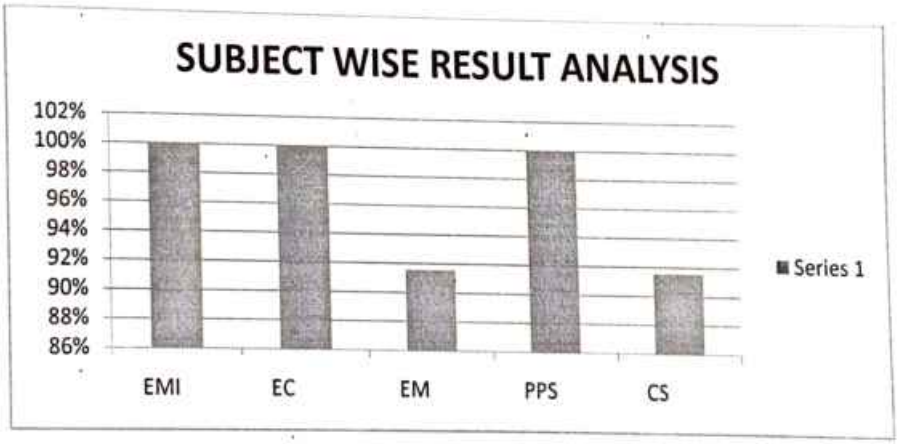
NAAC Accredited

AICTE ID : 1-8019451
AISHE Code : C-11165

Approved By AICTE, New Delhi. Recognized by Govt. of Maharashtra, DTE, DOA
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.

Div-A

| SUBJECT CODE | SUBJECT NAME | FACULTY NAME |
|---|---|---|
| BTBS 101 | Engg.Mathematics | Ms.S.D.Chavan |
| BTBS 102 | Engg.Chemistry | Dr.R.P.Mane |
| BTBS 103 | Engg.Mechanics | Mrs.R.S.Bore |
| BTBS 104 | PPS | Mr.S.A.Patil |
| BTBS 105 | Communication Skill | Mr.R.V.Khopade |



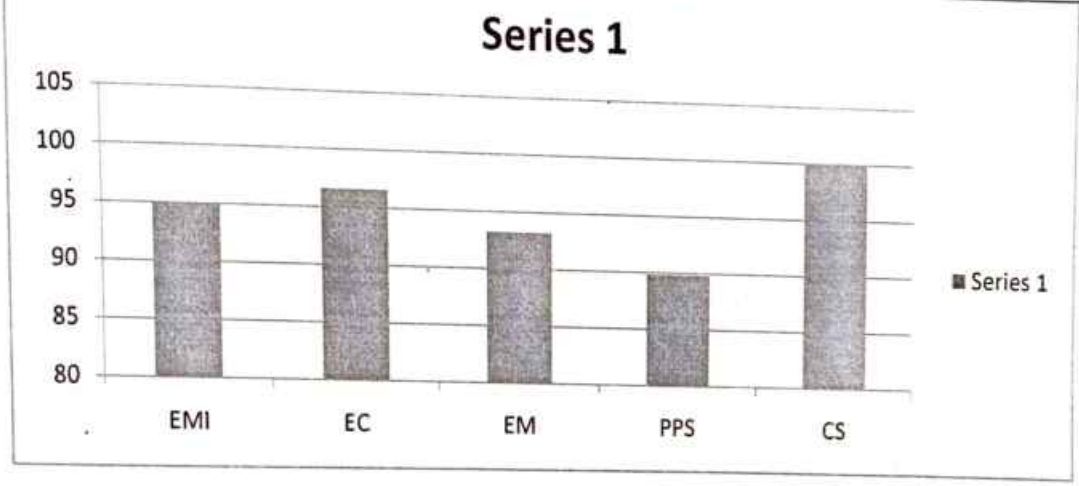

| SUBJECT | EMI | EC | EM | PPS | CMMUNICATION SKILL |
|---|---|---|---|---|---|
| SUBJECT TEACHER | SDC | RPM | RSB | SAP | RVK |
| TOTAL PRESENT | 60 | 60 | 60 | 60 | 60 |
| ABSENT | 0 | 0 | 0 | 0 | 0 |
| PASS | 60 | 60 | 55 | 60 | 55 |
| FAIL | 0 | 0 | 5 | 0 | 5 |
| % OF RESULT | 100% | 100% | 91.57% | 100% | 91.57% |

SANJEEVAN GROUP OF INSTITUTIONS ★ PANHALA ★ Dept. of Basic Sciences & Humanities (Degree)

Head of Department
Basic Sciences & Humanities(Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

Div: B

| SUBJECT CODE | SUBJECT NAME | FACULTY NAME |
|---|---|---|
| BTBS 101 | Engg.Mathematics | Ms.Na.G.Khan |
| BTBS 102 | Engg.Chemistry | Ms.S.A.Sayyad |
| BTBS 103 | Engg.Mechanics | Mrs.R.S.Bore |
| BTBS 104 | PPS | Mr.S.A.Patil |
| BTBS 105 | Communication Skill | Mr.R.V.Khopade |




| SUBJECT | EMI | EC | EM | PPS | CMMUNICATION SKILL |
|---|---|---|---|---|---|
| SUBJECT TEACHER | Na Gk | SAS | RSB | SAP | RVK |
| TOTAL PRESENT | 59 | 59 | 59 | 59 | 59 |
| ABSENT | 0 | 0 | 0 | 0 | 0 |
| PASS | 56 | 53 | 55 | 53 | 59 |
| FAIL | 3 | 2 | 4 | 6 | 0 |
| % OF RESULT | 94.92 | 96.61 | 93.22 | 89.83 | 100 |

SANJEEVAN GROUP OF INSTITUTIONS ★ PANHALA ★
Dept of Basic Sciences & Humanities (Degree)

Head of Department
Basic Sciences & Humanities(Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

DTE Code : EN6315

NAAC Accredited

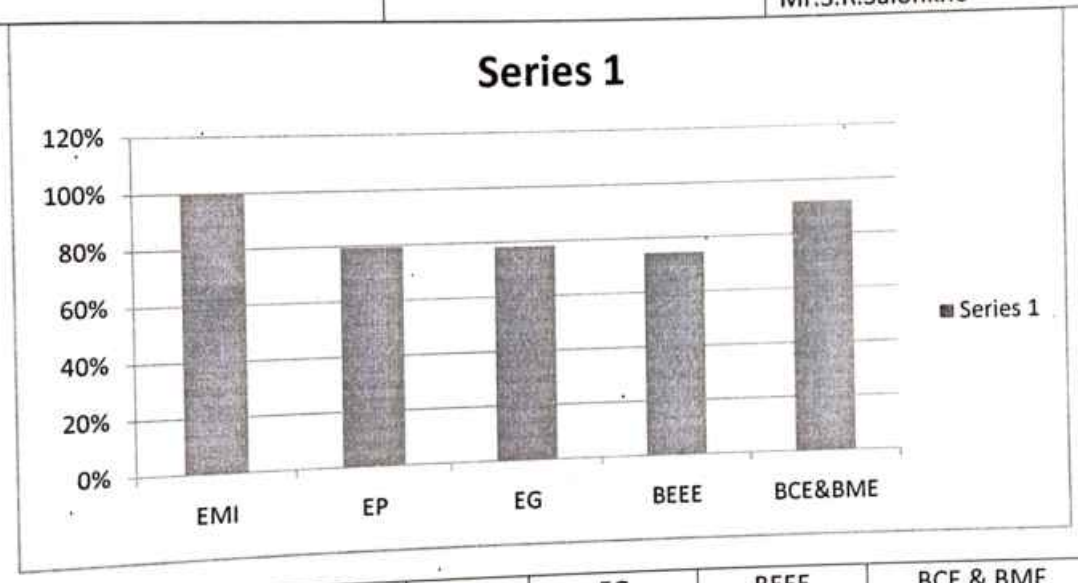
AICTE ID : 1-8019451
AISHE Code : C-11165

HOLY-WOOD ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur.
Pin- 416 201 (Maharashtra) Phone : 9146999500

- Approved By AICTE, New Delhi
- Recognized by Govt. of Maharashtra, DTE, DOA
- Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
- Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.

Div: C

| SUBJECT CODE | SUBJECT NAME | FACULTY NAME |
|---|---|---|
| BTBS 101 | Engg.Mathematics | Ms.Ni.G.Khan |
| BTBS 102 | Engg.Physics | Mr.V.V.Magdum |
| BTBS 103 | Engg.Graphics | Mr.V.V.Vanmore |
| BTBS 104 | BEEE | Mr.S.Y.Surywavshi |
| BTBS 105 | BCE & BME | Mr.S.P.Na.Nangare & Mr.S.R.Salonkhe |




| SUBJECT | EMI | EP | EG | BEEE | BCE & BME |
|---|---|---|---|---|---|
| SUBJECT TEACHER | NiGk | VVM | VVV | SYS | SPN/SRS |
| TOTAL PRESENT | 51 | 51 | 51 | 51 | 51 |
| ABSENT | 0 | 0 | 0 | 0 | 0 |
| PASS | 51 | 41 | 41 | 38 | 47 |
| FAIL | 0 | 11 | 11 | 13 | 4 |
| % OF RESULT | 100% | 79.4% | 78.3% | 74.5% | 92% |

SANJEEVAN GROUP OF INSTITUTIONS ★ PANHALA ★ Dept. of Basic Sciences & Humanities (Degree)

Head of Department
Basic Sciences & Humanities(Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

DTE Code : EN6315

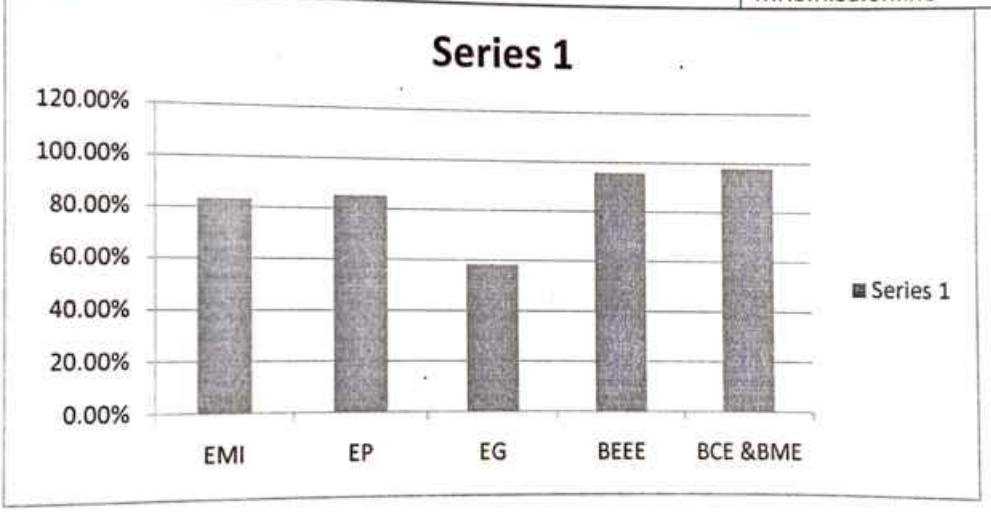
NAAC Accredited

AICTE ID : 1-8019451
AISHE Code : C-11165

HOLY-WOOD ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur
Pin- 416 207 (Maharashtra) Phone : 9146999500
Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra, DTE, DOA
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.

Div: D

| SUBJECT CODE | SUBJECT NAME | FACULTY NAME |
|---|---|---|
| BTBS 101 | Engg.Mathematics | Ms.Ni.G.Khan |
| BTBS 102 | Engg.Physics | Mr.V.V.Magdum |
| BTBS 103 | Engg.Graphics | Mr.V.V.Vanmore |
| BTBS 104 | BEEE | Mr.S.Y.Surywavshi |
| BTBS 105 | BCE & BME | Mr.S.P.Na.Nangare & Mr.S.R.Salonkhe |




| SUBJECT | EMI | EP | EG | BEEE | BCE & BME |
|---|---|---|---|---|---|
| SUBJECT TEACHER | NiGk | VVM | VVV | SYS | SPN/SRS |
| TOTAL PRESENT | 48 | 48 | 48 | 48 | 48 |
| ABSENT | 0 | 0 | 0. | 0 | 0 |
| PASS | 40 | 41 | 28 | 46 | 47 |
| FAIL | 8 | 7 | 20 | 2 | 1 |
| % OF RESULT | 83.3% | 85.4% | 58.3% | 95.8% | 97.9% |

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Basic Sciences & Humanities (Degree)
PANHALA

Head of Dept.
Basic Sciences & Humanities(Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

HOLY-WOOD ACADEMY'S

# SANJEEVAN

GROUP OF INSTITUTIONS, PANHALA

***Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.***

## BASIC SCIENCE AND HUMANITIES DEPARTMENT

## Academic Calendar for A.Y. 2024-2025 ( Odd Semester-SEMSTER I )

| Month | Week/ Days | | | | | | | working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| SEPTEMBER | | | | | | | 1 | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 2 TO 21 SEP. Induction Programme,7- Shri Ganesh Chaturthi |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | 15- Engineer's Day |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | | 16- Eid-e-Milad |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 6 | 23 Sep- Commencement of FY Classes ,23 Sep To 27 Sep -FDP-Enginnering Chemistry, 28 Sep -Industrial Visit |
| | 30 | | | | | | | 1 | |
| OCTOBER | | 1 | 2 | 3 | 4 | 5 | 6 | 3 | 2- Mahatma Gandhi Jayanti. |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 5 | 11 Oct- Guest Lecture ,12-Dussehra |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 5 | 14 oct To 18Oct -FDP-Engineering Physics |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 6 | 22 To 23 Oct -CA 01 ,26 Oct -Painting workshop |
| | 28 | 29 | 30 | 31 | | | | 4 | |
| NOVEMBER | | | | | 1 | 2 | 3 | 0 | 1- Laxmi Pujan, 2-Bali Pratipada |
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 6 | 8 Nov-Guest Lecture ,9 Nov-Industrial Visit |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 4 | 15- Guru Nanak Jayanti |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 6 | 23 Nov -Coding Workshoop , |
| | 25 | 26 | 27 | 28 | 29 | 30 | | 5 | 25-29 Nov-MSE |
| DECEMBER | | | | | | | 1 | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | 2 To 6 Dec -SDP of Engineering Mathematics / Communication Skills , |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 6 | 14 Dec -Music workshop |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 5 | , 20 Dec - ~~End of Classes~~ |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 5 | 25- Christmas,26 Dec To 27 Dec - CA 02 |
| | 30 | 31 | | | | | | 2 | |
| JANUARY | | | 1 | 2 | 3 | 4 | 5 | 3 | |
| | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 5 | 11 Jan-End of classes, |
| | 13 | 14 | 15 | 16 | 17 | 18 | 19 | | 13-15 Jan-practical Exam,17-28 Jan-ESE exam |
| | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | |
| | 27 | 28 | 29 | 30 | 31 | | | | |
| | | | | | | | | | 3 March-Result Declaration,17Feb-Commencement of next Semester |
| Govt. Holiday | | CA/MSE/Pract. Exam/ESE | | | | | | 82 | |
| Activities | | Institute Holiday | | | | | | | |

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.
.....2. In align with this, each Department shall prepare their separate calendar to reflect departmental ..... activities, Industrial Visits and Student Intrenships

PRINCIPAL
Sanjeevan Group Of Institutions
Somwarpeth, Panhala, Tal. Panhala,
Dist. Kolhapur - 416 201 (M.S.)

Prepared by

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Basic Sciences & Humanities (Degree)
PANHALA

HOD

H.O.D.
Department of
Basic Sciences and Humanities

DTE Code : EN6315

NAAC Accredited

AICTE ID : 1-8019451
AISHE Code : C-11165

HOLY-WOOD ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur
Pin- 416 201 (Maharashtra) Phone : 9146999500
Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra, DTE, DOA
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.

Date: 11/04/2025

# Department of Basic Sciences and Humanities

## NOTICE

All students of 1st year engineering (F.E) are informed that the **continuous assessment-I (SEM-II, CA-I)** is scheduled on **15th & 16th April, 2025**. The time table for the same will be displayed soon.

**NOTE: Exam should not be re-conducted at any cost.**

**Exam Coordinator.**

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

**H.O.D.**

Head of Department
Basic Sciences & Humanities(Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Basic Sciences & Humanities (Degree)
PANHALA

DATE: 12/04/2025

# Department of Basic Sciences and Humanities

## Time Table(CA - I)

**F.Y.B.Tech Sem-II** **A.Y. 2024-25**

| Sr. No. | Date | Time | Subject | |
|---|---|---|---|---|
| | | | Div C & D | Div A & B |
| 1 | 15/04/2025 | 11:30 to 12:00 | Engg. Chemistry | Engg. Maths II |
| | | 12:30 to 01:00 | Engg. Mechanics | Basic Electrical and Electronics |
| 2 | 16/04/25 | 11:30 to 12:00 | PPS | Basic Civil and Mechanical |
| | | 12:30 to 01:00 | Communication skills | Engg. Graphics |
| | | 02:00 to 02:30 | Engg. Maths II | Engg. Physics |

SANJEEVAN GROUP OF INSTITUTIONS ★ PANHALA ★
Dept. of Basic Sciences & Humanities (Degree)

**Exam Co-ordinator**

**H.O.D**
Head of Department
Basic Sciences & Humanities(Degree)
Sanjeevan Group of Institutions,
Peth - Panhala, Dist-Kolhapur, 416201

PRINCIPAL
Sanjeevan Group Of Institutions
Somwarpeth, Panhala, Tal. Panhala,
Dist. Kolhapur - 416 201 (M.S.)

DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.
SANJEEVAN GROUP OF INSTITUTIONS,Panhala.
**Department of Basic Sciences & Humanities**
**CONTINUOUS ASSESSMENT 01(CA01) Examination 2025**

| | |
|---|---|
| **SEMESTER:** II | |
| **NAME Of STUDENT:** | **ACADEMIC YEAR:** 2024-25 |
| | **PRN:** |
| **CLASS:** First Year B. Tech.( DIV B ) | **Time:**11.30 AM TO 12.00 noon |
| **DAY & DATE:** Tuesday 15 / 04 / 2025 | **Marks:** 10 |
| **SUBJECT NAME WITH CODE:** ENGINEERING MATHEMATICS – II (24AF1000BS201) | |

**Instructions to the Students:**

1. Attempt any TWO.
2. Assume suitable data if necessary.
3. Use of non-programmable calculator is allowed.

| Question No. | Question | CO | PO | BL | Marks |
|---|---|---|---|---|---|
| 1 | Evaluate $\left[\frac{1+\sin\alpha+i\cos\alpha}{1+\sin\alpha-i\cos\alpha}\right]^n$ | 01 | 01 | 5.Evaluating | 05 |
| 2 | $\arg(z+1)=\frac{\pi}{6}$ and $\arg(z+1)=\frac{2\pi}{3}$ then find z. | 01 | 01 | 2.Understanding | 05 |
| 3 | Expand $\sin 5\theta$ and $\cos 5\theta$. | 01 | 01 | 2.Understanding | 05 |

* * *

Dept. of
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Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

Name - Neha Jaysing Yadav Roll no-250

$$\left[\frac{1+\sin\alpha+i\cos\alpha}{1+\sin\alpha-i\cos\alpha}\right]^n$$

10/10

$$1 = \sin^2\alpha + \cos^2\alpha$$

$$1 = \sin^2\alpha - -\cos^2\alpha$$

$$1 = \sin^2\alpha - i^2\cos^2\alpha \quad --- a^2-b^2 = (a+b)(a-b)$$

$$1 = (\sin\alpha + i\cos\alpha)(\sin\alpha - i\cos\alpha)$$

$$1 = (\sin\alpha + i\cos\alpha)(\sin\alpha - i\cos\alpha) \quad \text{——— } 1$$

$$1 + \sin\alpha + i\cos\alpha = (\sin\alpha + i\cos\alpha)(\sin\alpha - i\cos\alpha) + (\sin\alpha + i\cos\alpha)$$

$$1 + \sin\alpha + i\cos\alpha = \sin\alpha + i\cos\alpha(\sin\alpha - i\cos\alpha + 1)$$

$$\frac{1+\sin\alpha+i\cos\alpha}{1+\sin\alpha-i\cos\alpha} = \sin\alpha + i\cos\alpha$$



$$\sin\alpha + i\cos\alpha = \frac{1+\sin\alpha+i\cos\alpha}{1+\sin\alpha-i\cos\alpha}$$

$$\left[\sin\alpha + i\cos\alpha\right]^n$$

= By usi

$$\sin\left(\frac{\pi}{2}-\alpha\right) + i\left(\cos\left(\frac{\pi}{2}-\alpha\right)\right)$$

$$\sin\left(\frac{\pi}{2}-\alpha\right) + i\cos\left(\frac{\pi}{2}-\alpha\right)$$

By using De Morvier's Theoren

$$\left[\cos\left(\frac{\pi}{2}-\alpha\right) + i\sin\left(\frac{\pi}{2}-\alpha\right)\right]^n$$

By using De Morvier's Theorem

$$\left[\cos n\left(\frac{\pi}{2}-\alpha\right) + i\sin n\left(\frac{\pi}{2}-\alpha\right)\right]$$

truelines
DATE : / /

Que 3 $\sin 5\theta$ and $\cos 5\theta$

De-Morvier's Theorem

$$[\cos\theta + i\sin\theta]^n = [\cos n\theta + i\sin n\theta]$$

$$[\cos 5\theta + i\sin 5\theta] = [\cos\theta + i\sin\theta]^5$$

$(\cos\theta + i\sin\theta)^5$

By using $(a+b)^5$

$$(a+b)^5 = a^5 + 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4 + b^5$$

$$= (\cos\theta)^5 + 5(\cos\theta)^4(i\sin\theta) + 10(\cos\theta)^3(i\sin\theta)^2$$

$$+ 10(\cos\theta)^2(i\sin\theta)^3 + 5(\cos\theta)(i\sin\theta)^4 + (i\sin\theta)^5$$

$$= (\cos\theta)^5 + 5(\cos\theta)^4(i\sin\theta) - 10(\cos\theta)^3(\sin\theta)$$

$$- 10(\cos\theta)^2(i\sin\theta) + 5\cos\theta(i\sin\theta)^4 + (i\sin\theta)^5$$

Comparing the value with real and Imaginary number

$$\cos 5\theta = \cos^5\theta \cancel{+5\cos} - 10(\cos^3)(\sin\theta)^2 + 5\cos\theta(\sin\theta)^4$$

$$\sin 5\theta = (i\sin^5\theta) \quad )^4(i\sin\theta) - 10(\cos\theta)^2(i\sin\theta)$$

DATE : __/__/____

$\sin^2\theta + \cos^2\theta = 1$

$\cos^2\theta = 1 - \sin^2\theta$

$\sin^4\theta + \cos^4\theta = 1$

$\cos^4\theta = (1 - \sin^2\theta)^2$

$$\boxed{\cos^4\theta = 1 - 2\sin^2\theta + \sin^4\theta}$$

$\cos 5\theta = \cos^5\theta - 10(\cos^3)(\sin\theta)^2 + 5\cos\theta(\sin\theta)^4$

$\sin 5\theta = i\sin^5\theta + 5(\cos\theta)^4(i\sin\theta) - 10(\cos\theta)^2(i\sin\theta)$

$= i\sin^5\theta + 5i\sin\theta(1 - 2\sin^2\theta + \sin^4\theta) - 10i\sin\theta(1 - \sin^2\theta)$

$= i\sin^5\theta + 5i\sin\theta - 10i\sin^3\theta + 5i\sin^5\theta - 10i\sin\theta - 10i\sin^3\theta$

$= i(6\sin^5\theta + 5\sin\theta - 10\sin^3\theta + 5\sin^5\theta) + 10\sin^5\theta - 10\sin^3\theta$

$\cancel{= 16\sin^5\theta - 20\sin^3\theta}$



$$\boxed{\sin 5\theta = 16\sin^5\theta - 20\sin^3\theta + 5\sin\theta}$$

Similarly,

$$\boxed{\cos 5\theta = 16\cos^5\theta - 20\cos^3\theta + 5\cos\theta}$$

truelines

DATE: __/__/__

$$\sin^2\theta + \cos^2\theta = 1$$

$$\sin^2\theta = 1 - \cos^2\theta$$

$$\sin^4\theta + \cos^4\theta = 1$$

$$\sin^4\theta = (1 - \cos^2\theta)^2$$

$$\sin^4\theta = 1 - 2\cos^2\theta + \cos^4\theta$$

$$\cos 5\theta = \cancel{\cos^5\theta - 10} \cos^5\theta + 5(\cos\theta)^3(\sin^2\theta)^2 + 5\cos\theta(\sin\theta)^4$$

$$\cos 5\theta = \cos^5\theta + 5(\cos\theta)^3(1 - \cos^2\theta) + 5\cos\theta(1 - 2\cos^2\theta + \cos^4\theta)$$

$$\boxed{\cos 5\theta = 16\cos^5\theta - 20\cos^3\theta + 5\cos\theta}$$

SANJEEVAN GROUP OF INSTITUTIONS Dept. of Basic Sciences & Humanities (Degree) PANHALA

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# DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE.

Sanjeevan Group of Institutions, Panhala.

**Basic Sciences & Humanities Department**

**Mid Semester Examination Summer 2025**

| | |
|---|---|
| **SEMESTER:** II | **ACADEMIC YEAR.** 2024-25 |
| **NAME Of STUDENT:** | **PRN.:** |
| **CLASS:** F.Y. B. Tech. ( DIV B ) | **Time :** 9.30 am to 10.30 am |
| **DAY & DATE:** Friday 15/05/2025 | **Marks:** 20 |

**SUBJECT NAME WITH CODE:** Engineering Mathematics II (24AF1000BS201)

**Instructions to the Students:**

1. All questions are compulsory
2. Assume suitable data if necessary
3. Use of non-programmable calculator is allowed

| Question No. | Sub Question | Question | CO | PO | BL | Marks |
|---|---|---|---|---|---|---|
| 1. | | **Attempt the Following** | | 4×1 =4 | | |
| | a. | Cube root of unity form -----<br>a) Equilateral triangle b) right angle triangle<br>c) scalene triangle d) None | 1 | 1 | 1 | 1 |
| | b. | $\log(-1) =$<br>a) $2n\pi i$ b) $2n\pi$ c) $-2n\pi i$ d) None | 1 | 1 | 2 | 1 |
| | c. | Solution of Linear differential equation is ----- | 2 | 1 | 1 | 1 |
| | d. | I.F.(Integrating factor) of the differential equation $\frac{dy}{dx} - \frac{y}{x} = 0$ is ----- | 2 | 1 | 2 | 1 |
| 2 | a. | Prove that $\tan\left[i \log\left(\frac{a-ib}{a+ib}\right)\right] = \frac{2ab}{a^2-b^2}$ | 1 | 1 | 2 | 3 |
| | b. | Solve $\frac{dy}{dx} + x\sin 2y = x^3\cos^2 y$ | 2 | 1 | 2 | 3 |
| | | OR | | | | |
| | b. | $\cos^2 x \frac{dy}{dx} + y = \tan x$ | 1 | 1 | 2 | 3 |
| 3 | a. | $\arg(z+1) = \frac{\pi}{6}$ and $\arg(z-1) = \frac{2\pi}{3}$ then find z | 1 | 1 | 2 | 5 |
| | | OR | | | | |
| | a. | Solve $x^6 - i = 0$ | 2 | 1 | 2 | 5 |
| | b. | $(1+y^2) + (x - e^{\tan^{-1} y})\frac{dy}{dx} = 0$ | 2 | 1 | 2 | 5 |

************************ END ************************

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MSE (Sem-2 24-25) 15/05/2025

Model Answer sheet

① ⓐ Cube root of unity form equilateral triangle.

1

ⓑ $\log(-1) =$.

1

ⓒ Solution of Linear differential equation is –

$I.F. = e^{\int P dx}$

$y \cdot IF = \int Q \cdot IF dx + c$

ⓓ $P = \frac{-1}{x}$ $IF = e^{-\int 1/x dx} = e^{-\log x} = 1/x$

1

② ⓐ We know,

$\log(a+ib) = \log\sqrt{a^2+b^2} + i\tan^{-1}(b/a)$

1 $\log(a-ib) = \log\sqrt{a^2+b^2} - i\tan^{-1}(b/a)$

$\log\frac{a-ib}{a+ib} = -2i\tan^{-1}(b/a)$

$i\log\frac{a-ib}{a+ib} = 2\tan^{-1}(b/a)$

1 $\tan\left(i\log\frac{a-ib}{a+ib}\right) = \tan(2\alpha)$ $\alpha = \tan^{-1}(b/a)$

$\tan\alpha = b/a$

$= \frac{2t}{1-t^2}$

$= \frac{2b/a}{1-b^2/a^2} = \frac{2b/a}{a^2-b^2/a^2} = \frac{2b}{(a^2-b^2)/a}$

$= \frac{2ab}{(a^2-b^2)}$

1

ⓑ. $\frac{1}{\cos^2 y}\frac{dy}{dx} + \frac{x\sin 2y}{\cos^2 y} = x^3$.

$\sec^2 y \frac{dy}{dx} + x\frac{\sin 2y}{\cos^2 y} = x^3$.

Take $f(y) = \frac{\sin 2y}{\cos^2 y}$

$$= \frac{2\,s.c}{c^2} = \frac{2s}{c} = 2\tan y$$

$f'(y) = 2\sec^2 y.$

$$\therefore \underbrace{\frac{1}{2}(2\sec^2 y)}_{f'(y)}\frac{dy}{dx} + \underbrace{x}_{}\underbrace{(2\cdot\tan y)}_{f(y)} = x^3.$$

$$\underbrace{2\sec^2 y}_{f'(y)}\frac{dy}{dx} + \underbrace{2x}_{P}\underbrace{(2\tan y)}_{f(y)} = \underbrace{2x^3}_{Q} \quad \text{—(1)}$$

put $f(y) = 2\tan y = v$

$$2\sec^2 y\frac{dy}{dx} = \frac{dv}{dx}$$

(2) $\frac{dv}{dx} + \underbrace{2x}_{P}v = \underbrace{2x^3}_{Q}$ — LDE $\frac{dy}{dx}$ form.

$$I.F. = e^{\int P dx} = e^{\int 2x\,dx} = e^{2\frac{x^2}{2}} = e^{x^2}$$

$$V.I.F. = \int Q\,IF\,dx + C$$

$$2\tan y \cdot e^{x^2} = \int 2x^3 e^{x^2}\,dx + C$$

$$= 2\int x^3 e^{x^2}\,dx + C$$

put $x^2 = t$

$2x\,dx = dt$

$$= 2\int x^2 \cdot x \cdot dx\, e^{x^2} + C$$

$$= 2\int t\,e^t \frac{dt}{2} + C$$

$$= \int t e^t\,dt + C$$

$$= t e^t - (1)e^t + C$$

$$2\tan y\, e^{x^2} = e^t(t-1) + C$$

$$= e^{x^2}(x^2-1) + C$$

) $\cos^2 x \dfrac{dy}{dx} + y = \tan x$

$$\frac{dy}{dx} + \underbrace{\frac{1}{\cos^2 x}}_{P} y = \underbrace{\frac{\tan x}{\cos^2 x}}_{Q} \quad \text{— LDE form } \frac{dy}{dx}$$

$$I.F. = e^{\int P\, dx} = e^{\int \sec^2 x\, dx} = e^{\tan x}$$

1/2 $y \cdot I.F. = \int Q\, I.F.\, dx + c$

$$y \cdot e^{\tan x} = \int \frac{\tan x}{\cos^2 x} e^{\tan x}\, dx + C$$

$$= \int \tan x \cdot \sec^2 x \cdot e^{\tan x}\, dx + C$$

$\tan x = t$

1/2 $\sec^2 x\, dx = dt$

$$= \int t e^t\, dt + C$$

$$= t e^t - e^t + C$$

$$= e^t (t-1) + C$$

1/2 $y \cdot e^{\tan x} = e^{\tan x} (\tan x - 1) + C$



③ ⓐ $\arg(z+1) = \pi/6$.

$\arg(x+1+iy) = \pi/6$

$\tan^{-1}\left[\dfrac{y}{x+1}\right] = \pi/6$

$\dfrac{y}{x+1} = \tan \pi/6 = \dfrac{1}{\sqrt{3}}$

$\sqrt{3} y = x+1$

1/2 $x - \sqrt{3} y = -1$ — ① $\sqrt{3} x - 3y = -\sqrt{3}$ — ②

$\arg \cdot (z-1) = \dfrac{2\pi}{3}$

$\tan^{-1}\left[\dfrac{y}{x-1}\right] = \dfrac{2\pi}{3}$

$$\frac{y}{x-1} = \tan\left(\frac{2\pi}{3}\right) = -\sqrt{3}.$$

$$y = -\sqrt{3}(x-1)$$

$$\sqrt{3}x + y = \sqrt{3} \quad \text{—} \; (3)$$

eqn (2) − eqn (3)

$$-4y = -2\sqrt{3}$$

$$y = \sqrt{3}/2$$

$$\& \; x - \sqrt{3}\cdot\frac{\sqrt{3}}{2} = -1$$

$$x - \frac{3}{2} = -1$$

$$x = 1/2$$

$$\therefore z = x + iy = 1/2 + \frac{\sqrt{3}}{2}y$$

(a). $x^6 - i = 0$

$$x^6 = i \quad \therefore x = (i)^{1/6}$$

$$= \left[\cos\frac{\pi}{2} + i\sin\frac{\pi}{2}\right]^{1/6}$$

$$= \left[\cos\left(2k\pi + \frac{\pi}{2}\right) + i\sin\left(2k\pi + \frac{\pi}{2}\right)\right]^{1/6}$$

$$= \left[\cos\left(\frac{4k\pi + \pi}{2}\right)\frac{1}{6} + i\sin\left(\frac{4k\pi + \pi}{2}\right)\frac{1}{6}\right]$$

$$= \cos(4k+1)\frac{\pi}{12} + i\sin(4k+1)\frac{\pi}{12}$$

put $k = 0, 1, 2, 3, 4, 5$.

$$x_1 = e^{i\pi/12}$$

$$x_2 = e^{i5\pi/12}$$

$$x_3 = e^{i9\pi/12}$$

$$x_4 = e^{i13\pi/12}$$

$$x_5 = e^{i17\pi/12}$$

$$x_6 = e^{i21\pi/12}.$$

These are 6 roots.

(b) $(1+y^2)+(x-e^{\tan^{-1}y})\frac{dy}{dx}=0$

$$(x-e^{\tan^{-1}y})\frac{dy}{dx}=-(1+y^2)$$

$$x-e^{\tan^{-1}y}=-(1+y^2)\frac{dx}{dy}$$

$$\frac{x}{1+y^2}-\frac{e^{\tan^{-1}y}}{1+y^2}=-\frac{dx}{dy}$$

$$\frac{dx}{dy}+\underbrace{\frac{1}{1+y^2}}_{P}x=\underbrace{\frac{e^{\tan^{-1}y}}{1+y^2}}_{Q}$$

$$I.F.=e^{\int\frac{1}{1+y^2}dx}=e^{\tan^{-1}y}$$

$$x.IF.=\int Q.I.F.\,dy+C$$

$$=\int\frac{e^{\tan^{-1}y}}{1+y^2}\cdot e^{\tan^{-1}y}\,dy+C$$

$$=\int\frac{e^{2\tan^{-1}y}}{1+y^2}\,dy+C$$

$$x.e^{\tan^{-1}y}=e^{2\tan^{-1}y}+C$$

Dept. of Basic Sciences & Humanities (Degree) PANHALA SANJEEVAN GROUP OF INSTITUTIONS

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F.Y. B.Tech.

Subject Name: Engg. Mathematics - II

Block No. : A - 208

Time: 9:30 to 10:30

Name of the Jr. Supervisor: Dr. R. P. Mane

Date: 15/05/25

| Roll No. | Branch | Candidate Name | Sign |
|---|---|---|---|
| 201 | CSE | PATIL ANUJ AVINASH | |
| 202 | CSE | PATIL MADHURA PRAKASH | |
| 203 | CSE | PATIL MAITHILI DADASAHEB | |
| 204 | CSE | PATIL PARTH MADHUKAR | |
| 205 | CSE | PATIL PARTH RAJARAM | |
| 206 | CSE | PATIL PRANALI TANAJI | |
| 207 | CSE | PATIL PRATHMESH PRAVIN | |
| 208 | CSE | PATIL PRUTHVIRAJ BABASO | |
| 209 | CSE | PATIL ROHIT UDAY | |
| 210 | CSE | PATIL ROHIT VITTHAL | |
| 211 | CSE | PATIL SAIRAJ TUKARAM | |
| 212 | CSE | PATIL SAKSHI HINDURAO | |
| 213 | CSE | PATIL SAKSHI SATISH | |
| 214 | CSE | PATIL SANDHYARANI HIRAJI | |
| 215 | CSE | PATIL SAYALI SARDAR | |
| 216 | CSE | PATIL SHRAVAN NARAYAN | |
| 217 | CSE | PATIL SHRAVANI ARUN | |
| 218 | CSE | PATIL SHREYA SUNIL | |
| 219 | CSE | PATIL SHRUTIKA YUVRAJ | |
| 220 | CSE | PATIL SIDDARTH SUNIL | |
| 221 | CSE | PATIL SNEHA TANAJI | |
| 222 | CSE | PATIL SNEHA VIJAYKUMAR | |
| 223 | CSE | PATIL UDAY SUNIL | |
| 224 | CSE | PATIL VAISHNAVI VILAS | |
| 225 | CSE | PATIL VINAY BHIMA | |
| 226 | CSE | PATIL VIVEK VIJAY | |
| 227 | CSE | PATIL VRUSHALI UTTAM | |
| 228 | CSE | PAWAR PURNAY RANJIT | |
| 229 | CSE | POWAR HARSHVARDHAN SANTOSH | |
| 230 | CSE | PRADDYUMNA RAMCHANDRA THORAT | |
| 231 | CSE | RABBE KARUNA ASHOK | |
| 232 | CSE | RAUT SUDARSHAN DATTATRYA | |
| 233 | CSE | SABALE SUYASH MAHADEV | |
| 234 | CSE | SALUNKHE HARSHAVARDHAN ASHOK | |
| 235 | CSE | SANAGAR AJAY DAGADU | |

H. A. SALUNKHE.

Sign of Jr. Supervisor

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Dept. of Basic Sciences & Humanities (Degree)
PANHALA

F.Y.B.Tech. Block No. : A-206

Subject Name: Engineering mathematics - II Time: 9:30 to 10:30

Name of the Jr. Supervisor: Date: 15/5/25

| Roll No. | Branch | Candidate Name | Sign |
|---|---|---|---|
| 236 | CSE | SANGAR NANDINI PRADIP | Sangar |
| 237 | CSE | SANGOLKAR RAM KISAN | RKS |
| 238 | CSE | SANIKA MAHADEV PATIL | Patil |
| 239 | CSE | SHAIKH NILOFAR MEHABUB | Shaikh |
| 240 | CSE | SHEDGE ANANDI KALYAN | Shedge |
| 241 | CSE | SHINDE GOURI DHONDIRAM | GDShinde |
| 242 | CSE | SHINDE PRANAV SURESH | |
| 243 | CSE | SHRAVANI VISHWANATH BHUSAKE | |
| 244 | CSE | SONAWANE PRATHAMESH KALYAN | |
| 245 | CSE | SURVE GAURI KUMAR | G.K.S |
| 246 | CSE | SURYAWANSHI ANKITA AMAR | Ankita A. |
| 247 | CSE | VARPE TUSHAR JOTIBA | |
| 248 | CSE | VATHARE MANALI SUNIL | |
| 249 | CSE | WANDRE ARAVIND ANANT | |
| 250 | CSE | YADAV NEHA JAYSING | Neha |
| 251 | CSE | YADAV VAISHNAVI SHAMRAO | Vyadav |
| 252 | CSE | YARGATTI BHAKTI EKANATH | Bhakti |
| 253 | CSE | ZUGAR ROHIT NAVANATH | Rnegar |
| 254 | CSE | KARNALE SHREYA APPASAHEB | Shkaenale |
| 255 | CSE | MAHADIK PAYAL DIPAK | Payal |
| 256 | CSE | PATIL APURVA SANDIP | Apurva |
| 257 | CSE | SHINDE SANIKA SANTOSH | shinde |
| 258 | CSE | SHINDE VISHWAJEET SAGAR | Shinde |
| 259 | CSE | THORAT PIYUSH SADANAND | |

Sign of Jr. Supervisor

SANJEEVAN GROUP OF INSTITUTIONS Dept. of Basic Sciences & Humanities (Degree) PANHALA

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- Shaikh Nilofar Mehabub

No. 319159

**Dr. Babasaheb Ambedkar Technological University Lonere - Raigad**

Exam. No.: 239

Signature of the Supervisor:

Supplement No.: 1

18/20

Cube root of unity from a) Equilateral triangle

$\log(-1)$ a) $2n\pi i$

Sol$^n$ of Linear differential equation is $IF = e^{\int P\,dx}$ $y \cdot IF = \int Q \cdot IF\,dx + c$

I.F (Integrating Factor) of the diff. eq$^n$

$\frac{dy}{dx} - \frac{y}{x} = 0$ is $x = e^{\log x}$

$\frac{1}{x}$

$$\cos^2 x \frac{dy}{dx} + y = \tan x \quad (1)$$

$$\frac{dy}{dx} + \frac{1}{\cos^2 x} y = \frac{\tan x}{\cos^2 x}$$

$$\frac{dy}{dx} + \sec^2 x\, y = \frac{\tan x}{\cos^2 x} \quad (2)$$

eq$^n$ (2) is form of LDE

$$\frac{dy}{dx} + P \cdot y = Q \quad (3)$$

Comparing eq$^n$ (2) by eq$^n$ (3)

$\therefore P = \sec^2 x$ $Q = \frac{\tan x}{\cos^2 x}$

$IF = e^{\int \sec^2 x}$

$= e^{\tan x}$

Sol$^n$ :

$$Y\,IF = \int Q\,IF\,dx + c$$

$$Y e^{\tan x} = \int \frac{\tan x}{\cos^2 x} e^{\tan x} + c$$

$$= \int \tan x \cdot \sec^2 x \; e^{\tan x} + c$$

put $\tan x = t$

$\sec^2 x\,dx = dt$

$$= \int t \cdot e^t \, dt + c$$

$$= te^t - e^t + c$$

$$Y e^{\tan x} = \tan x \, e^{\tan x} - e^{\tan x} + c$$

$$= e^t (t - 1) + c$$

$$\boxed{Y e^{\tan x} = e^{\tan x} (\tan x - 1) + c}$$



a) $i \log \left( \frac{a - ib}{a + ib} \right)$

$$\log(a - ib) = \sqrt{x^2 + y^2} - i \tan^{-1}\left(\frac{b}{a}\right)$$

$$\log(a + ib) = \sqrt{x^2 + y^2} + \tan^{-1}\left(\frac{b}{a}\right)$$

$$= \log(a - ib) - \log(a + ib)$$

$$= \sqrt{x^2 + y^2} - i \tan^{-1}\left(\frac{b}{a}\right) - \sqrt{x^2 + y^2} + \tan^{-1}\left(\frac{b}{a}\right)$$

$\arg(z+1) = \frac{\pi}{6}$ — ① and $\arg(z-1) = \frac{2\pi}{3}$ — ②

$\arg(x+iy+1) = \frac{\pi}{6}$

$\arg((x+1)+iy) = \frac{\pi}{6}$

$\tan^{-1}\left(\frac{y}{x+1}\right) = \frac{\pi}{6}$

$\frac{y}{x+1} = \tan\frac{\pi}{6}$

$\frac{y}{x+1} = \frac{1}{\sqrt{3}}$

$\sqrt{3}y = x+1$

$-x + \sqrt{3}y = 1$ — ③

$\arg(x+iy-1) = \frac{2\pi}{3}$

$\arg((x-1)+iy) = \frac{2\pi}{3}$

$\tan^{-1}\left(\frac{y}{x-1}\right) = \frac{2\pi}{3}$

$\frac{y}{x-1} = -\sqrt{3}$

$\sqrt{3}x - \sqrt{3} = y$ — ②

$\sqrt{3}x - \sqrt{3} = \sqrt{3}$ — ④

eq$^n$ ③ & ④ multiply by $\sqrt{3}$

$\sqrt{3}x - y = \sqrt{3}$

$\sqrt{3}x + 3y = \sqrt{3}$

$\cancel{4x} + 4y = \frac{7\sqrt{3}}{4}$ 2

$\boxed{y = \sqrt{3}/2}$

Put in eq$^n$ ①

$-x + \sqrt{3}\left(\frac{\sqrt{3}}{2}\right) = 1$

$= x$

$\therefore \boxed{x = \frac{1}{2}}$

$$\boxed{\alpha = \frac{1}{2} + i\frac{\sqrt{3}}{2} = 0}$$

$$(1+y^2) + (x - e^{\tan^{-1} y})\frac{dy}{dx} = 0$$

$$\frac{dx}{dy} = \frac{x - e^{\tan^{-1} y}}{1+y^2} \quad \cancel{+(1+y^2)}$$

$$\frac{dx}{dy} = \frac{-x - e^{\tan^{-1} y}}{1+y^2}$$

$$\frac{dx}{dy} + \frac{x}{1+y^2} = \frac{-e^{\tan^{-1} y}}{1+y^2}$$

$$\frac{dx}{dy} - \frac{1}{1+y^2}x = \frac{-e^{\tan^{-1} y}}{1+y^2} \quad \text{——— (2)}$$



LDE form

$\therefore$

$$P = \frac{1}{1+y^2} \qquad Q = \frac{-e^{\tan^{-1} y}}{1+y^2}$$

$$IF = e^{\int \frac{1}{1+y^2}}$$

$$e^{\tan^{-1} y}$$

Sol$^n$ =

$$y\, e^{\tan^{-1} y} = \int \frac{e^{\tan^{-1} y}}{1+y^2} \cdot e^{\tan^{-1} y}\, dy + c$$

$$= \frac{1}{2}\int \frac{e^{2\tan^{-1} y}}{1+y^2}\, dy + c$$

Nilofar Mehabub Shaikh

No. 318771

Dr. Babasaheb Ambedkar Technological University Lonere - Raigad

Exam. No.: 239

Signature of the Supervisor:

Supplement No.: 2

$$= \frac{1}{2}\int \frac{e^{2\tan^{-1}y}}{1+y^2}$$

Put $\tan^{-1}y = t$

$$\frac{1}{1+y^2}dy = dt$$

05-1=04

$$r\, e^{\tan^{-1}y} = \frac{1}{2}\int \frac{e^{2t}}{\cancel{t}}\,dt$$

$$\boxed{r\, e^{\tan^{-1}y} = \frac{1}{2}e^{2\tan^{-1}y} +}$$

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Basic Sciences & Humanities (Degree)
PANHALA

Q. 2 (a) $\tan\left[i\left(\log\left(\frac{a-ib}{a+ib}\right)\right)\right]$

$$\log(a-ib) = \sqrt{a^2+b^2} - i\tan^{-1}\left(\frac{b}{a}\right)$$

$$\log(a+ib) = \sqrt{a^2+b^2} + i\tan^{-1}\left(\frac{b}{a}\right)$$

$$\log\left(\frac{a-ib}{a+ib}\right) = \log(a-ib) - \log(a+ib)$$

03

$$= \sqrt{x^2+b^2} - i\tan^{-1}\left(\frac{b}{a}\right) - \sqrt{x^2+b^2} + i\tan^{-1}\left(\frac{b}{a}\right)$$

$$= \sqrt{x^2+b^2} - \sqrt{x^2+b^2}$$

$$= i\tan^{-1}\left(\frac{b}{a}\right) + i\tan^{-1}\left(\frac{b}{a}\right)$$

$$= 2\tan^{-1}\left(\frac{b}{a}\right)$$

$$\tan\left[\frac{\tan\left(\frac{b}{a}\right) + \tan\left(\frac{b}{a}\right)}{1 + \tan^2\left(\frac{b}{a}\right)}\right]$$

$$= \frac{\frac{b}{a} + \frac{b}{a}}{1 + \frac{b^2}{a^2}}$$

$$= \frac{\frac{b}{a} + \frac{b}{a}\,(a^2)}{a^2 + b^2}$$

$$= \frac{\frac{2b}{a}\,(a^2)}{a^2+b^2}$$

$$= \frac{2b}{a^2+b^2}$$

Hence proved that,

$$\boxed{\tan\left[i\log\left(\frac{a-ib}{a+ib}\right)\right] = \frac{2ab}{a^2-b^2}}$$

log

$x^6 - i = 0$

$x^6 = i$

$x = (i)^{1/6}$

$x = \cos\frac{\pi}{2} + i\sin\frac{\pi}{2}$

put $2k\pi$

$= \cos\left(2k\pi + \frac{\pi}{2}\right) + i\sin\left(2k\pi + \frac{\pi}{2}\right)$

$= \cos\frac{4k\pi + \pi}{2} + i\sin\left(\frac{4k\pi + \pi}{2}\right)$

$k = 0, 1, 2, 3, 4, 5$

~~$k = 0$~~ ~~$x_1 = e^{i(5\pi}$~~

$= \cos\left(4k\pi + \frac{\pi}{2}\right)\frac{1}{6} + i\sin\left(\frac{4k\pi + \pi}{2}\right)\frac{1}{6}$

$= \cos\left(\frac{4k\pi + \pi}{12}\right) + i\sin\left(\frac{4k\pi + \pi}{12}\right)$

$= \cos\frac{(4k+1)\pi}{12} + i\sin\frac{(4k+1)\pi}{12}$

$k = 0 \quad = x_1 = e^{i\pi/12}$

$k = 1 \quad x_2 = e^{i5\pi/12}$

$k = 2 \quad x_3 = e^{i9\pi/12}$

$k = 3 \quad x_4 = e^{i}$

$k = 4 \quad x_5 = e^{i(17/12)}$

$=$

Q.2 b) $\frac{dy}{dx} + x\sin 2y = x^3\cos^2 y$

mulply by $\cos^2 y$

$\frac{1}{\cos^2 y}\frac{dy}{dx} + x\frac{\sin 2y}{\cos^2 y} = x^3$

$\sec^2 y$

0

**Head of Department**
Basic Sciences & Humanities(Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

**PRINCIPAL**
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

CA II - Assignment - Maths 2024/25
Sem II

HOLY-WOOD ACADEMY'S

# SANJEEVAN GROUP OF INSTITUTIONS, PANHALA

Tal . Panhala Dist. Kolhapur Pin – 416201 (M.S.)

Subject: - Engg. Math II  Class:- F.Y (B.Tech)

Roll No.:- 213  Exam No. _____

## INDEX



## CERTIFICATE

This is to Certify that MR. / Miss Sakshi Satish Patil of BSH (C.S.E) Class F.Y has completed the above mentioned experiments in the Subject Engg. maths II in the Laboratory of the Sanjeevan Group of Institutions, Panhala in Academic year 20-24 20-25

Date 28/06/25  Staff In charge  Head of Dept.  Principal

Head of Department
Basic Sciences & Humanities(Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur.

# FORMULAE

## (I) Logidrithm formulae -

- $a^x = y \Rightarrow x \log a = \log y = x = \frac{\log y}{\log a} = \log a^y$
- $(\text{Anything})^0 = 1$
- $\log 1 = 0$, $\log \infty = \infty$, $\log 0 = -\infty$
- $\log a^x = 1$
- $\log mn = \log m + \log n$
- $\log \frac{m}{n} = \log m - \log n$
- $\log m^p = p \log m$
- $a^m \cdot a^n = a^{m+n}$
- $(a^m)^n = a^{mn}$
- $\sqrt{p} = p^{\frac{1}{2}}$, $\sqrt[3]{p} = p^{1/3} \rightarrow (\sqrt{p})^3 = p^{3/2}$ etc.
- $a^{-m} = \frac{1}{a^m}$ or $\frac{1}{a^{-m}} = a^m$

$a^m / a^n = a^{m-n}$

$(ab)^m = a^m b^m$

$\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$

## (II) Expansion formulae -

- $(a+b)^2 = a^2 + 2ab + b^2$
- $(a-b)^2 = a^2 - 2ab + b^2$
- $(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$
- $(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$

For next formulae use persal Δ.

Parseal Triangle

1
1 2 1
1 3 3 1
1 4 6 4 1
1 5 10 10 5 1
1 6 15 20 15 6 1

- $a^2 - b^2 = (a+b)(a-b)$
- $a^3 + b^3 = (a+b)(a^2 - ab + b^2)$
- $a^3 - b^3 = (a-b)(a^2 + ab + b^2)$

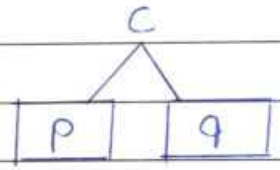
① Roots of quadratic equation -

i) $ax^2 + bx + c = 0 \quad (a = 1)$

$p.q = c$

$p + q = b$

Factors - $(x+p)(x+q) = 0$



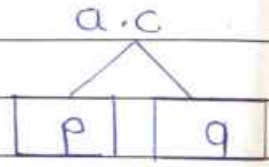

ii) $ax^2 + bx + c = 0 \quad (a \neq 1)$

$a.c = p.q$

$b = p + q$

Factors - $ax^2 + px + qx + c = 0$

Take Common form 1st two and last two terms and Solve.



② Roots of Cubic equation :- $ax^3 + bx^2 + cx + d = 0$

Use Synthetic division

| | | | | |
|---|---|---|---|---|
| | a | b | c | d |
| + ↓ | | | | |
| a | | | | d |

Start from 1, -1, 2, -2

↑ coeff of $x^2$ ↑ coeff of $x$ ↑ coeff of const

Or use Calsi for finding roots.

Ⓘ Rules of Partial fraction :-

Rules of P.F depend on Denominator (D) only

① If $\frac{N}{D} = \frac{N}{(ax+b)(cx+d)(ex+f)} = \frac{A}{(ax+b)} + \frac{B}{(cx+d)} + \frac{C}{(ex+f)}$

linear and non repeated factor

② If $\frac{N}{D}$ $\frac{N}{(ax+b)^2} = \frac{A}{ax+b} + \frac{B}{(ax+b)^2}$

linear and repeated $= \frac{N}{(ax+b)^3} = \frac{A}{ax+b} + \frac{B}{(ax+b)^2} + \frac{C}{(ax+b)^3}$

③ If $\frac{N}{D} = \frac{N}{ax^2+bx+c} = \frac{Ax+B}{ax^2+bx+c}$

quadratic and non repeated

$= \frac{N}{(ax^2+bx+c)(dx^2+ex+f)} = \frac{Ax+B}{ax^2+bx+c} + \frac{Cx+D}{dx^2+ex+f}$

④ If $\frac{N}{D} = \frac{N}{(ax^2+bx+c)^2} = \frac{Ax+B}{ax^2+bx+c} + \frac{Cx+D}{(ax^2+bx+c)^2}$

quadratic and repeated

- Trignometric Formulae :-

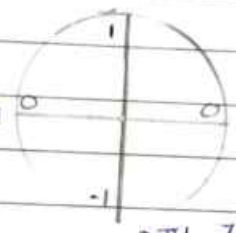
⟨i⟩ $\sin(A \pm B) = SA\,CB \pm CA \cdot SB$

⟨ii⟩ $\cos(A \pm B) = CA\,CB \mp SA \cdot SB$

⟨iii⟩ $\tan(A \pm B) = \dfrac{\tan A \pm \tan B}{1 \mp \tan A \cdot \tan B}$

⟨iv⟩ sine and cosine angle values

$\frac{\pi}{2}, \frac{5\pi}{2}, \frac{9\pi}{2}, 13\pi/2$ ... et



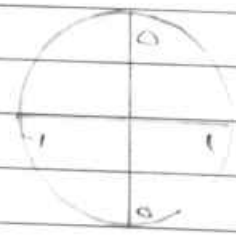

etc... $9\pi, 7\pi, 5\pi, 3\pi, \pi$

$0, 2\pi, 4\pi, 6\pi, 8\pi$ ... etc

$3\pi/2$ $7\pi/2$ $11\pi/2$ ... etc.

$\boxed{\sin\theta}$

e.g - $\sin 2\pi = 0$, $\sin 3\pi = 0$, $\sin 7\pi/2 = -1$, $\sin 5\pi/2 = 1$ ...




Angles are same abov

$\boxed{\cos\theta}$

e.g $\cos\pi = -1$, $\cos 4\pi = 1$ ..... etc.

⟨v⟩ $\sin(n\pi + \theta) = (-1)^n \sin\theta$

* $\sin(n\pi - \theta) = (-1)^{n+1} \sin\theta$

$\cos(n\pi \pm \theta) = (-1)^n \cos\theta$

⟨vi⟩ $2SA\,CB = S(A+B) + S(A-B)$

$2c\downarrow\ s\downarrow = s\downarrow\ s\downarrow$

$2C\downarrow C\downarrow = C\downarrow + C\downarrow$

$2S\downarrow S\downarrow = C_{\uparrow} - C_{\uparrow}$

A−B  A+B

$SC + SD = 2S\left(\frac{C+D}{2}\right) S\left(\frac{C-D}{2}\right)$

$S\downarrow - S\downarrow = 2C\downarrow \quad S\downarrow$

$C\downarrow + C\downarrow = 2C\downarrow \quad C\downarrow$

$C\downarrow - C\downarrow = -2S\downarrow \quad S\uparrow$

(vii) $\sin(\pi/2 + \theta) = \cos\theta$, $\cos(\pi/2 + \theta) = -\sin\theta$

(i) $\sin\left(\frac{n\pi}{2} \pm \theta\right) = \pm \sin\theta \therefore (n\text{-even})$
$= \pm \cos\theta \therefore (n\text{-odd})$

(ii) $\cos(n\pi/2 \pm \theta) = \pm \sin\theta \therefore (n\text{-odd})$
$= \pm \cos\theta \therefore (n\text{-even})$

- Double angle formulae -

$\sin 2\theta = 2\sin\theta\cos\theta = 2t/1+t^2 \quad (t = \tan\theta)$

$\cos 2\theta = 2\cos^2\theta - 1$
$= 1 - 2\sin^2\theta$
$= \cos^2\theta - \sin^2\theta$
$= \frac{1-t^2}{1+t^2}$

we can convert these formulae to half angle formulae.
For. e.g $\sin\theta = 2\sin\theta/2 \cdot \cos\theta/2$

$\tan 2\theta = \frac{2t}{1-t^2}$

- Triple angle formulae -

$\sin 3\theta = 3\sin\theta - 4\sin^3\theta$

$\cos 3\theta = 4\cos^3\theta - 3\cos\theta$

$\tan 3\theta = \frac{3t - t^3}{1 - 3t^2} \quad (t = \tan\theta)$

$\sin^3\theta + \cos^3\theta = 1$

$1 + \tan^2\theta = \sec^2\theta$

$1 + \cot^2\theta = \operatorname{cosec}^2\theta$

## • Integration formulae -

| $f(x)$ | $\int f(x)\,dx$ |
|---|---|
| $1$ | $x$ |
| $k$ | $kx$ |
| $x^n$ | $x^{n+1}/n+1$ |
| $e^x$ | $ex$ |
| $a^x$ | $a^x/\log a$ |
| $\sin x$ | $-\cos x$ |
| $\cos x$ | $\sin x$ |
| $\tan x$ | $\log(\sec x)$ |
| $\cot x$ | $\log(\sin x)$ |
| $\sec x$ | $\log(\sec x + \tan x)$ |
| $\operatorname{cosec} x$ | $\log(\operatorname{cosec} x - \cot x)$ |

All formulae are
( )
e.g $e^{x} \xrightarrow{I} e^{x}$
$e^{()} \xrightarrow{I} \frac{e^{()}}{a()}$

( ) = Contains eq
in only 1 pow

If ( ) = Contain
term then
other a fo

* a formulae -

1] $\int \frac{1}{x^2+a^2}\,dx = \frac{1}{a}\tan^{-1}\frac{x}{a}$

2] $\int \frac{1}{x^2-a^2}\,dx = \frac{1}{2a}\log\frac{x-a}{x+a}$

3] $\int \frac{1}{a^2-x^2}\,dx = \frac{1}{2a}\log\frac{a+x}{a-x}$

1] $\int \frac{1}{\sqrt{x^2+a^2}}\,dx = \log\left(x+\sqrt{x^2+a^2}\right)$

2] $\int \frac{1}{\sqrt{x^2-a^2}}\,dx = \log\left(x+\sqrt{x^2-a^2}\right)$

3] $\int \frac{1}{\sqrt{a^2-x^2}}\,dx = \sin^{-1}\left(\frac{x}{a}\right)$

1] $\int \sqrt{x^2 \pm a^2}\,dx = \frac{x}{2}\sqrt{x^2 \pm a^2} \pm \frac{a^2}{2}\log\left(x+\sqrt{x^2 \pm a^2}\right)$

2] $\int \sqrt{a^2-x^2}\,dx = \frac{x}{2}\sqrt{a^2-x^2} + \frac{a^2}{2}\sin^{-1}(x/a)$

- $\int \frac{f_1(x)}{f(x)}\,dx = \log(x)$, $\int \frac{f'(x)}{\sqrt{f(x)}}\,dx = 2\sqrt{f(x)}$

- $\int uv\,dx = uv_1 - uv_2 + u''v_3 - \cdots$ (uv rule)
  {(If $a(u) \to 0$ then use this formula)}
  $u$ = Algebraic = A}

If Contains derivatives of u and integration of v

$$\int_a^b uv\,dx = u\int v \Big|_a^b - \int_a^b \left(\int v.du\right) dx$$
$$\int uv\,dx = u\int v + \int \left(\int v.du\right) dx$$
} LIATE RULE

- $\int_a^b f(x)\,dx = -\int_b^a f(x)\,dx$

- $\int e^{ax}\cos bx\,dx = \frac{e^{ax}}{a^2+b^2}\left[a\cos bx + b\sin bx\right]$

- $\int e^{ax}\sin bx\,dx = \frac{e^{ax}}{a^2+b^2}\left[a\sin bx - b\cos bx\right]$

- $\int_{-\infty}^{\infty} e^{-x^2}\,dx = \sqrt{\pi}$

- $\int_0^{\sqrt{t}} e^{-x^2}\,dx = \mathrm{erf}(\sqrt{t})$

- DUIS Rule :- $I(\alpha) = \int_a^b f(x)\,\alpha\,dx$

$$\frac{dI}{d\alpha} = \int_a^b \left[\frac{\partial}{\partial \alpha} f(x,\alpha)\right] dx$$
$x$ = Const

- $\int_0^{\infty} \frac{\sin x}{x}\,dx = \frac{\pi}{2}$

- Derivative formulae -

| $x$ | $f(x)$ |
|---|---|
| $k$ | $0$ |
| $k^x$ | $k$ |
| $kx^n$ | $knx^{n-1}$ |
| $ex$ | $e^x$ |
| $a^x$ | $a^x \log a$ |
| $\sin^x$ | $\cos x$ |
| $\cos^x$ | $-\sin x$ |
| $\tan^x$ | $\sec^2 x$ |
| $\cot^x$ | $-\operatorname{cosec}^2 x$ |
| $\sec^x$ | $\sec x . \tan x$ |
| $\operatorname{cosec}^x$ | $-\operatorname{cosec} \cot x$ |
| $\sin^{-1} x$ | $\frac{1}{\sqrt{1-x^2}}$ |
| $\cos^{-1} x$ | $-1/\sqrt{1-x^2}$ |
| $\tan^{-1} x$ | $1/1+x^2$ |
| $\sec^{-1} x$ | $1/x\sqrt{x^2-1}$ |
| $\operatorname{cosec}^{-1} x$ | $-1/x\sqrt{x^2-1}$ |

All formulae a

e.g $e^x \xrightarrow{d} e^x$
$e^{()} \xrightarrow{d}, e^{()}$

() = Contains any power 's' equation

- Product rule - $\frac{d}{dx}(uv) = u\frac{dv}{dx} + v\frac{du}{dx}$

- quotient rule - $\frac{d}{dx}\left(\frac{u}{v}\right) = \frac{v\, du/dx - u\, dv/dx}{v^2}$

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# SANJEEVAN

GROUP OF INSTITUTIONS, PANHALA

***Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.***

## CIVIL DEPT. Academic Calendar for A.Y. 2024-2025 (Odd Semester)

| Month | Week/ Days | | | | | | | working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| AUGUST | | | | 1 | 2 | 3 | 4 | 2 | 1- Admission Reporting, Commencement of Classes |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 6 | 9- Project Phase I Presentation no 1, DAB Meeting |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 4 | 15 - Independence Day, Parsi New Year |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 6 | 24- Project Phase I Presentation no. 2, MOU activity |
| | 26 | 27 | 28 | 29 | 30 | 31 | | 5 | 29-30- CA-1, 30 Mentor Mentee meeting, 30 monthly att |
| SEPTEMBER | | | | | | | 1 | 0 | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | 7- Shri Ganesh Chaturthi |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 6 | 15- Engineer's Day , All feedbacak |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 4 | 16- Eid-e-Milad |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 6 | 26-28- Mid Semester Exam. |
| | 30 | | | | | | | 1 | 23,24,25 - SUR Project, BCD Visit, PCS Lab Visit 30- 30 m attend. |
| OCTOBER | | 1 | 2 | 3 | 4 | 5 | 6 | 3 | 2- Mahatma Gandhi Jayanti. |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 5 | 12-Dussehra |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 5 | |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 6 | |
| | 28 | 29 | 30 | 31 | | | | 4 | 31- 30 monthly attend. |
| NOVEMBER | | | | | 1 | 2 | 3 | 0 | 1- Laxmi Pujan, 2-Bali Pratipada |
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 6 | 24- Project Phase I Presentation no. 3, Field training presentation |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 4 | 15- Guru Nanak Jayanti |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 5 | 22- End of Classes, 22-23-CA-2 |
| | 25 | 26 | 27 | 28 | 29 | 30 | | | Practical/Seminar/Mini Project Exam. |
| DECEMBER | | | | | | | 1 | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 2-26- End Semester Exam. |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | | |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | | 25- Christmas |
| | 30 | 31 | | | | | | | 27Dec 24- 20Jan25- Field Training/Internship/Industri Training report submission |
| Govt. Holiday | | | CA/MSE/Pract. Exam/ESE | | | | | 83 | 21st January 2025 Commencement of Classes for Next semester |
| Activities | | | Institute Holiday | | | | | | |

| Mrs. A. M. Momin | MR. J. S. Mevekari | Mr. E. P. Salokhe |
|---|---|---|
| Co ordinator | HOD | Dean Academics |

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Civil Engineering
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# SANJEEVAN

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## Departmental Academic Calendar for A.Y. 2024-2025 (Even Semester)

| Month | Week/ Days | | | | | | | working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| FEBRUARY | | | | | | 1 | 2 | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | 05 -27 Feb- Winter 2024 End Sem Exam |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | 12-Sant Rohidas Jayanti |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | 19-Chha. Shivaji Maharaj Jayanti, 23 -Sant Gadage Baba Jay. |
| | 24 | 25 | 26 | 27 | 28 | | | | 26-Mahashivratri, 27-Marathi Bhasha Din, 28- Science Day |
| MARCH | | | | | | 1 | 2 | 0 | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 6 | 3- Commencement of Classes, 5-9:Sports, 8- Mahila Din |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 4 | 12 & 13:Annual Social Gathering, 14-Dhulivandan |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 6 | |
| | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 5 | 28- PARIKRAMAA, 30-Gudhi Padwa |
| | 31 | | | | | | | 0 | 31-Ramjan Id (Id-Ul-Fitra) |
| APRIL | | 1 | 2 | 3 | 4 | 5 | 6 | 4 | 3-DAB Meeting 6-Shri Ram Navami |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 5 | 10-Bhagwan Mahavir Janmkalyanak, 11-12:CA-1 |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 3 | 14-Dr.Ambedkar Jayanti, 15-16- Project phase II Presentation 18-Good Friday, 19-Parent Meet, 20-Easter Sunday |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 6 | 25-Mini project presentation for TY |
| | 28 | 29 | 30 | | | | | 3 | 30-Basaveshwar Jayanti |
| MAY | | | | 1 | 2 | 3 | 4 | 1 | 1-Maharashtra Din, 2-7: Mid Semester Exam, 13-16:Project phase II Presentation |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 6 | |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 4 | 12-Buddha Pournima 14-Chha. Sambhajiraje Jayanti. |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 6 | 20-Depat. Site visit/industrial Tour |
| | 26 | 27 | 28 | 29 | 30 | 31 | | 5 | 27-Departmental technical event 28-Swa. Savarkar Jayanti, 31-Punya.Ahilyabai Jayanti |
| JUNE | | | | | | | 1 | 0 | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | 2- Guest lecture 5-World Env Day, 7-Bakri Id (Id-Uz-Zuha) |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 5 | 9-Chha. Shiv Rajyabhishek Din |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 6 | 16-21:Project phase II Presentation , 18-20: CA-2, 20-End of Classes, 21-23: Pract/Seminar/Mini Proj Exam, 24th June-03rd July: End Semester Exam. 26-Chha.Shahu Jayanti, 21 June-30 July:Vacation Slot |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 0 | |
| | 30 | | | | | | | 0 | |
| Govt. Holiday | | CA/MSE/Pract. Exam/ESE | | | | | | 80 | 6 July- Moharam, 26th July 2025: Result Declaration, 01 Aug. 2025 Commencement of Classes for Next semester |
| Activities | | Institute Holiday | | | | | | | |

**Notes:** 1. The above dates may be altered in accordance with the directives issued by regulatory authorities. Additionally, classes on few Sundays will be conducted, except public holidays declared by the govt.

2. In align with this, each department is required to develop it's own calendar to accurately represent departmental activities, Industrial Visits and Student Intrenships etc.....

Head of Department
HOD Engg (Degree)

DTE Code : EN6315

HOLY-WOOD ACADEMY'S
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Pin- 416 201 (Maharashtra) Phone : 9146999500

NAAC Accredited
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AISHE Code : C-11165

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Date –09/09/2025

# NOTICE

## CA-I Test

## T.Y. and B.Tech.

All T.Y and B.Tech students are hereby informed that **CA-I Test** is scheduled on **12th September 2025**. Kindly take a note.

**Attendance is mandatory**

Prof. S. R. Salokhe
Exam co-ordinator

Prof. J.S. Mevekari
H.O.D. Civil

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Civil Engineering (Degree)
PANHALA

Head of Department
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DTE Code : EN6315

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Date –18/09/2025

# NOTICE

## CA-I Test

## S.Y.

All S.Y students are hereby informed that **CA-I Test** is scheduled on **22th September 2025**. Kindly take a note.

**Attendance is mandatory**

Prof. S. R. Salokhe
Exam co-ordinator

Prof. J.S. Mevekari
H.O.D. Civil

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Civil Engineering (Degree)
PANHALA

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Date –18/09/2025

# NOTICE

## CA -I

## S.Y (SEM- III)

The **CA-I** test is scheduled on **22nd September 2025**. In regard all the staff is here by informed to submit their **CA-I** TEST question paper hard copy 2 sets with answer key to the Exam co-ordinator on or **before 19th September 2024** till 2 pm, otherwise they have to make Xerox set with number of student & submit to Exam co-ordinator

Prof. S. R. Salokhe
Exam co-ordinator

Prof. J.S. Mevekari
H.O.D. Civil

1 SSC
2 AMM
3 CNP
4 NaGK

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Date –09/09/2025

# NOTICE

## CA -I

## T.Y, B.Tech. (SEM- V, VII)

The **CA-I** test is scheduled on **12th September 2025**. In regard all the staff is here by informed to submit their **CA-I** TEST question paper hard copy 2 sets with answer key to the Exam co-ordinator on or **before 11th September 2024** till 2 pm, otherwise they have to make Xerox set with number of student & submit to Exam co-ordinator

Prof. S. R. Salokhe
Exam co-ordinator

Prof. J.S. Mevekari
H.O.D. Civil

1 EPS
2 SSC
3 ACT
4 AMM
5 CNP

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Civil Engineering (Degree)
PANHALA

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DTE Code : ENG315

NAAC Accredited

AICTE ID : 1-5019451
AISHE Code : C-11165

SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA

Examination Section

Date 30/09/2025

# Mid Semester Examination Notice

All **B. Tech students** are informed that **Mid Semester Examination is scheduled from date 06 October to 08 October 2025.** The examination will be conducted through offline mode in institute. All must take a note.

Students are directed to ensure their presence fifteen minutes before the commencement of the examination in the examination hall/room, failing to which they shall not be allowed to appear in the examination. No hearing shall take place in this matter if the student is disallowed for non compliance.

| Examinations | Semester | Scheduled Examinations |
|---|---|---|
| Mid Semester Examination Winter 2025 | V & VII | 06 October to 08 October 2025 |

**Important Instructions**

1. Bring your **Student ID**. You will not be allowed into the exam hall without Student ID
2. Do not bring any unauthorized material (e.g. written notes, notes in dictionaries, paper, and sticky tape eraser). Pencil cases and glasses cases must not be taken to your desks. These will be checked and confiscated.
3. Make sure that No Institution dues/ Fees are pending before appearing examination.

| Sr. No. | Details | Signature |
|---|---|---|
| 1 | HOD - Electrical Engg. | |
| 2 | HOD - Civil Engg. | |
| 3 | HOD - Computer Sci.& Engg. | |
| 4 | HOD - Mechanical Engg. | |
| 5 | HOD - Electronics & Computer Engg. | |

Copy fwd. to:

1. All Heads of the departments, S.G.I. Panhala
2. All Department Exam coordinators, S.G.I. Panhala
3. Student notice board

EXAMINATION COORDINTOR ACADEMIC DEAN PRINCIPAL

HOLY-WOOD ACADEMY'S
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Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.

Date –29/09/2025

# NOTICE

## MSE

## S.Y. B.Tech. (SEM- III)

The **MSE** is scheduled on **01st October 2025** and **03rd October 2025**. In regard all the staff is hereby informed to submit their **MSE** question paper, hard copy 2 sets with Answer key to the Exam co-ordinator on or **before 30th September 2025** till 2 pm, otherwise they have to make Xerox set with number of student & submit to Exam co-ordinator

Prof. S. R. Salokhe
Exam co-ordinator

Prof. J.S. Mevekari
H.O.D. Civil

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur , 416201

1 NGK -
2 AMM -
3 SSC -
4 CNP -

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Civil Engineering (Degree)

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Date –13/11/2025

# NOTICE

## CA -II

## T.Y, B.Tech. (SEM- V, VII)

The **CA-II** test is scheduled on **18th November and 19th November 2025**. In regard all the staff is here by informed to submit their **CA-II** TEST question paper hard copy 2 sets with answer key to the Exam co-ordinator on or **before 14th November 2025** till 2 pm, otherwise they have to make Xerox set with number of student & submit to Exam co-ordinator

Prof. S. R. Salokhe
Exam co-ordinator

Prof. J.S. Mevekari
H.O.D. Civil

1 EPS
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5 CNP

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Date –02/12/2025

# NOTICE

## CA-II

## S.Y. B.Tech. (SEM- III)

The **CA-II** is scheduled on **05th December 2025**. In regard all the staff is hereby informed to submit their **CA-II** question paper, hard copy 2 sets with Answer key to the Exam co-ordinator on or **before 03rd December 2025** till 2 pm, otherwise they have to make Xerox set with number of student & submit to Exam co-ordinator

Prof. S. R. Salokhe
Exam co-ordinator

Prof. J.S. Mevekari
H.O.D. Civil

1 AMM -
2 SSC -
3 CNP -

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Date –09/09/2025

**All the students are hereby informed that, CA-I is scheduled on 12th September 2025.**

**Time Table is as follows**

| CA-I TIME TABLE 2025-2026 | | | |
|---|---|---|---|
| **DATE** | **TIME** | **T.Y. B.Tech** | **B.Tech** |
| 12-09-2025 | 10:00am To 10:30am | DSS | DRPS |
| | 10:40am To 11:10am | SM-II | IE |
| | 11:20am To 11:50am | GT | CT |
| | 12:00pm To 12:30pm | PM | PP |
| | 12:40pm To 01:10pm | MTE | BRE |
| | 01:30pm To 02:00pm | GT | |

Prof. S. R. Salokhe

Dept. Exam Incharge

SANJEEVAN GROUP OF INSTITUTIONS PANHALA
Dept. of Civil Engineering (Degree)

Prof. J.S. Mevekari

H.O.D. Civil

Head of Department
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**Date –29/09/2025**

**All the S.Y. B.Tech students are hereby informed that, MSE is scheduled on 01/10/2025 and 03/10/2025.**

**Time Table is as follows**

| MSE TIME TABLE 2025-2026 | | |
|---|---|---|
| **DATE** | **TIME** | **S.Y. B.Tech** |
| 01-10-2025 | 10:00am To 11:00am | Engineering Mathematics- III |
| | 12:00pm To 01:00pm | Building Construction |
| | 02:00pm To 03:00pm | Surveying |
| 03-10-2025 | 10:00am To 11:00am | Mechanics of Solids |
| | 12:00pm To 01:00pm | Building Materials |

Prof. S. R. Salokhe
Dept. Exam Incharge

SANJEEVAN GROUP OF INSTITUTE Dept. of Civil Engineering (Degree) PANHALA

Prof. J.S. Mevekari
HOD Department
Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur , 416201

HOLY-WOOD ACADEMY'S
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Date –13/11/2025

**All the students of T.Y. and B.Tech are hereby informed that, CA-II is scheduled on 18th November and 19th November 2025.**

**Time Table is as follows**

| CA-II TIME TABLE 2025-2026 | | | |
|---|---|---|---|
| **DATE** | **TIME** | **T.Y. B.Tech** | **B.Tech** |
| 18-11-2025 | 10:00am To 10:30am | DSS | DRPS |
| | 11:00am To 11:30am | SM-II | IE |
| | 12:00pm To 12:30pm | GT | CT |
| 19-11-2025 | 10:00am To 10:30am | PM | PP |
| | 11:00am To 11:30am | MTE | BRE |
| | 12:00pm To 12:30pm | CT | -- |

Prof. S. R. Salokhe
Dept. Exam Incharge

Prof. J.S. Mevekari
H.O.D. Civil

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Civil Engineering (Degree)
PANHALA

Head of Department
Civil Engg.
Sanjeevan Group of Institutions
Somwar Peth, Injoli, Panhala, Dist. Kolhapur

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**SANJEEVAN GROUP OF INSTITUTIONS, PANHALA**

**DEPARTMENT OF CIVIL ENGINEERING**

**C.A.1**

Class – Third Year B. Tech Civil  Subject – Concrete Technology (BTCVC 504)  Marks -10

Date – 19/11/2025  Time ~~1hour~~ 30 min

Name of Student:  Roll No.  PRN No.

**Instructions: –** 1. All questions are compulsory.
2. Write option of answer in Ans column

| Q. No | Question | Ans | CO | PO | Mks |
|---|---|---|---|---|---|
| 1. | Following is the code of concrete mix design?<br>a) IS 10262: 1982 b) IS 10262: 2002<br>c) Both d) None of This | | 3 | 1 | 1 |
| 2. | Following are the ingredients of mix design?<br>a) Fine aggregates b) Course aggregates<br>c) Cement d) All above | | 4 | 1 | 1 |
| 3. | Material used in design mix are measured in?<br>a) Liters b) Weight<br>c) Brass d) copper | | 3 | 1 | 1 |
| 4. | Design mix is done with?<br>a) Rapid Hardening Cement b) Quick Setting Cement<br>c) Low Heat Cement d) Ordinary Portland Cement | | 3 | 1 | 1 |
| 5. | From Table I, standard deviation, s = ?<br>a) 0.0 N/mm² b) 1 N/mm²<br>c) 5 N/mm² d)10 N/mm 2 | | 4 | 1 | 1 |
| 6. | f'ck = fck + ___ s<br>a) 1.65 b) 5.16<br>c) 1.11 d) 6.15 | | 3 | 1 | 1 |
| 7. | According to size, aggregates is/are classified into<br>a) fine aggregates b) coarse aggregates<br>c) all in aggregates d) All of above | | 3 | 1 | 1 |
| 8. | From Table 5 of IS 456, maximum water-cement ratio = ?<br>a) 0.50 b) 0.55<br>c) 0.50 d) 0.4 | | 4 | 1 | 1 |
| 9. | IS 10262 : 2009 Allowed chemical admixture<br>a) NO b) YES | | 4 | 1 | 1 |
| 10 | Specific gravity of cement?<br>a) 3.15 b) 1.35<br>c) 5.31 d) 3.51 | | 4 | 1 | 1 |

Holy-wood Academy's

**SANJEEVAN GROUP OF INSTITUTIONS, PANHALA**

**DEPARTMENT OF CIVIL ENGINEERING**

**C.A.1**

Class – Third Year B. Tech Civil | Subject – Concrete Technology (BTCVC 504) | Marks -10

Date – 19 /11 /2025 | Time – 30 min

Name of Student: | Roll No. | PRN No.

**Instructions: –** 1. All questions are compulsory.
2. Write option of answer in Ans column

**Answer Solution**

| Q. No | Question | Ans | CO | PO | Mks |
|---|---|---|---|---|---|
| 1. | Following is the code of concrete mix design?<br>a) IS 10262: 1982 b) IS 10262: 2002<br>c) Both d) None of This | C | 3 | 1 | 1 |
| 2. | Following are the ingredients of mix design?<br>a) Fine aggregates b) Course aggregates<br>c) Cement d) All above | D | 4 | 1 | 1 |
| 3. | Material used in design mix are measured in?<br>a) Liters b) Weight<br>c) Brass d) copper | B | 3 | 1 | 1 |
| 4. | Design mix is done with?<br>a) Rapid Hardening Cement b) Quick Setting Cement<br>c) Low Heat Cement d) Ordinary Portland Cement | D | 3 | 1 | 1 |
| 5. | From Table I, standard deviation, s = ?<br>a) 0.0 N/mm² b) 1 N/mm²<br>c) 5 N/mm² d)10 N/mm 2 | C | 4 | 1 | 1 |
| 6. | f'ck = fck + ___ s<br>a) 1.65 b) 5.16<br>c) 1.11 d) 6.15 | A | 3 | 1 | 1 |
| 7. | According to size, aggregates is/are classified into<br>a) fine aggregates b) coarse aggregates<br>c) all in aggregates d) All of above | D | 3 | 1 | 1 |
| 8. | From Table 5 of IS 456, maximum water-cement ratio = ?<br>a) 0.50 b) 0.55<br>c) 0.50 d) 0.4 | A | 4 | 1 | 1 |
| 9. | IS 10262 : 2009 Allowed chemical admixture<br>a) NO b) YES | A | 4 | 1 | 1 |
| 10 | Specific gravity of cement?<br>a) 3.15 b) 1.35<br>c) 5.31 d) 3.51 | A | 4 | 1 | 1 |

**Holywood Academy's**
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**DEPARTMENT OF CIVIL ENGINEERING**
**C.A.2**

Class – Third Year B. Tech Civil | Subject –Geotechnical Engineering (BTCVC502) | Marks -10
Date – 18/11 /2025 | Time – 30 min.
Name of Student: | Roll No. | PRN No.

**Instructions:** – 1. All questions are compulsory.2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column

| Q. No | Question | Ans | CO | PO | Mks |
|---|---|---|---|---|---|
| 1. | Which of the following is the primary factor affecting the permeability of soil?<br>A) Soil color C) Soil temperature<br>B) Soil texture D) Soil moisture content | | 1 | 1 | 1 |
| 2. | In Darcy's law, the hydraulic gradient is defined as the ratio of:<br>A) Discharge to area C) Permeability to flow rate<br>B) Difference in water head to flow length D) None of the above | | 1 | 1 | 1 |
| 3. | Which of the following conditions leads to a "quick sand" phenomenon?<br>A) Low water content B) High permeability of soil<br>C) High pore water pressure in soil D) Low saturation of soil | | 1 | 1 | 1 |
| 4. | Which method is commonly used to determine permeability in the laboratory?<br>A) Tri-axial test B) Falling head permeability test<br>C) Unconsolidated un-drained test D) Vane shear test | | 1 | 1 | 1 |
| 5. | Laplace's equation is used to calculate:<br>A) Shear strength of soil B) Seepage flow through soil<br>C) Stress distribution in soil D) Soil consolidation | | 1 | 1 | 1 |
| 6. | Coulomb's shear strength theory assumes that the shear strength of a soil depends on:<br>A) The normal stress and cohesion of the soil B) The friction angle only<br>C) The water content D) The density of the soil | | 1 | 1 | 1 |
| 7. | In the Mohr's Circle, the principal stresses are represented by:<br>A) Points where the circle intersects the x-axis<br>B) Points where the circle intersects the y-axis<br>C) The radius of the circle<br>D) The center of the circle | | 1 | 1 | 1 |
| 8. | Which type of shear test is best for unsaturated soils?<br>A) Consolidated un-drained test B) Unconsolidated un-drained test<br>C) Consolidated drained test D) Direct shear test | | 1 | 1 | 1 |
| 9. | Which of the following shear tests involves loading a soil sample in a confined chamber?<br>A) Direct shear test B) Unconsolidated un-drained test<br>C) Tri-axial compression test D) Vane shear test | | 1 | 1 | 1 |
| 10 | The vane shear test is most commonly used to determine:<br>A) The shear strength of saturated cohesive soils<br>B) The permeability of the soil<br>C) The cohesion and friction angle in granular soils<br>D) The compressibility of clayey soils | | 1 | 1 | 1 |

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SANJEEVAN GROUP OF INSTITUTIONS, PANHALA
DEPARTMENT OF CIVIL ENGINEERING
C.A.2

Class – Third Year B. Tech Civil
Date – /11 /2025
Name of Student:

Subject –Geotechnical Engineering (BTCVC502)

Roll No.

PRN No.

Marks -10
Time – 30 min.

**Instructions:** – 1. All questions are compulsory.2. Use of non-programmable calculators is permitted.
3. Write option of answer in Ans column.

| Q. No | ANSWER KEY | Ans | CO | PO | Mks |
|---|---|---|---|---|---|
| 1. | Which of the following is the primary factor affecting the permeability of soil?<br>A) Soil color C) Soil temperature<br>B) Soil texture D) Soil moisture content | B | 1 | 1 | 1 |
| 2. | In Darcy's law, the hydraulic gradient is defined as the ratio of:<br>A) Discharge to area C) Permeability to flow rate<br>B) Difference in water head to flow length D) None of the above | B | 1 | 1 | 1 |
| 3. | Which of the following conditions leads to a "quick sand" phenomenon?<br>A) Low water content B) High permeability of soil<br>C) High pore water pressure in soil D) Low saturation of soil | C | 1 | 1 | 1 |
| 4. | Which method is commonly used to determine permeability in the laboratory?<br>A) Tri-axial test B) Falling head permeability test<br>C) Unconsolidated un-drained test D) Vane shear test | B | 1 | 1 | 1 |
| 5. | Laplace's equation is used to calculate:<br>A) Shear strength of soil B) Seepage flow through soil<br>C) Stress distribution in soil D) Soil consolidation | B | 1 | 1 | 1 |
| 6. | Coulomb's shear strength theory assumes that the shear strength of a soil depends on:<br>A) The normal stress and cohesion of the soil B) The friction angle only<br>C) The water content D) The density of the soil | A | 1 | 1 | 1 |
| 7. | In the Mohr's Circle, the principal stresses are represented by:<br>A) Points where the circle intersects the x-axis<br>B) Points where the circle intersects the y-axis<br>C) The radius of the circle<br>D) The center of the circle | A | 1 | 1 | 1 |
| 8. | Which type of shear test is best for unsaturated soils?<br>A) Consolidated un-drained test B) Unconsolidated un-drained test<br>C) Consolidated drained test D) Direct shear test | C | 1 | 1 | 1 |
| 9. | Which of the following shear tests involves loading a soil sample in a confined chamber?<br>A) Direct shear test B) Unconsolidated un-drained test<br>C) Tri-axial compression test D) Vane shear test | C | 1 | 1 | 1 |
| 10 | The vane shear test is most commonly used to determine:<br>A) The shear strength of saturated cohesive soils<br>B) The permeability of the soil<br>C) The cohesion and friction angle in granular soils<br>D) The compressibility of clayey soils | A | 1 | 1 | 1 |

| | |
|---|---|
| | **DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.** |
| | Sanjeevan Group of Institutions, Panhala. |
| | **Department of Civil Engineering** |
| | **Mid Semester Examination Winter 2024** |

| | | |
|---|---|---|
| | **SEMESTER: V** | **ACADEMIC YEAR:** 2024-25 |
| | **NAME Of STUDENT:** | **PRN.:** |
| | **CLASS: T.Y.** B. Tech. | **Time : 2:30 to 3:30** |
| | **DAY & DATE: Tuesday 27/09/2024** | **Marks: 20** |
| | **BTCVC504 Concrete Technology** | |

**Instructions to the Students:**

1. **All questions are compulsory**
2. **Assume suitable data if necessary**

| Que No. | Sub Que | Question | CO | PO | BL | Marks |
|---|---|---|---|---|---|---|
| **1.** | | **Attempt the Following** | **4×1 =4** | | | |
| | a. | What is the moisture content in slurry for wet process?<br>a) 35-50% b) 12% c) 40-45% d) 100% | **1** | | **1** | 1 |
| | b. | The development of first 28 days strength is on account of the hydration of<br>a) $C_2S$ b) $C_3S$ c) $C_3A$ d) $C_4AF$ | **1** | | **1** | 1 |
| | c. | Which apparatus is generally used to measure the soundness of the cement?<br>a) Vicat Apparatus b) Le-Chatelier apparatus<br>c) Soundness meter d) Duff Abrams apparatus | **2** | | **1** | 1 |
| | d. | Which of the following option doesn't come in chemical admixtures?<br>a) Plasticizers b) Pozzolanic<br>c) Super plasticizer d) Accelerators | **3** | | **1** | 1 |
| **2.** | | **Solve Any Two Of The Following** | **3 ×2 = 6** | | | |
| | a. | Enlist various types of tests done on aggregates | **1** | | **2** | 3 |
| | b. | Classify the grading of aggregates | **2** | | **2** | 3 |
| | c. | Enlist various curing methods | **2** | | **2** | 3 |
| **3** | | **Solve Any two of the following** | **5 ×2 = 10** | | | |
| | a. | Describe Cement manufacturing process with neat sketch | **1** | | **2** | 5 |
| | b. | Classify the admixture and describe their role in design mix | **2** | | **2** | 5 |
| | c. | Describe different types of concrete transportation | **2** | | **2** | 5 |

********** END **********

# Answer Solution

| Que No. | Sub Que | Question | CO | PO | BL | Marks |
|---|---|---|---|---|---|---|
| **1.** | | **Attempt the Following** | **4×1 =4** | | | |
| | a. | What is the moisture content in slurry for wet process?<br>a) 35-50% b) 12% c) 40-45% d) 100% | **1** | | **1** | 1 |
| | b. | The development of first 28 days strength is on account of the hydration of<br>a) $C_2S$ b) $C_3S$ c) $C_3A$ d) $C_4AF$ | **1** | | **1** | 1 |
| | c. | Which apparatus is generally used to measure the soundness of the cement?<br>a) Vicat Apparatus b) Le-Chatelier apparatus<br>c) Soundness meter d) Duff Abrams apparatus | **2** | | **1** | 1 |
| | d. | Which of the following option doesn't come in chemical admixtures?<br>a) Plasticizers b) Pozzolanic<br>c) Super plasticizer d) Accelerators | **3** | | **1** | 1 |

**2.Solve any two of the following each 2 marks**

2a. Enlist various types of tests done on aggregates?

Various Tests Done on Aggregates

**A. Physical Tests**

- Sieve analysis (Grading test)
- Specific gravity test
- Water absorption test
- Bulk density / Unit weight test
- Moisture content test

**B. Mechanical Strength Tests**

- Aggregate Crushing Value (ACV) test
- Aggregate Impact Value (AIV) test
- Abrasion test (Los Angeles / Deval test)

**C. Durability Tests**

- Soundness test (using sodium sulphate or magnesium sulphate)
- Freeze and thaw test

**D. Shape Tests**

- Flakiness index test
- Elongation index test
- Angularity number

2b. Classify the grading of aggregates?

Aggregates are classified based on particle size distribution as:

1. **Fine Aggregates**
    1. Particles passing 4.75 mm sieve
    2. Example: Natural sand, crushed sand
2. **Coarse Aggregates**
    1. Particles retained on 4.75 mm sieve
    2. Example: Gravel, crushed stone
3. **All-in Aggregates**
    1. Mixture of fine and coarse aggregates

Grading Zones of Fine Aggregates (as per IS 383)

1. Zone I – Coarse sand
2. Zone II – Medium sand
3. Zone III – Fine sand
4. Zone IV – Very fine sand

2c. Enlist various curing methods?

Various Curing Methods

A. **Water Curing**

1. Immersion
2. Ponding
3. Sprinkling
4. Wet covering (hessian cloth, sand)

B. **Membrane Curing**

1. Bituminous compounds
2. Plastic sheets
3. Curing compounds (liquid membrane)

C. **Steam Curing**

1. Steam curing at atmospheric pressure
2. High-pressure steam curing (autoclaving)

D. **Miscellaneous Methods**

1. Electrical curing
2. Infrared curing

**3 Solve any two of the following** **5 ×2 = 10**

**3a. Describe Cement manufacturing process with neat sketch**

Quarrying → Crushing → Raw Grinding → Preheater
↓
Rotary Kiln
↓
Clinker Formation
↓
Clinker Cooling → Cement Grinding
↓
Storage & Packing

**3b. Classify the admixture and describe their role in design mix**

**A. Chemical Admixtures**

1. Plasticizers
2. Superplasticizers
3. Accelerators
4. Retarders
5. Air-entraining agents

**B. Mineral Admixtures**

1. Fly ash
2. Silica fume
3. Ground Granulated Blast Furnace Slag (GGBS)
4. Rice husk ash

**Role of Admixtures in Design Mix**

1. Improve **workability** without increasing water content
2. Reduce **water–cement ratio**
3. Increase **strength and durability**
4. Control **setting time**
5. Reduce **heat of hydration**
6. Improve **resistance to sulphates and chemicals**
7. Make concrete economical by reducing cement content

**3c. Describe different types of concrete transportation**

Transportation of concrete prevents **segregation and loss of workability**.

**1. Manual Transportation**

1. Head pans, wheelbarrows
2. Used for small works

**2. Mortar / Concrete Buckets**

1. Lifted by cranes or hoists

2. Used in multi-storey construction

**3. Belt Conveyors**

1. Continuous transportation
2. Suitable for large construction sites

**4. Chutes**

1. Used when concrete is to be transported downward
2. Slope usually 1 vertical : 2 horizontal

**5. Dumpers and Trucks**

1. For long-distance transportation

**6. Transit Mixer**

1. Rotating drum keeps concrete mixed
2. Widely used in RMC (Ready Mix Concrete)

**7. Concrete Pumps**

1. Concrete pumped through pipelines
2. Ideal for high-rise buildings

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Pin- 416 201 (Maharashtra) Phone : 9146999500
DTE Code : EN6315
NAAC Accredited
AICTE ID : 1-8019451
AISHE Code : C-11165
O Approved By AICTE, New Delhi O Recognized by Govt. of Maharashtra, DTE, DOA
O Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
O Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.
Civil Engineering Department

Dept. of Civil Engineering

# RESULT ANALYSIS

## AY 2024-25

## CLASS: BTECH. (SEM. VIII)

| | | |
|---|---|---|
| PREPARED BY | Prof.. Momin A. M.<br>(Result Analysis Co-ordinator) | |
| CHECKED BY | Prof. MEVEKARI J.S.<br>H.O. D.<br>CIVIL ENGG. DEPARTMENT | |
| SUBMITED TO | Dr. S. N. JAIN<br>PRINCIPAL<br>SETI, Panhala | |

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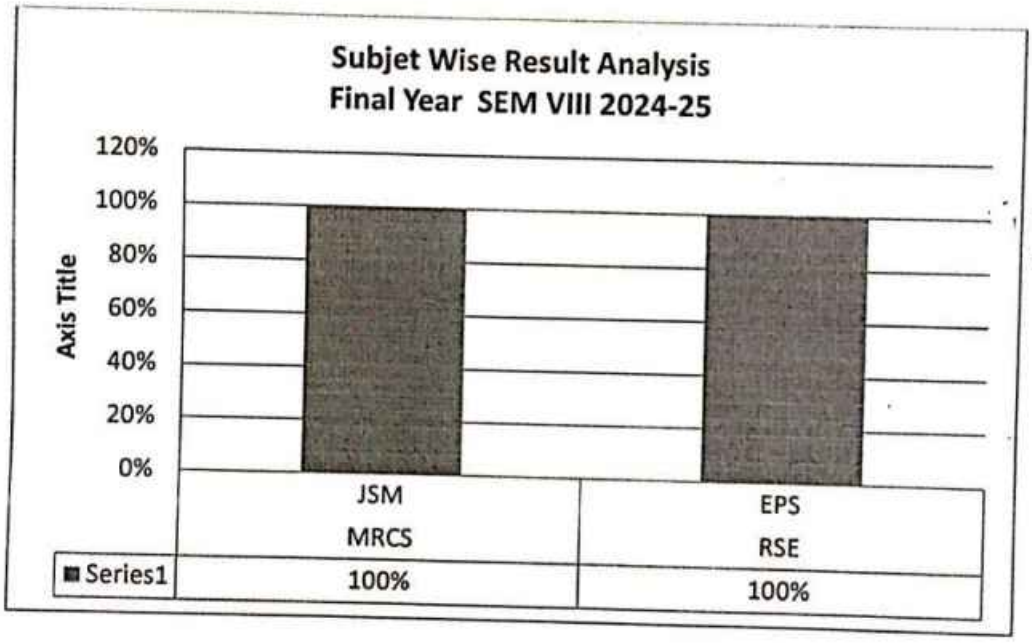
Pin- 416 201 (Maharashtra) Phone : 9146999500
DTE Code : EN6315
NAAC Accredited
AICTE ID : 1-8019451
AISHE Code : C-11165
O Approved By AICTE, New Delhi O Recognized by Govt. of Maharashtra, DTE, DOA
O Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
O Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.
Civil Engineering Department

| SUBJET | SUBJECT NAME | NAME OF TEACHING FACULTY |
|---|---|---|
| MRCS | Maintenance and Repair of Concrete Structures | Prof .J. S. MEVEKARI |
| RSE | Remote Sensing Essentials | Prof. E.P.SALOKHE |




| Subject | MRCS | RSE |
|---|---|---|
| Subject Teacher | J.S.M. | E.P.S. |
| Total Present | 29 | 29 |
| Absent | 00 | 00 |
| Pass | 29 | 29 |
| Fail | 00 | 00 |

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Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

| Enrollment No | Name | BTCVP803 - PROJECT STAGE II OR INTERNSHIP ( CA ) - Practical,Internal | BTCVP803 - PROJECT STAGE II OR INTERNSHIP ( ESE ) - Practical,External | BTCVSS801D - MAINTENANCE AND REPAIR OF CONCRETE STRUCTURES ( CA ) - Theory,Internal | BTCVSS801D - MAINTENANCE AND REPAIR OF CONCRETE STRUCTURES ( MID ) - Theory,Internal | BTCVSS801D - MAINTENANCE AND REPAIR OF CONCRETE STRUCTURES ESE Theory |
|---|---|---|---|---|---|---|
| | Out OF : | 100 | 100 | 20 | 20 | 60 |
| 2163151191001 | GANDITKAR SANDHYA APPARAO | 85 | 82 | 16 | 16 | 30 |
| 2163151191002 | GAIKWAD PRUTHVIRAJ PRATAP | 88 | 86 | 18 | 18 | 28 |
| 2163151191006 | RATHOD KIRAN VASANT | 80 | 82 | 16 | 17 | 20 |
| 2163151191009 | PATIL RUTURAJ KRISHNA | 80 | 82 | 16 | 17 | 30 |
| 2263151191501 | PATIL SUYOG TANAJI | 82 | 82 | 16 | 17 | 28 |
| 2263151191502 | KADAM SOHAM SHIVPRASAD | 78 | 80 | 14 | 15 | 30 |
| 2263151191503 | SUTAR OMKAR SHANTARAM | 80 | 85 | 14 | 15 | 26 |
| 2263151191504 | WAGARE PRATIK YUVARAJ | 80 | 80 | 16 | 17 | 34 |
| 2263151191505 | PATIL HARSHVARDHAN CHANDRAKANT | 78 | 80 | 16 | 17 | 24 |
| 2263151191506 | KORKE SHUBHAM SANJAY | 70 | 70 | 14 | 15 | 32 |
| 2263151191507 | HALADE SOURAV SACHIN | 78 | 80 | 16 | 17 | 29 |
| 2263151191508 | AVADHOOT RAVINDRA KHADE | 78 | 80 | 14 | 15 | 21 |
| 2263151191511 | MARADE ANIKET DILIP | 82 | 80 | 16 | 17 | 21 |
| 2263151191513 | RAORANE ROHAN PANDHARI | 70 | 70 | 12 | 14 | 35 |
| 2263151191514 | PATIL DHAIRYASHIL SNEHADIP | 82 | 80 | 16 | 17 | 26 |
| 2263151191516 | KAPIL SANJAY MAHADIK | 78 | 80 | 14 | 15 | 24 |
| 2263151191517 | BELVALKAR TEJAS VIJAY | 75 | 75 | 14 | 15 | 24 |
| 2263151191518 | SHINDE ANIRUDHA KUMAR | 85 | 82 | 16 | 17 | 21 |
| 2263151191519 | JADHAV KARAN VIKRAMSINH | 78 | 75 | 14 | 15 | 33 |
| 2263151191522 | POWAR SAKSHI DINKAR | 82 | 80 | 16 | 17 | 24 |
| 2263151191523 | BHONGALE AVDHUT VINOD | 78 | 80 | 14 | 15 | 25 |
| 2263151191527 | PATIL ATUL BHAGAVAN | 80 | 78 | 14 | 15 | 24 |
| 2263151191530 | LOHAR GANESH SANTOSH | 85 | 85 | 14 | 15 | 28 |
| 2263151191531 | PATIL SAIPRASAD JANARDAN | 80 | 82 | 16 | 17 | 24 |
| 2263151191532 | KAMBLE TEJAS DHANAJI | 84 | 82 | 16 | 17 | 23 |
| 2263151191534 | PATIL RITESH KRUSHNAT | 82 | 80 | 16 | 17 | 22 |
| 2263151191535 | PATIL VISHAL VIJAY | 72 | 72 | 14 | 15 | 22 |
| 2263151191536 | RAORANE SAMRUDDHI SUNIL | 72 | 72 | 14 | 15 | 22 |
| 2263151191540 | KEMBLE RAVIKANT RAGHUNATH | 80 | 80 | 14 | 15 | 31 |
| | TOTAL NUMBER OF STUDENT | 29 | | | | 29 |
| | ABSENT | | | | | 0 |
| | PASS | | | | | 29 |
| | FAIL | | | | | 0 |
| | PERCENTAGE RESULT | | | | | 100% |
| | SUBJECT TEACHER | | | | | Prof.J.S.Mevekari |

Head of Department
Civil Engineering (Degree)
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Somwar Peth - Panhala, Dist- Ko... , 416201

Dept. of Civil Engi... (Degre...

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Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

| Enrollment No | Name | BTCVSS802C - REMOTE SENSING ESSENTIALS ( CA ) - Theory,Internal | BTCVSS802C - REMOTE SENSING ESSENTIALS ( MID ) - Theory,Internal | BTCVSS802C - REMOTE SENSING ESSENTIALS ( ESE) - Theory |
|---|---|---|---|---|
| | Out OF : | 20 | 20 | 60 |
| 2163151191001 | GANDITKAR SANDHYA APPARAO | 20 | 20 | 24 |
| 2163151191002 | GAIKWAD PRUTHVIRAJ PRATAP | 16 | 17 | 28 |
| 2163151191006 | RATHOD KIRAN VASANT | 16 | 17 | 24 |
| 2163151191009 | PATIL RUTURAJ KRISHNA | 15 | 15 | 29 |
| 2263151191501 | PATIL SUYOG TANAJI | 16 | 14 | 26 |
| 2263151191502 | KADAM SOHAM SHIVPRASAD | 16 | 14 | 24 |
| 2263151191503 | SUTAR OMKAR SHANTARAM | 15 | 11 | 25 |
| 2263151191504 | WAGARE PRATIK YUVARAJ | 14 | 11 | 28 |
| 2263151191505 | PATIL HARSHVARDHAN CHANDRAKANT | 15 | 16 | 26 |
| 2263151191506 | KORKE SHUBHAM SANJAY | 14 | 12 | 26 |
| 2263151191507 | HALADE SOURAV SACHIN | 14 | 14 | 30 |
| 2263151191508 | AVADHOOT RAVINDRA KHADE | 18 | 11 | 24 |
| 2263151191511 | MARADE ANIKET DILIP | 18 | 13 | 26 |
| 2263151191513 | RAORANE ROHAN PANDHARI | 15 | 11 | 29 |
| 2263151191514 | PATIL DHAIRYASHIL SNEHADIP | 17 | 16 | 24 |
| 2263151191516 | KAPIL SANJAY MAHADIK | 15 | 15 | 26 |
| 2263151191517 | BELVALKAR TEJAS VIJAY | 15 | 11 | 26 |
| 2263151191518 | SHINDE ANIRUDHA KUMAR | 17 | 17 | 26 |
| 2263151191519 | JADHAV KARAN VIKRAMSINH | 16 | 13 | 29 |
| 2263151191522 | POWAR SAKSHI DINKAR | 17 | 15 | 28 |
| 2263151191523 | BHONGALE AVDHUT VINOD | 15 | 11 | 24 |
| 2263151191527 | PATIL ATUL BHAGAVAN | 17 | 14 | 24 |
| 2263151191530 | LOHAR GANESH SANTOSH | 16 | 16 | 27 |
| 2263151191531 | PATIL SAIPRASAD JANARDAN | 17 | 17 | 26 |
| 2263151191532 | KAMBLE TEJAS DHANAJI | 16 | 15 | 26 |
| 2263151191534 | PATIL RITESH KRUSHNAT | 17 | 15 | 28 |
| 2263151191535 | PATIL VISHAL VIJAY | 17 | 15 | 24 |
| 2263151191536 | RAORANE SAMRUDDHI SUNIL | 16 | 15 | 26 |
| 2263151191540 | KEMBLE RAVIKANT RAGHUNATH | 16 | 15 | 24 |
| | TOTAL NUMBER OF STUDENT | | | 29 |
| | ABSENT | | | 0 |
| | PASS | | | 29 |
| | FAIL | | | 0 |
| | PERCENTAGE RESULT | | | 100% |
| | SUBJECT TEACHER | | | Prof.E.P.Salokhe |

Dept. of Civil Engineering (Degree)

Head of Department
Civil Engineering (Degree)
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Somwarpeth - Panhala, Dist- Kolhapur - 416201

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Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

SANJEEVAN GROUP OF INSTITUTIONS Dept. of Civil Engineering (Degree) PANHALA

# RESULT ANALYSIS

## AY 2024-25

## CLASS: T.Y.BTECH. (SEM. VI)

| | | |
|---|---|---|
| PREPARED BY | Prof.. Momin A. M.<br>(Result Analysis Co-ordinator) | Momin |
| CHECKED BY | Prof. MEVEKARI J.S.<br>H.O. D.<br>CIVIL ENGG. DEPARTMENT | |
| SUBMITED TO | Dr. S. N. JAIN<br>PRINCIPAL<br>SETI, Panhala | |

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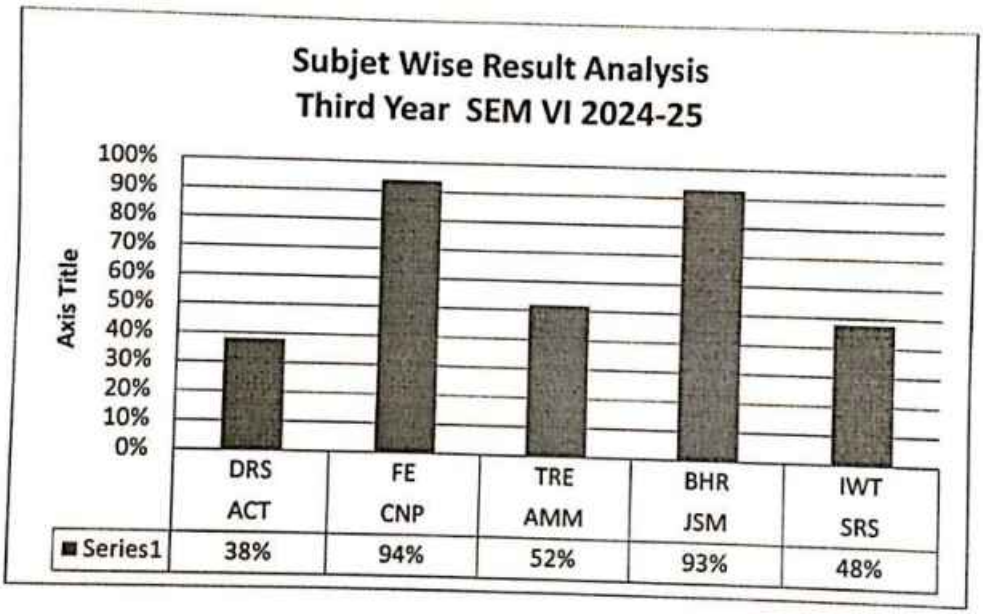
NAAC Accredited
AICTE ID : 1-8018451
AISHE Code : C-11165
O Approved By AICTE, New Delhi O Recognized by Govt. of Maharashtra
O Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
O Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.

DTE Code : EN6315

Dept. of Civil Engineering (Degree)

Civil Engineering Department

| SUBJET | SUBJECT NAME | NAME OF TEACHING FACULTY |
|---|---|---|
| DRCS | Design of RC Structures | Prof. A.C.THOKE |
| FE | Foundation Engineering | Prof .C.N.PATILI |
| TRE | Transportation Engineering | Prof.A.M.MOMIN |
| IWT | Industrial Waste Treatment | Prof.S.R.SALOKHE |
| BHR | Basic Human Rights | Prof. J. S. MEVEKARI |




| Subject | DRCS | FE | TRE | IWT | BHR |
|---|---|---|---|---|---|
| Subject Teacher | A.C.T. | C.N.P | A.M.M. | S.R.S | J.S.M. |
| Total Present | 34 | 34 | 34 | 31 | 32 |
| Absent | 0 | 0 | 0 | 03 | 02 |
| Pass | 13 | 32 | 18 | 15 | 30 |
| Fail | 21 | 02 | 16 | 16 | 02 |

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(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

| Enrollment No | Name | BTCVC601 - DESIGN OF RC STRUCTURES ( CA ) - Theory,Internal | BTCVC601 - DESIGN OF RC STRUCTURES ( MID ) - Theory,Internal | BTCVC601 - DESIGN OF RC STRUCTURES ( ESE) - Theory | BTCVC602 - FOUNDATION ENGINEERING ( CA ) - Theory,Internal | BTCVC602 - FOUNDATION ENGINEERING ( MID ) - Theory,Internal | BTCVC602 - FOUNDATION ENGINEERING ( ESE ) - Theory |
|---|---|---|---|---|---|---|---|
| | Out Of : | 20 | 20 | 60 | 20 | 20 | 60 |
| 2263151191001 | PATIL SAHIL ARUN | 18 | 14 | 8 | 16 | 18 | 22 |
| 2263151191002 | BHOIR DIPESH ANANTA | 18 | 14 | 9 | 17 | 15 | 20 |
| 2263151191003 | KADAM SAMARTH PRAVINKUMAR | 16 | 12 | 20 | 17 | 11 | 23 |
| 2263151191005 | KARANDE PRACHI SANJAY | 18 | 14 | 21 | 16 | 18 | 27 |
| 2263151191006 | DINDE SAMARTH JANARDAN | 15 | 11 | 13 | 15 | 11 | 23 |
| 2263151191007 | PATIL MAYUR DEEPAK | 15 | 11 | 9 | 15 | 12 | 30 |
| 2263151191008 | VYANKATESH MANOHAR PATIL | 15 | 11 | 9 | 15 | 18 | 24 |
| 2263151191509 | SATHE BHARAT DINKAR | 18 | 14 | 20 | 17 | 13 | 35 |
| 23063151191501 | LOKHANDE ASHISH ANANDA | 17 | 13 | 20 | 16 | 11 | 33 |
| 23063151191502 | POWAR SAMRAT ASHOK | 15 | 13 | 11 | 15 | 13 | 24 |
| 23063151191504 | JADHAV SIDDHANT RAVINDRA | 13 | 11 | 9 | 15 | 9 | 27 |
| 23063151191505 | PATIL SUSHANT ABASAHEB | 15 | 13 | 9 | 15 | 13 | 29 |
| 23063151191506 | ADULKAR SHANTANU SANTOSH | 13 | 11 | 9 | 15 | 9 | 22 |
| 23063151191508 | KAMBLE TUSHAR DAGADU | 13 | 12 | 13 | 15 | 11 | 24 |
| 23063151191509 | MANGORE PRATHMESH RAVINDRA | 14 | 12 | 23 | 16 | 17 | 23 |
| 23063151191510 | BHOGULKAR VAIBHAV GUNDUPANT | 13 | 11 | 9 | 17 | 11 | 22 |
| 23063151191514 | PATIL VIRENDRA BHIMRAO | 14 | 12 | 20 | 16 | 11 | 22 |
| 23063151191515 | PATIL YUGANDHRA SHRIKANT | 14 | 12 | 22 | 15 | 12 | 31 |
| 23063151191518 | KUMBHAR RUSHIKESH CHANDRAKANT | 14 | 12 | 10 | 16 | 13 | 24 |
| 23063151191520 | KAMATE SHRIDHAR BABASAHEB | 16 | 12 | 8 | 17 | 10 | 20 |
| 23063151191521 | THORAVAT KUMBHAR OMKAR RAJARAM | 16 | 12 | 10 | 17 | 10 | 22 |
| 23063151191524 | KAMBLE SHUBHAM BAJIRAO | 16 | 11 | 12 | 15 | 12 | 20 |
| 23063151191525 | PATIL SAURABH KRISHNAT | 13 | 11 | 9 | 15 | 9 | 29 |
| 23063151191526 | SHINDE VIJAY GULSHAN | 14 | 12 | 14 | 17 | 11 | 15 |
| 23063151191528 | KADAM SANKET ARUN | 15 | 12 | 10 | 18 | 8 | 18 |
| 23063151191529 | DHUMALE SURAJ BHIKAJI | 18 | 12 | 21 | 18 | 12 | 21 |
| 23063151191530 | PATIL AJAY DILIP | 18 | 11 | 20 | 17 | 11 | 36 |
| 23063151191531 | TARALEKAR VIKAS RAMCHANDRA | 18 | 13 | 20 | 17 | 12 | 20 |
| 23063151191532 | PALANGE SANIKA RAMESH | 16 | 12 | 20 | 17 | 10 | 21 |
| 23063151191533 | SHINDE PRATIK RAJARAM | 17 | 11 | 26 | 17 | 10 | 27 |
| 23063151191534 | SUTAR SANDEEP SADASHIV | 16 | 11 | 11 | 17 | 11 | 20 |
| 23063151191535 | KOLI DIGAMBAR BALASO | 17 | 11 | 9 | 13 | 14 | 22 |
| 23063151191536 | KAMBLE RAKESH VINOD | 13 | 11 | 20 | 18 | 10 | 20 |
| 23063151191537 | LALE TEJAS BABURAO | 15 | 11 | 12 | 17 | 12 | 22 |
| | TOTAL NUMBER OF STUDENT | | | 34 | | | 34 |
| | ABSENT | | | 0 | | | 0 |
| | PASS | | | 13 | | | 32 |
| | FAIL | | | 21 | | | 2 |
| | PERCENTAGE RESULT | | | 38% | | | 94% |
| | SUBJECT TEACHER | | | Prof.A.C.Thake | | | Prof.C.N.Patil |

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur , 416201

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

| Enrollment No | Name | BTCVC603 - TRANSPORTATION ENGINEERING ( CA ) - Theory,Internal | BTCVC603 - TRANSPORTATION ENGINEERING ( MID ) - Theory,Internal | BTCVC603 - TRANSPORTATION ENGINEERING ( ESE ) - Theory | BTCVL607 - SOD OF RC STRUCTURES LAB. ( CA ) - Practical,Internal | BTCVL607 - SOD OF RC STRUCTURES LAB. ( ESE ) - Practical,External | BTCVL608 - TRANSPORTATION ENGINEERING LAB ( CA ) - Practical,Internal |
|---|---|---|---|---|---|---|---|
| | Out Of : | 20 | 20 | 60 | 20 | 30 | 20 |
| 2263151191001 | PATIL SAHIL ARUN | 18 | 14 | 23 | 17 | 25 | 16 |
| 2263151191002 | BHOIR DIPESH ANANTA | 18 | 14 | 23 | 17 | 25 | 17 |
| 2263151191003 | KADAM SAMARTH PRAVINKUMAR | 15 | 13 | 3 | 16 | 22 | 15 |
| 2263151191005 | KARANDE PRACHI SANJAY | 18 | 12 | 33 | 17 | 25 | 17 |
| 2263151191006 | DINDE SAMARTH JANARDAN | 12 | 14 | 28 | 14 | 22 | 15 |
| 2263151191007 | PATIL MAYUR DEEPAK | 12 | 15 | 23 | 14 | 22 | 14 |
| 2263151191008 | VYANKATESH MANOHAR PATIL | 14 | 12 | 4 | 14 | 22 | 14 |
| 2263151191509 | SATHE BHARAT DINKAR | 19 | 13 | 34 | 17 | 25 | 17 |
| 23063151191501 | LOKHANDE ASHISH ANANDA | 18 | 12 | 28 | 13 | 23 | 15 |
| 23063151191502 | POWAR SAMRAT ASHOK | 13 | 15 | 21 | 14 | 22 | 15 |
| 23063151191504 | JADHAV SIDDHANT RAVINDRA | 12 | 12 | 12 | 11 | 20 | 11 |
| 23063151191505 | PATIL SUSHANT ABASAHEB | 18 | 10 | 11 | 15 | 23 | 15 |
| 23063151191506 | ADULKAR SHANTANU SANTOSH | 18 | 8 | 4 | 14 | 20 | 15 |
| 23063151191508 | KAMBLE TUSHAR DAGADU | 16 | 12 | 7 | 14 | 22 | 16 |
| 23063151191509 | MANGORE PRATHMESH RAVINDRA | 17 | 15 | 28 | 15 | 23 | 15 |
| 23063151191510 | BHOGULKAR VAIBHAV GUNDUPANT | 17 | 8 | 5 | 14 | 21 | 15 |
| 23063151191514 | PATIL VIRENDRA BHIMRAO | 17 | 8 | 26 | 17 | 25 | 17 |
| 23063151191515 | PATIL YUGANDHRA SHRIKANT | 18 | 8 | 15 | 15 | 23 | 16 |
| 23063151191518 | KUMBHAR RUSHIKESH CHANDRAKANT | 17 | 13 | 20 | 15 | 23 | 15 |
| 23063151191520 | KAMATE SHRIDHAR BABASAHEB | 18 | 11 | 4 | 15 | 23 | 15 |
| 23063151191521 | THORAVAT KUMBHAR OMKAR RAJARAM | 18 | 12 | 10 | 15 | 23 | 16 |
| 23063151191524 | KAMBLE SHUBHAM BAJIRAO | 18 | 8 | 29 | 15 | 21 | 17 |
| 23063151191525 | PATIL SAURABH KRISHNAT | 18 | 8 | 3 | 11 | 20 | 16 |
| 23063151191526 | SHINDE VIJAY GULSHAN | 18 | 8 | 12 | 15 | 21 | 17 |
| 23063151191528 | KADAM SANKET ARUN | 18 | 13 | 8 | 15 | 23 | 16 |
| 23063151191529 | DHUMALE SURAJ BHIKAJI | 18 | 8 | 28 | 17 | 25 | 17 |
| 23063151191530 | PATIL AJAY DILIP | 18 | 8 | 30 | 16 | 24 | 17 |
| 23063151191531 | TARALEKAR VIKAS RAMCHANDRA | 18 | 8 | 21 | 17 | 25 | 17 |
| 23063151191532 | PALANGE SANIKA RAMESH | 18 | 8 | 28 | 15 | 23 | 15 |
| 23063151191533 | SHINDE PRATIK RAJARAM | 18 | 9 | 10 | 15 | 23 | 17 |
| 23063151191534 | SUTAR SANDEEP SADASHIV | 18 | 8 | 10 | 15 | 23 | 14 |
| 23063151191535 | KOLI DIGAMBAR BALASO | 18 | 8 | 8 | 15 | 23 | 13 |
| 23063151191536 | KAMBLE RAKESH VINOD | 18 | 8 | 24 | 11 | 20 | 11 |
| 23063151191537 | LALE TEJAS BABURAO | 18 | 8 | 23 | 15 | 23 | 16 |
| | TOTAL NUMBER OF STUDENT | | | 34 | | | |
| | ABSENT | | | 0 | | | |
| | PASS | | | 18 | | | |
| | FAIL | | | 16 | | | |
| | PERCENTAGE RESULT | | | 52% | | | |
| | SUBJECT TEACHER | | | Prof. A. M. Mantale | | | |

Dept. of Civil Enginee (Degr

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur , 416201

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

| Enrollment No | Name | BTCVL608 - TRANSPORTATION ENGINEERING LAB ( ESE ) - Practical,External | BTCVM609 - MINI PROJECT ( CA ) - Practical,Internal | BTCVM609 - MINI PROJECT ( ESE ) - Practical,External | BTCVOE6058 - BASIC HUMAN RIGHTS ( CA ) - Theory,Internal | BTCVOE6058 - BASIC HUMAN RIGHTS ( MID ) - Theory,Internal | BTCVOE6058 - BASIC HUMAN RIGHTS ( ESE ) - Theory |
|---|---|---|---|---|---|---|---|
| | Out Of | 30 | 20 | 30 | 20 | 20 | 60 |
| 22631511191001 | PATIL SAHIL ARUN | 26 | 18 | 24 | 18 | 14 | 24 |
| 22631511191002 | BHOIR DIPESH ANANTA | 25 | 18 | 24 | 18 | 14 | 22 |
| 22631511191003 | KADAM SAMARTH PRAVINKUMAR | 20 | 17 | 23 | 16 | 12 | 30 |
| 22631511191005 | KARANDE PRADHI SANJAY | 25 | 17 | 25 | 18 | 14 | 33 |
| 22631511191006 | DINDE SAMARTH JANARDAN | 20 | 17 | 21 | 15 | 11 | 24 |
| 22631511191007 | PATIL MAYUR DEEPAK | 21 | 16 | 22 | 15 | 11 | 7 |
| 22631511191008 | VYANKATESH MANOHAR PATIL | 22 | 16 | 22 | 15 | 11 | 23 |
| 22631511191509 | SATHE BHARAT DINKAR | 25 | 18 | 24 | 18 | 14 | 31 |
| 23063151191501 | LOKHANDE ASHISH ANANDA | 23 | 18 | 23 | 17 | 13 | 26 |
| 23063151191502 | POWAR SAMRAT ASHOK | 20 | 16 | 22 | 15 | 13 | 30 |
| 23063151191504 | JADHAV SIDDHANT RAVINDRA | 18 | 16 | 22 | 13 | 11 | 25 |
| 23063151191505 | PATIL SUSHANT ABASAHEB | 23 | 17 | 25 | 15 | 13 | 19 |
| 23063151191506 | ADULKAR SHANTANU SANTOSH | 20 | 15 | 22 | 13 | 11 | 24 |
| 23063151191508 | KAMBLE TUSHAR DAGADU | 19 | 18 | 20 | 13 | 12 | 22 |
| 23063151191509 | MANGORE PRATHMESH RAVINDRA | 22 | 17 | 23 | 14 | 12 | 34 |
| 23063151191510 | BHOGULKAR VAIBHAV GUNDUPANT | 19 | 17 | 21 | 13 | 11 | 21 |
| 23063151191514 | PATIL VIRENDRA BHIMRAO | 25 | 17 | 25 | 14 | 12 | 26 |
| 23063151191515 | PATIL YUGANDHRA SHRIKANT | 20 | 16 | 22 | 14 | 12 | |
| 23063151191518 | KUMBHAR RUSHIKESH CHANDRAKANT | 23 | 17 | 23 | 14 | 12 | 27 |
| 23063151191520 | KAMATE SHRIDHAR BABASAHEB | 23 | 17 | 23 | 16 | 12 | 24 |
| 23063151191521 | THORAVAT KUMBHAR OMKAR RAJARAM | 19 | 17 | 22 | 16 | 12 | 21 |
| 23063151191524 | KAMBLE SHUBHAM BAJIRAO | 21 | 17 | 22 | 16 | 11 | 25 |
| 23063151191525 | PATIL SAURABH KRISHNAT | 19 | 18 | 19 | 13 | 11 | 26 |
| 23063151191526 | SHINDE VIJAY GULSHAN | 21 | 18 | 21 | 14 | 12 | 26 |
| 23063151191528 | KADAM SANKET ARUN | 20 | 16 | 24 | 15 | 12 | 22 |
| 23063151191529 | DHUMALE SURAJ BHIKAJI | 23 | 17 | 24 | 18 | 12 | 34 |
| 23063151191530 | PATIL AJAY DILIP | 23 | 17 | 23 | 18 | 11 | 29 |
| 23063151191531 | TARALEKAR VIKAS RAMCHANDRA | 25 | 17 | 25 | 18 | 13 | 22 |
| 23063151191532 | PALANDE SANIKA RAMESH | 20 | 16 | 24 | 16 | 12 | 22 |
| 23063151191533 | SHINDE PRATIK RAJARAM | 22 | 17 | 22 | 17 | 11 | |
| 23063151191534 | SUTAR SANDEEP SADASHIV | 21 | 16 | 23 | 16 | 11 | 22 |
| 23063151191535 | KOLI DIGAMBAR BALASO | 20 | 14 | 21 | 17 | 11 | 22 |
| 23063151191536 | KAMBLE RAKESH VINOD | 18 | 14 | 20 | 13 | 11 | 22 |
| 23063151191537 | LALE TEJAS BABURAO | 21 | 18 | 22 | 15 | 11 | 24 |
| | TOTAL NUMBER OF STUDENT | | | | | | 32 |
| | ABSENT | | | | | | 2 |
| | PASS | | | | | | 30 |
| | FAIL | | | | | | 2 |
| | PERCENTAGE RESULT | | | | | | 93% |
| | SUBJECT TEACHER | | | | | | Pref. |

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur , 416201

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,

| Enrollment No | Name | BTCVPE604A - INDUSTRIAL WASTE TREATMENT ( CA ) - Theory,Internal | BTCVPE604A - INDUSTRIAL WASTE TREATMENT ( MID ) - Theory,Internal | BTCVPE604A - INDUSTRIAL WASTE TREATMENT ( ESE) - Theory | BTHM606 - INDIAN CONSTITUTION ( CA ) - Theory,Internal | |
|---|---|---|---|---|---|---|
| | Out Of | 20 | 20 | 60 | 50 | Remark |
| 2263151191001 | PATIL SAHIL ARUN | 17 | 13 | 23 | 46 | Fail |
| 2263151191002 | BHOIR DIPESH ANANTA | 18 | 14 | 22 | 46 | Fail |
| 2263151191003 | KADAM SAMARTH PRAVINKUMAR | 16 | 12 | 5 | 42 | Fail |
| 2263151191005 | KARANDE PRACHI SANJAY | 18 | 14 | 32 | 46 | Pass |
| 2263151191006 | DINDE SAMARTH JANARDAN | 15 | 12 | 9 | 36 | Fail |
| 2263151191007 | PATIL MAYUR DEEPAK | 15 | 11 | 4 | 38 | Fail |
| 2263151191008 | VYANKATESH MANOHAR PATIL | 15 | 10 | 10 | 38 | Fail |
| 2263151191509 | SATHE BHARAT DINKAR | 18 | 13 | 29 | 42 | Pass |
| 23063151191501 | LOKHANDE ASHISH ANANDA | 17 | 13 | 23 | 40 | Pass |
| 23063151191502 | POWAR SAMRAT ASHOK | 15 | 14 | 25 | 39 | Fail |
| 23063151191504 | JADHAV SIDDHANT RAVINDRA | 13 | 12 | 10 | 32 | Fail |
| 23063151191505 | PATIL SUSHANT ABASAHEB | 15 | 12 | 2 | 35 | Fail |
| 23063151191506 | ADULKAR SHANTANU SANTOSH | 13 | 12 | 6 | 35 | Fail |
| 23063151191508 | KAMBLE TUSHAR DAGADU | 13 | 13 | 7 | 40 | Fail |
| 23063151191509 | MANGORE PRATHMESH RAVINDRA | 14 | 12 | 27 | 40 | Pass |
| 23063151191510 | BHOGULKAR VAIBHAV GUNDUPANT | 13 | 12 | 20 | 35 | Fail |
| 23063151191514 | PATIL VIRENDRA BHIMRAO | 14 | 13 | 22 | 38 | Pass |
| 23063151191515 | PATIL YUGANDHRA SHRIKANT | 14 | 13 | | 38 | Withheld |
| 23063151191518 | KUMBHAR RUSHIKESH CHANDRAKANT | 14 | 11 | 26 | 42 | Fail |
| 23063151191520 | KAMATE SHRIDHAR BABASAHEB | 16 | 11 | 4 | 40 | Fail |
| 23063151191521 | THORAVAT KUMBHAR OMKAR RAJARAM | 16 | 12 | 7 | 40 | Fail |
| 23063151191524 | KAMBLE SHUBHAM BAJIRAO | 16 | 11 | 9 | 35 | Fail |
| 23063151191525 | PATIL SAURABH KRISHNAT | 13 | 12 | 9 | 35 | Fail |
| 23063151191526 | SHINDE VIJAY GULSHAN | 14 | 12 | 6 | 35 | Fail |
| 23063151191528 | KADAM SANKET ARUN | 15 | 13 | 9 | 42 | Fail |
| 23063151191529 | DHUMALE SURAJ BHIKAJI | 16 | 13 | 26 | 44 | Pass |
| 23063151191530 | PATIL AJAY DILIP | 17 | 13 | 28 | 38 | Pass |
| 23063151191531 | TARALEKAR VIKAS RAMCHANDRA | 17 | 14 | 21 | 40 | Pass |
| 23063151191532 | PALANGE SANIKA RAMESH | 16 | 12 | 22 | 38 | Pass |
| 23063151191533 | SHINDE PRATIK RAJARAM | 17 | 11 | | 39 | Withheld |
| 23063151191534 | SUTAR SANDEEP SADASHIV | 16 | 11 | 20 | 40 | Fail |
| 23063151191535 | KOLI DIGAMBAR BALASO | 11 | 11 | | 35 | Withheld |
| 23063151191536 | KAMBLE RAKESH VINOD | 13 | 11 | 6 | 35 | Fail |
| 23063151191537 | LALE TEJAS BABURAO | 14 | 11 | 24 | 38 | Fail |
| | TOTAL NUMBER OF STUDENT | | | 31 | | |
| | ABSENT | | | 3 | | |
| | PASS | | | 15 | | |
| | FAIL | | | 16 | | |
| | PERCENTAGE RESULT | | | 48.00 | | |
| | SUBJECT TEACHER | | | Prof.S.R.Salokhe | | |

Dept. of Civil Engineering (Degree)
SANJEEVAN GROUP OF INSTITUTES
PANHALA

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur , 416201

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

HOLY-WOOD ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur.
Pin- 416 201 (Maharashtra) Phone : 9146999500
DTE Code : EN6315
NAAC Accredited
AICTE ID : 1-8019451
AISHE Code : C-11165
O Approved By AICTE, New Delhi O Recognized by Govt. of Maharashtra, DTE, DOA
O Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
O Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.
Civil Engineering Department

# RESULT ANALYSIS

Dept. of Civil Engineering (Degree) SANJEEVAN GROUP OF INSTITUTIONS PANHALA

## AY 2024-25

## CLASS: S.Y.BTECH. (SEM. IV)

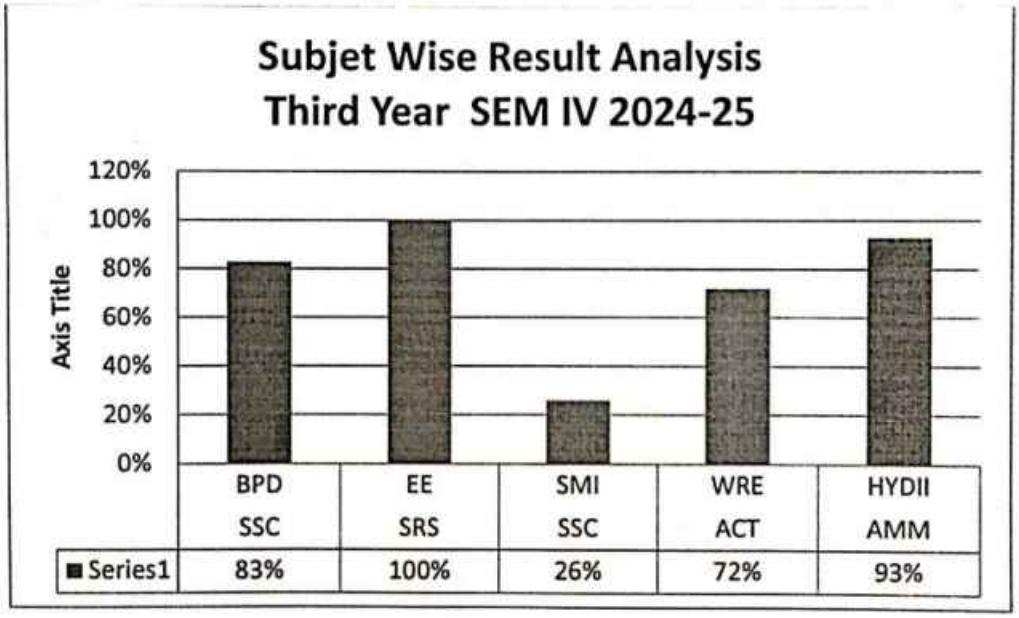
| | | |
|---|---|---|
| PREPARED BY | Prof.. Momin A. M.<br>(Result Analysis Co-ordinator) | |
| CHECKED BY | Prof. MEVEKARI J.S.<br>H.O. D.<br>CIVIL ENGG. DEPARTMENT | |
| SUBMITED TO | Dr. S. N. JAIN<br>PRINCIPAL<br>SETI, Panhala | |

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

HOLY-WOOD ACADEMY'S
# SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur.
Pin- 416 201 (Maharashtra) Phone : 9146999500
O Approved By AICTE, New Delhi O Recognized by Govt. of Maharashtra, DTE, DOA
O Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
O Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.
DTE Code : EN6315
NAAC Accredited
AICTE ID : 1-8019451
AISHE Code : C-11165

## Civil Engineering Department

| SUBJET | SUBJECT NAME | NAME OF TEACHING FACULTY |
|---|---|---|
| BPD | Building planning drawing | Prof.S.S.CHAVAN |
| EE | Environmental ENGINEERING | Prof.S.R.SALOKHE |
| SM I | Structural Mechanics I | Prof.S.S.CHAVAN |
| WRE | Water resource engineering | Prof.A.C.THOKE |
| HYD II | Hydraulics II | Prof.A.M.MOMIN |
| EG | Engineering Geology | Prof.C.N.PATIL |




| Subject | BPD | EE | SM I | WRE | HYD II | EG |
|---|---|---|---|---|---|---|
| Subject Teacher | S.S.C. | S.R.S. | S.S.C. | A.C.T. | A.M.M. | C.N.P. |
| Total Present | 30 | 30 | 30 | 29 | 30 | 29 |
| Absent | 00 | 00 | 00 | 01 | 00 | 01 |
| Pass | 25 | 30 | 8 | 21 | 28 | 23 |
| Fail | 05 | 00 | 22 | 08 | 2 | 6 |

Head of Department
Civil Engineering (Degree)
Sanjeevan Group Of Institutions
Panhala

Dept. of Civil Engineering (Degree)

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

| Enrollment No | Name | BTCVC401 - BUILDING PLANNING AND DRAWING ( CA ) - Theory,Internal | BTCVC401 - BUILDING PLANNING AND DRAWING ( MID ) - Theory,Internal | BTCVC401 - BUILDING PLANNING AND DRAWING ( ESE ) - Theory | BTCVC402 - ENVIRONMENTAL ENGINEERING ( CA ) - Theory,Internal | BTCVC402 - ENVIRONMENTAL ENGINEERING ( MID ) - Theory,Internal | BTCVC402 - ENVIRONMENTAL ENGINEERING ( ESE) - Theory |
|---|---|---|---|---|---|---|---|
| | Out Of : | 20 | 20 | 60 | 20 | 20 | 60 |
| 23063151191001 | SHELAR GHANASHYAM ANKUSH | 18 | 12 | 26 | 18 | 14 | 24 |
| 23063151191002 | SHINDE ROHIT RAJARAM | 18 | 12 | 25 | 18 | 13 | 32 |
| 23063151191003 | CHARANKAR BHUSHAN AJAYKUMAR | 18 | 14 | 25 | 18 | 12 | 23 |
| 23063151191004 | CHOUGALE RAJVARDHAN BHIKAJI | 18 | 14 | 23 | 18 | 14 | 28 |
| 23063151191005 | NAKADI SHASHIKANT CHANDRAKANT | 18 | 12 | 28 | 18 | 12 | 31 |
| 24063151191503 | MAYUR SHIVAJI BHOSALE | 17 | 15 | 32 | 17 | 13 | 33 |
| 24063151191505 | CHAVAN VISHAL HINDURAO | 15 | 13 | 22 | 12 | 11 | 23 |
| 24063151191507 | GAYATRI SAVAKAR CHOUGULE | 18 | 15 | 39 | 18 | 14 | 35 |
| 24063151191514 | PAYAL PANDURANG JAGADALE | 17 | 13 | 13 | 17 | 11 | 25 |
| 24063151191515 | SAKSHI PRATAP MOHITE | 17 | 13 | 31 | 17 | 11 | 33 |
| 24063151191516 | TUSHAR MAHADEV MOHITE | 18 | 14 | 23 | 18 | 11 | 33 |
| 24063151191522 | SAMARTH SANDEEP PATIL | 15 | 12 | 32 | 14 | 11 | 31 |
| 24063151191524 | SHREESH UTTAM PATIL | 18 | 14 | 24 | 17 | 13 | 28 |
| 24063151191526 | SHUBHAM NANA PATIL | 18 | 12 | 29 | 16 | 11 | 21 |
| 24063151191528 | MONIKA PRAMOD WAIKAR | 15 | 13 | 26 | 15 | 11 | 37 |
| 24063151191501 | SATYAJIT VIJAY BHANDARI | 15 | 13 | 31 | 17 | 11 | 23 |
| 24063151191502 | SANIKA BAJIRAO BHOITE | 14 | 13 | 8 | 11 | 11 | 33 |
| 24063151191504 | PAYAL BAJIRAO BHOYATE | 14 | 14 | 23 | 11 | 11 | 42 |
| 24063151191509 | SHUBHAM UDAY DHAWALE | 15 | 13 | 13 | 12 | 11 | 23 |
| 24063151191511 | ABHUYDAY KAKASO GURAV | 15 | 12 | 14 | 12 | 11 | 24 |
| 24063151191512 | JADHAV KRISHNARAJ ARVIND | 17 | 12 | 24 | 17 | 11 | 25 |
| 24063151191513 | PRATHAMESH BANDERAO JADHAV | 17 | 13 | 32 | 17 | 11 | 28 |
| 24063151191517 | SARTH ANIL NALAWADE | 14 | 13 | 22 | 12 | 11 | 24 |
| 24063151191518 | PRATHAMESH DATTATRAY NAVALE | 16 | 14 | 20 | 16 | 12 | 36 |
| 24063151191519 | SUMIT SUBHASH NIKAM | 14 | 13 | 7 | 13 | 12 | 21 |
| 24063151191520 | AJAY VITTHAL PATIL | 16 | 13 | 23 | 15 | 12 | 34 |
| 24063151191521 | RASIKA SAGAR PATIL | 17 | 12 | 31 | 11 | 11 | 38 |
| 24063151191523 | SANIKA SAGAR PATIL | 15 | 13 | 32 | 12 | 12 | 28 |
| 24063151191527 | PRATHAMESH PUNDLIK SHINDE | 18 | 13 | 25 | 18 | 11 | 30 |
| 24063151191529 | WAIKAR PRAJAKTA PRAMOD | 15 | 13 | 22 | 11 | 11 | 37 |
| | TOTAL NUMBER OF STUDENT | | | 30 | | | 30 |
| | ABSENT | | | 0 | | | 0 |
| | PASS | | | 25 | | | 30 |
| | FAIL | | | 5 | | | 0 |
| | PERCENTAGE RESULT | | | 83% | | | 100% |
| | SUBJECT TEACHER | | | Prof.S.S.Chavan | | | Prof.S.R.Salokhe |

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur , 416201

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

| Enrollment No | Name | BTCVC403 - STRUCTURAL MECHANICS - I ( CA ) - Theory,Internal | BTCVC403 - STRUCTURAL MECHANICS - I ( MID ) - Theory,Internal | BTCVC403 - STRUCTURAL MECHANICS - I ( ESE ) - Theory | BTCVC404 - WATER RESOURCES ENGINEERING ( CA ) - Theory,Internal | BTCVC404 - WATER RESOURCES ENGINEERING ( MID ) - Theory,Internal |
|---|---|---|---|---|---|---|
| | Out OF : | 20 | 20 | 60 | 20 | 20 |
| 23063151191001 | SHELAR GHANASHYAM ANKUSH | 18 | 13 | 3 | 18 | 10 |
| 23063151191002 | SHINDE ROHIT RAJARAM | 18 | 14 | 4 | 18 | 10 |
| 23063151191003 | CHARANKAR BHUSHAN AJAYKUMAR | 18 | 14 | 4 | 18 | 12 |
| 23063151191004 | CHOUGALE RAJVARDHAN BHIKAJI | 18 | 14 | Zoo | 18 | 12 |
| 23063151191005 | NAKADI SHASHIKANT CHANDRAKANT | 18 | 12 | 4 | 18 | 10 |
| 24063151191503 | MAYUR SHIVAJI BHOSALE | 17 | 14 | 25 | 17 | 13 |
| 24063151191505 | CHAVAN VISHAL HINDURAO | 15 | 13 | 9 | 15 | 11 |
| 24063151191507 | GAYATRI SAVAKAR CHOUGULE | 18 | 13 | 37 | 18 | 14 |
| 24063151191514 | PAYAL PANDURANG JAGADALE | 17 | 12 | 7 | 17 | 11 |
| 24063151191515 | SAKSHI PRATAP MOHITE | 17 | 12 | 20 | 17 | 11 |
| 24063151191516 | TUSHAR MAHADEV MOHITE | 18 | 12 | 13 | 18 | 12 |
| 24063151191522 | SAMARTH SANDEEP PATIL | 15 | 12 | 13 | 15 | 10 |
| 24063151191524 | SHREESH UTTAM PATIL | 18 | 11 | 10 | 18 | 12 |
| 24063151191526 | SHUBHAM NANA PATIL | 18 | 12 | 9 | 18 | 10 |
| 24063151191528 | MONIKA PRAMOD WAIKAR | 17 | 13 | 20 | 15 | 11 |
| 24063151191501 | SATYAJIT VIJAY BHANDARI | 16 | 14 | 6 | 15 | 11 |
| 24063151191502 | SANIKA BAJIRAO BHOITE | 14 | 12 | 5 | 15 | 11 |
| 24063151191504 | PAYAL BAJIRAO BHOYATE | 14 | 12 | 24 | 14 | 11 |
| 24063151191509 | SHUBHAM UDAY DHAWALE | 15 | 12 | 3 | 14 | 12 |
| 24063151191511 | ABHUYDAY KAKASO GURAV | 15 | 12 | 4 | 15 | 11 |
| 24063151191512 | JADHAV KRISHNARAJ ARVIND | 17 | 12 | 2 | 15 | 10 |
| 24063151191513 | PRATHAMESH BANDERAO JADHAV | 17 | 13 | 9 | 17 | 10 |
| 24063151191517 | SARTH ANIL NALAWADE | 14 | 12 | 7 | 17 | 11 |
| 24063151191518 | PRATHAMESH DATTATRAY NAVALE | 16 | 13 | 4 | 14 | 11 |
| 24063151191519 | SUMIT SUBHASH NIKAM | 14 | 12 | 1 | 16 | 12 |
| 24063151191520 | AJAY VITTHAL PATIL | 16 | 12 | 5 | 14 | 11 |
| 24063151191521 | RASIKA SAGAR PATIL | 17 | 12 | 26 | 16 | 11 |
| 24063151191523 | SANIKA SAGAR PATIL | 15 | 11 | 21 | 17 | 10 |
| 24063151191527 | PRATHAMESH PUNDLIK SHINDE | 18 | 13 | 1 | 15 | 11 |
| 24063151191529 | WAIKAR PRAJAKTA PRAMOD | 17 | 13 | 10 | 18 | 11 |
| | TOTAL NUMBER OF STUDENT | | | 30 | | |
| | ABSENT | | | 0 | | |
| | PASS | | | 8 | | |
| | FAIL | | | 22 | | |
| | PERCENTAGE RESULT | | | 26% | | |
| | SUBJECT TEACHER | | | Prof.S.S.Chavan | | |

Dept. of Civil Engineering (Degree) SANJEEVAN GROUP OF INSTITUTIONS PANHALA

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Panhala, Dist. Kolhapur - 416201

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

| Enrollment No | Name | BTCVC404 - WATER RESOURCES ENGINEERING ( ESE ) - Theory | BTCVC405 - HYDRAULICS - II ( CA ) - Theory,Internal | BTCVC405 - HYDRAULICS - II ( MID ) - Theory,Internal | BTCVC405 - HYDRAULICS - II ( ESE ) - Theory | BTCVC406 - ENGINEERING GEOLOGY ( CA ) - Theory,Internal |
|---|---|---|---|---|---|---|
| | Out OF : | 60 | 20 | 20 | 60 | 20 |
| 23063151191001 | SHELAR GHANASHYAM ANKUSH | 4 | 18 | 11 | 29 | 19 |
| 23063151191002 | SHINDE ROHIT RAJARAM | 9 | 15 | 12 | 23 | 15 |
| 23063151191003 | CHARANKAR BHUSHAN AJAYKUMAR | Zoo | 18 | 11 | 28 | 16 |
| 23063151191004 | CHOUGALE RAJVARDHAN BHIKAJI | 6 | 18 | 11 | 24 | 17 |
| 23063151191005 | NAKADI SHASHIKANT CHANDRAKANT | 7 | 18 | 10 | 25 | 14 |
| 24063151191503 | MAYUR SHIVAJI BHOSALE | 34 | 19 | 11 | 25 | 15 |
| 24063151191505 | CHAVAN VISHAL HINDURAO | 22 | 18 | 8 | 25 | 13 |
| 24063151191507 | GAYATRI SAVAKAR CHOUGULE | 36 | 19 | 13 | 44 | 19 |
| 24063151191514 | PAYAL PANDURANG JAGADALE | 27 | 18 | 11 | 21 | 17 |
| 24063151191515 | SAKSHI PRATAP MOHITE | 33 | 18 | 11 | 30 | 17 |
| 24063151191516 | TUSHAR MAHADEV MOHITE | 20 | 18 | 12 | 30 | 18 |
| 24063151191522 | SAMARTH SANDEEP PATIL | 22 | 18 | 8 | 30 | 12 |
| 24063151191524 | SHREESH UTTAM PATIL | 26 | 18 | 12 | 27 | 14 |
| 24063151191526 | SHUBHAM NANA PATIL | 22 | 18 | 9 | 28 | 15 |
| 24063151191528 | MONIKA PRAMOD WAIKAR | 21 | 18 | 8 | 35 | 14 |
| 24063151191501 | SATYAJIT VIJAY BHANDARI | 27 | 18 | 12 | 22 | 16 |
| 24063151191502 | SANIKA BAJIRAO BHOITE | 16 | 17 | 10 | 26 | 14 |
| 24063151191504 | PAYAL BAJIRAO BHOYATE | 33 | 17 | 11 | 40 | 16 |
| 24063151191509 | SHUBHAM UDAY DHAWALE | | 16 | 8 | 22 | 14 |
| 24063151191511 | ABHUYDAY KAKASO GURAV | 10 | 17 | 8 | 17 | 15 |
| 24063151191512 | JADHAV KRISHNARAJ ARVIND | 24 | 18 | 9 | 29 | 15 |
| 24063151191513 | PRATHAMESH BANDERAO JADHAV | 24 | 18 | 10 | 28 | 15 |
| 24063151191517 | SARTH ANIL NALAWADE | 25 | 18 | 9 | 16 | 17 |
| 24063151191518 | PRATHAMESH DATTATRAY NAVALE | 28 | 18 | 12 | 28 | 15 |
| 24063151191519 | SUMIT SUBHASH NIKAM | 22 | 18 | 10 | 28 | 15 |
| 24063151191520 | AJAY VITTHAL PATIL | 17 | 18 | 11 | 30 | 16 |
| 24063151191521 | RASIKA SAGAR PATIL | 29 | 18 | 11 | 34 | 17 |
| 24063151191523 | SANIKA SAGAR PATIL | 27 | 18 | 8 | 41 | 15 |
| 24063151191527 | PRATHAMESH PUNDLIK SHINDE | 31 | 18 | 9 | 26 | 14 |
| 24063151191529 | WAIKAR PRAJAKTA PRAMOD | 24 | 18 | 8 | 25 | 14 |
| | TOTAL NUMBER OF STUDENT | 29 | | | 30 | |
| | ABSENT | 1 | | | 0 | |
| | PASS | 21 | | | 28 | |
| | FAIL | 7 | | | 2 | |
| | PERCENTAGE RESULT | 72% | | | 93% | |
| | SUBJECT TEACHER | Prof.A.C.Thoke | | | Prof.A.M.Momin | |

Head of Department
Civil Engineering (Degree)

PRINCIPAL
Sanjeevan Group Of In
(Degree Engg.), Somwarpe
Tal. Panhala, Dist. Kolhapur -

| Enrollment No | Name | BTCVC406 - ENGINEERING GEOLOGY ( MID ) - Theory,Internal | BTCVC406 - ENGINEERING GEOLOGY ( ESE ) - Theory | BTCVL407 - BUILDING PLANNING AND CAD LAB ( CA ) - Practical,Internal | BTCVL407 - BUILDING PLANNING AND CAD LAB ( ESE ) - Practical,External |
|---|---|---|---|---|---|
| | Out Of : | 20 | 60 | 20 | 30 |
| 23063151191001 | SHELAR GHANASHYAM ANKUSH | 15 | 20 | 18 | 25 |
| 23063151191002 | SHINDE ROHIT RAJARAM | 16 | 13 | 18 | 26 |
| 23063151191003 | CHARANKAR BHUSHAN AJAYKUMAR | 14 | 12 | 18 | 25 |
| 23063151191004 | CHOUGALE RANVARDHAN BHIKAJI | 13 | 14 | 18 | 25 |
| 23063151191005 | NAKADI SHASHIKANT CHANDRAKANT | 15 | 23 | 18 | 24 |
| 24063151191503 | MAYUR SHIVAJI BHOSALE | 13 | 32 | 18 | 26 |
| 24063151191505 | CHAVAN VISNAL HINDURAO | 12 | 20 | 17 | 22 |
| 24063151191507 | GAYATRI SAVAKAR CHOUGULE | 19 | 34 | 18 | 25 |
| 24063151191514 | PAYAL PANDURANG JAGADALE | 18 | 21 | 18 | 24 |
| 24063151191515 | SAKSHI PRATAP MOHITE | 19 | 29 | 18 | 24 |
| 24063151191516 | TUSHAR MAHADEV MOHITE | 12 | 25 | 18 | 26 |
| 24063151191522 | SAMARTH SANDEEP PATIL | 13 | 49 | 17 | 22 |
| 24063151191524 | SHREESH UTTAM PATIL | 16 | 13 | 18 | 24 |
| 24063151191526 | SHUBHAM NANA PATIL | 13 | 24 | 18 | 26 |
| 24063151191528 | MONIKA PRAMOD WAIKAR | 19 | 23 | 17 | 24 |
| 24063151191501 | SATYAJIT VIJAY BHANDARI | 10 | 21 | 19 | 25 |
| 24063151191502 | SANIKA BAJIRAO BHOITE | 11 | 17 | 16 | 22 |
| 24063151191504 | PAYAL BAJIRAO BHOYATE | 10 | 32 | 17 | 22 |
| 24063151191509 | SHUBHAM UDAY DHAWALE | 11 | | 17 | 22 |
| 24063151191511 | ABHUYDAY KAKASO GURAV | 15 | 20 | 17 | 22 |
| 24063151191512 | JADHAV KRISHNARAJ ARVIND | 12 | 26 | 18 | 25 |
| 24063151191513 | PRATHAMESH BANDERAO JADHAV | 13 | 31 | 18 | 25 |
| 24063151191517 | SARTH ANIL NALAWADE | 15 | 14 | 17 | 22 |
| 24063151191518 | PRATHAMESH DATTATRAY NAVALE | 13 | 26 | 17 | 23 |
| 24063151191519 | SUMIT SUBHASH NIKAM | 12 | 25 | 17 | 23 |
| 24063151191520 | AJAY VITTHAL PATIL | 10 | 20 | 18 | 25 |
| 24063151191521 | RASIKA SAGAR PATIL | 19 | 24 | 18 | 25 |
| 24063151191523 | SANIKA SAGAR PATIL | 11 | 25 | 17 | 23 |
| 24063151191527 | PRATHAMESH PUNDUK SHINDE | 14 | 27 | 18 | 26 |
| 24063151191529 | WAIKAR PRAJAKTA PRAMOD | 12 | 25 | 17 | 24 |
| | TOTAL NUMBER OF STUDENT | | 29 | | |
| | ABSENT | | 1 | | |
| | PASS | | 23 | | |
| | FAIL | | 6 | | |
| | PERCENTAGE RESULT | | 79% | | |
| | SUBJECT TEACHER | | Prof.C.N.Patil | | |

Dept. of Civil Engineering (Degree)

Head of Department
Civil Engineering (Degree).
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur , 416201

PRINCIPAL
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(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

| Enrollment No | Name | BTCVL408 - ENVIRONMENTAL ENGG. LAB ( CA ) - Practical,Internal | BTCVL408 - ENVIRONMENTAL ENGG. LAB ( ESE ) - Practical,External | BTCVL409 - HE-II LAB ( CA ) - Practical,Internal | BTCVL409 - HE-II LAB ( ESE ) - Practical,External | Remark |
|---|---|---|---|---|---|---|
| | Out OF : | 20 | 30 | 20 | 30 | |
| 23063151191001 | SHELAR GHANASHYAM ANKUSH | 18 | 24 | 16 | 24 | Fail |
| 23063151191002 | SHINDE ROHIT RAJARAM | 18 | 24 | 16 | 24 | Fail |
| 23063151191003 | CHARANKAR BHUSHAN AJAYKUMAR | 18 | 22 | 16 | 24 | Fail |
| 23063151191004 | CHOUGALE RAJVARDHAN BHIKAJI | 18 | 24 | 16 | 24 | Fail |
| 23063151191005 | NAKADI SHASHIKANT CHANDRAKANT | 18 | 23 | 16 | 20 | Fail |
| 24063151191503 | MAYUR SHIVAJI BHOSALE | 17 | 24 | 18 | 22 | Pass |
| 24063151191505 | CHAVAN VISHAL HINDURAO | 12 | 15 | 12 | 16 | Fail |
| 24063151191507 | GAYATRI SAVAKAR CHOUGULE | 18 | 22 | 18 | 24 | Pass |
| 24063151191514 | PAYAL PANDURANG JAGADALE | 17 | 25 | 16 | 20 | Fail |
| 24063151191515 | SAKSHI PRATAP MOHITE | 17 | 23 | 16 | 20 | Pass |
| 24063151191516 | TUSHAR MAHADEV MOHITE | 18 | 20 | 16 | 24 | Fail |
| 24063151191522 | SAMARTH SANDEEP PATIL | 14 | 26 | 15 | 20 | Fail |
| 24063151191524 | SHREESH UTTAM PATIL | 17 | 22 | 16 | 20 | Fail |
| 24063151191526 | SHUBHAM NANA PATIL | 16 | 18 | 15 | 19 | Fail |
| 24063151191528 | MONIKA PRAMOD WAIKAR | 15 | 25 | 15 | 19 | Pass |
| 24063151191501 | SATYAJIT VIJAY BHANDARI | 17 | 26 | 16 | 20 | Withheld |
| 24063151191502 | SANIKA BAJIRAO BHOITE | 11 | 15 | 12 | 20 | Withheld |
| 24063151191504 | PAYAL BAJIRAO BHOYATE | 11 | 15 | 12 | 20 | Withheld |
| 24063151191509 | SHUBHAM UDAY DHAWALE | 11 | 15 | 15 | 20 | Withheld |
| 24063151191511 | ABHUYDAY KAKASO GURAV | 12 | 18 | 12 | 16 | Withheld |
| 24063151191512 | JADHAV KRISHNARAJ ARVIND | 17 | 25 | 16 | 22 | Withheld |
| 24063151191513 | PRATHAMESH BANDERAO JADHAV | 17 | 22 | 16 | 20 | Withheld |
| 24063151191517 | SARTH ANIL NALAWADE | 11 | 15 | 12 | 16 | Withheld |
| 24063151191518 | PRATHAMESH DATTATRAY NAVALE | 16 | 22 | 16 | 20 | Withheld |
| 24063151191519 | SUMIT SUBHASH NIKAM | 11 | 15 | 12 | 16 | Withheld |
| 24063151191520 | AJAY VITTHAL PATIL | 15 | 24 | 16 | 20 | Withheld |
| 24063151191521 | RASIKA SAGAR PATIL | 11 | 15 | 16 | 20 | Withheld |
| 24063151191523 | SANIKA SAGAR PATIL | 11 | 15 | 16 | 20 | Withheld |
| 24063151191527 | PRATHAMESH PUNDLIK SHINDE | 18 | 21 | 16 | 20 | Withheld |
| 24063151191529 | WAIKAR PRAJAKTA PRAMOD | 11 | 15 | 12 | 16 | Withheld |
| | TOTAL NUMBER OF STUDENT | | | | | |
| | ABSENT | | | | | |
| | PASS | | | | | |
| | FAIL | | | | | |
| | PERCENTAGE RESULT | | | | | |
| | SUBJECT TEACHER | | | | | |

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

Dept. of Civil Engineering (Deg.)

# RESULT ANALYSIS

## AY 2024-25

## CLASS: BTECH. (SEM. VII)

| | | |
|---|---|---|
| PREPARED BY | Prof.. Momin A. M.<br>(Result Analysis Co-ordinator) | |
| CHECKED BY | Prof. MEVEKARI J.S.<br>H.O. D.<br>CIVIL ENGG. DEPARTMENT | |
| SUBMITED TO | Dr. S. N. JAIN<br>PRINCIPAL<br>SETI, Panhala | |

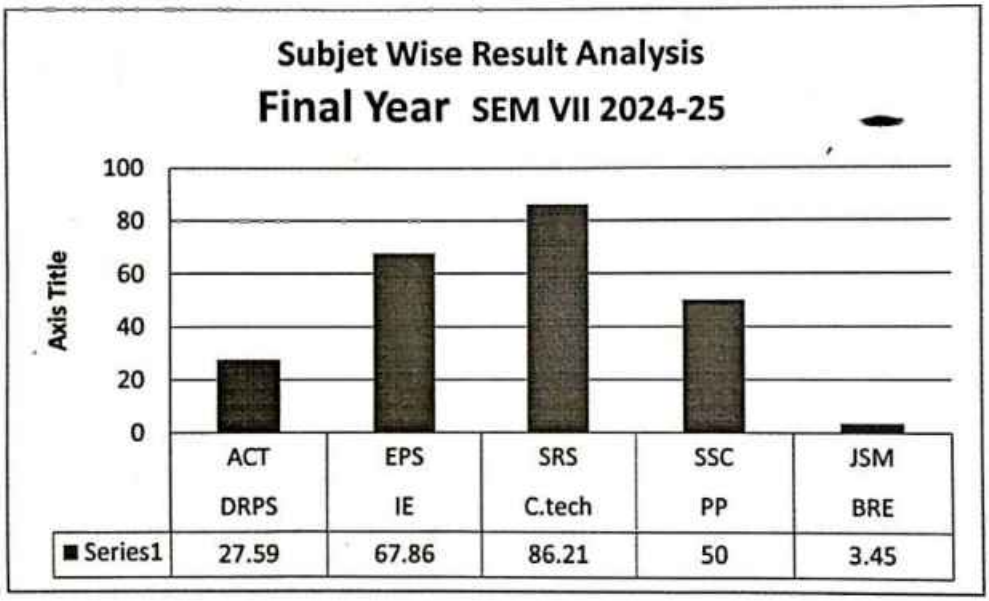
Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth, Panhala, Dist. Kolhapur

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

SANJEEVAN GROUP OF INSTITUTIONS * PANHALA *
Dept. of Civil Engineering (Degree)

## Civil Engineering Department

| SUBJET | SUBJECT NAME | NAME OF TEACHING FACULTY |
|---|---|---|
| DRPS | Design of Reinforced & Prestressed Concrete Structures | Prof .J. S. MEVEKARI |
| IE | INFRASTRUCTURE ENGINEERING | Prof. E.P.SALOKHE |
| CT | CONSTRUCTION TECHNIQUES | Prof. S.R.SALOKHE |
| PP | PROFFESIONAL PRACTICES | Prof. S.S.CHAVAN |
| BRE | BRIDGE ENGINEERING | Prof. J. S.MEVEKARI |




| Subject | DRPS | IE | CT | PP | BRE |
|---|---|---|---|---|---|
| Subject Teacher | A.C.T. | E.P.S. | S.R.S. | S.S.C. | J.S.M. |
| Total Present | 29 | 29 | 29 | 29 | 29 |
| Absent | 0 | 1 | 0 | 1 | 0 |
| Pass | 08 | 19 | 25 | 14 | 01 |
| Fail | 21 | 09 | 04 | 14 | 28 |
| % Result | 27.59% | 67.86% | 8621% | 50% | 3.45% |

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist. Kolhapur, 416201

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Civil Engineering (Degree)

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Pin- 416 201 (M.S.)

# Sanjeevan Group Of Institutions,Panhala

## Department Of Civil Engineering

### Final Year (Sem-VII) 2024-25 Result Analysis

| Enrollment No | Name | BTCVC701 - DESIGN OF REINFORCED & PRESTRESSED CONCRETE STRUCTURES ESE - Theory | BTCVC701 - DESIGN OF REINFORCED & PRESTRESSED CONCRETE STRUCTURES | BTCVC702 - INFRASTRUCTURE ENGINEERING ( ESE ) - Theory | BTCVC702 - INFRASTRUCTURE ENGINEERING - Theory | BTCVC703 - CONSTRUCTION TECHNIQUES ESE - Theory | BTCVC703 - CONSTRUCTION TECHNIQUES | BTCVC704 - PROFESSIONAL PRACTICES ESE- Theory | BTCVC704 - PROFESSIONAL PRACTICES | BTCVE705I - BRIDGE ENGINEERING ESE - Theory | BTCVE705I - BRIDGE ENGINEERING | SGPA | CGPA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Out OF : | 60 | GRADE | 60 | GRADE | 60 | GRADE | 60 | GRADE | 60 | GRADE | | |
| 2163151191001 | GANDITKAR SANDHYA APPARAO | 21 | DE | 25 | DD | 35 | CC | 26 | DD | 8 | FF | | |
| 2163151191002 | GAIKWAD PRUTHVIRAJ PRATAP | 30 | CD | 35 | CC | 27 | CD | 30 | CD | 29 | CD | 7.09 | |
| 2163151191006 | RATHOD KIRAN VASANT | 20 | DE | 3 | FF | 27 | DD | 13 | FF | 4 | FF | | |
| 2163151191009 | PATIL RUTURAJ KRISHNA | 21 | DE | 21 | EE | 29 | CD | 23 | DE | 8 | FF | | |
| 2263151191501 | PATIL SUYOG TANAJI | 11 | FF | 26 | DD | 26 | DD | 20 | EE | 2 | FF | | |
| 2263151191502 | KADAM SOHAM SHIVPRASAD | 9 | FF | 22 | EE | 25 | EE | 14 | FF | 3 | FF | | |
| 2263151191503 | SUTAR OMKAR SHANTARAM | 8 | FF | 20 | EE | 18 | FF | 14 | FF | 4 | FF | | |
| 2263151191504 | WAGARE PRATIK YUVARAJ | | | | | | | | | | | | |
| 2263151191505 | PATIL HARSHVARDHAN | 11 | FF | 23 | DE | 20 | EE | 16 | FF | 4 | FF | | |
| 2263151191506 | KORKE SHUBHAM SANJAY | 13 | FF | 7 | FF | 31 | DD | 11 | FF | 5 | FF | | |
| 2263151191507 | HALADE SOURAV SACHIN | 20 | DE | 21 | EE | 24 | DD | 27 | CD | 4 | FF | | |
| 2263151191508 | AVADHOOT RAVINDRA KHADE | 9 | FF | 29 | DE | 26 | DE | 14 | FF | 0 | FF | | |
| 2263151191511 | MARADE ANIKET DILIP | 13 | FF | 20 | EE | 21 | EE | 10 | FF | 4 | FF | | |
| 2263151191513 | RAORANE ROHAN PANDHARI | 13 | FF | AB | FF | 25 | DE | AB | FF | 1 | FF | | |
| 2263151191514 | PATIL DHAIRYASHIL SNEHADIP | 9 | FF | 11 | FF | 21 | EE | 13 | FF | 4 | FF | | |
| 2263151191516 | KAPIL SANJAY MAHADIK | 12 | FF | 20 | EE | 21 | EE | 20 | EE | 0 | FF | | |
| 2263151191517 | BELVALKAR TEJAS VIJAY | 9 | FF | 14 | FF | 20 | EE | 10 | FF | 3 | FF | | |
| 2263151191518 | SHINDE ANIRUDHA KUMAR | 13 | FF | 20 | EE | 22 | EE | 20 | EE | 0 | FF | | |
| 2263151191519 | JADHAV KARAN VIKRAMSINH | 20 | EE | 24 | DE | 26 | DE | 13 | FF | 0 | FF | | |
| 2263151191522 | POWAR SAKSHI DINKAR | 20 | DE | 20 | DE | 23 | DE | 21 | DE | 0 | FF | | |
| 2263151191523 | BHONGALE AVDHUT VINOD | 7 | FF | 20 | EE | 21 | EE | 12 | FF | 0 | FF | | |
| 2263151191527 | PATIL ATUL BHAGAVAN | 12 | FF | 20 | EE | 18 | FF | 14 | FF | 4 | FF | | |
| 2263151191530 | LOHAR GANESH SANTOSH | 9 | FF | 5 | FF | 24 | EE | 20 | EE | 4 | FF | | |
| 2263151191531 | PATIL SAIPRASAD JANARDAN | 9 | FF | 21 | EE | 22 | EE | 20 | EE | 4 | FF | | |
| 2263151191532 | KAMBLE TEJAS DHANAJI | 20 | DE | 25 | DE | 23 | DD | 30 | CD | 14 | FF | | |
| 2263151191534 | PATIL RITESH KRUSHNAT | 14 | FF | 9 | FF | 24 | DD | 22 | DE | 4 | FF | | |
| 2263151191535 | PATIL VISHAL VIJAY | | | | | | | | | | | | |

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur , 416201

Dept. of Civil Engineering (Degree)

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(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

# Sanjeevan Group Of Institutions,Panhala

## Department Of Civil Engineering

### Final Year (Sem-VII) 2024-25 Result Analysis

| Enrollment No | Name | BTCVC701 - DESIGN OF REINFORCED & PRESTRESSED CONCRETE STRUCTURES ESE - Theory | BTCVC701 - DESIGN OF REINFORCED & PRESTRESSED CONCRETE STRUCTURES | BTCVC702 - INFRASTRUCTURE ENGINEERING ( ESE ) - Theory | BTCVC702 - INFRASTRUCTURE ENGINEERING Theory | BTCVC703 - CONSTRUCTION TECHNIQUES ESE - Theory | BTCVC703 - CONSTRUCTION TECHNIQUES | BTCVC704 - PROFESSIONAL PRACTICES ESE- Theory | BTCVC704 - PROFESSIONAL PRACTICES | BTCVE705I - BRIDGE ENGINEERING ESE - Theory | BTCVE705I - BRIDGE ENGINEERING | SGPA | CGPA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Out OF : | 60 | GRADE | 60 | GRADE | 60 | GRADE | 60 | GRADE | 60 | GRADE | | |
| 2263151191536 | RAORANE SAMRUDDHI SUNIL | 8 | FF | 20 | DE | 20 | EE | 21 | EE | 5 | FF | | |
| 2263151191540 | KEMBLE RAVIKANT RAGHUNATH | 9 | FF | 0 | FF | 23 | EE | 21 | EE | 8 | FF | | |
| | TOTAL NUMBER OF STUDENT | 29 | | 29 | | 29 | | 29 | | 29 | | | |
| | ABSENT | 0 | | 1 | | 0 | | 1 | | 0 | | | |
| | PASS | 8 | | 19 | | 25 | | 14 | | 1 | | | |
| | FAIL | 21 | | 9 | | 4 | | 14 | | 28 | | | |
| | PERCENTAGE RESULT | 27.59 | | 67.86 | | 86.21 | | 50 | | 3.45 | | | |
| | SUBJECT TEACHER | Prof.A.C.Thoke | | Prof.E.P.Salokhe | | Prof.S.R.Salokhe | | Prof.S.S.Chavan | | Prof.J.S.Mevekari | | | |

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur , 416201

SANJEEVAN GROUP OF INSTITUTIONS * PANHALA *
Dept. of Civil Engineering (Degree)

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

# RESULT ANALYSIS

# AY 2024-25

# CLASS: T.Y.CIVIL. (SEM. V)

| | | |
|---|---|---|
| PREPARED BY | Mrs. MOMIN A.M.<br>(Result Analysis Co-ordinator) | |
| CHECKED BY | Mr. J.S.MEVEKARI<br>H.O. D.<br>CIVIL ENGG. DEPARTMENT | |
| SUBMITED TO | Dr.S.N.JAIN<br>PRINCIPAL<br>SETI, Panhala | |

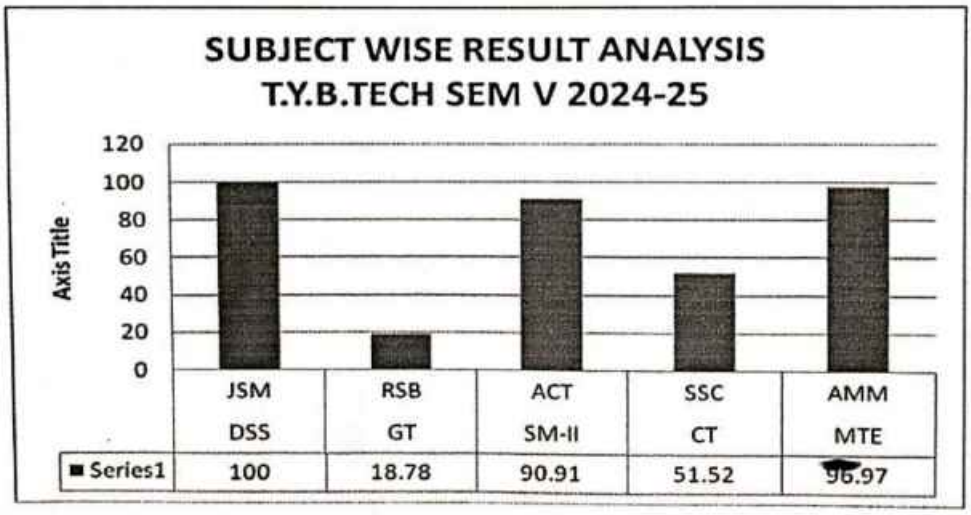
Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth, Panhala, Dist. Kolhapur, 41

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

HOLY-WOOD ACADEMY'S
SANJEEVAN
ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA
Sanjeevan Knowledge City, Somwar Peth-Inside, Panhala, Tal. Panhala, Dist. Kolhapur
Pin- 416 201 (Maharashtra) Phone : 9146999560
DTE Code : EN6315
NAAC Accredited
AICTE ID : 1-6019431
AISHE Code : C-41165
Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra & DTE
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

# Civil Engineering Department

| SUBJET | SUBJECT CODE | SUBJECT NAME | NAME OF TEACHING FACULTY |
|---|---|---|---|
| DSS | BTCVC 501 | DESIGN OF STEEL STRUCTURE | Prof.J.S.Mevekari |
| GT | BTCVC502 | GEOTECHNICAL ENGINEERING | Prof.R.S.Bore |
| SMII | BTCVC503 | STRUCTURAL MECHANICS II | Prof.A.C.Thoke |
| CT | BTCVC504 | CONCRETE TECHNOLOGY | Prof.S.S.Chavan |
| SACE | BTCVES507 | SOFTWARE APPLICATION IN CIVIL ENGINEERING | Prof.A.M.Momin |
| MTE | BTCVPE506G | MATERIAL TESTING AND EVALUATION | Prof.A.M.Momin |




| Subject | DSS | GT | SMII | CT | MTE |
|---|---|---|---|---|---|
| Subject Teacher | J.S.M. | R.S.B. | A.C.T.. | S.S.C | A.M.M. |
| Total Present | 35 | 35 | 35 | 35 | 35 |
| Absent | 2 | 3 | 2 | 02 | 02 |
| Pass | 33 | 06 | 30 | 17 | 32 |
| Fail | 0 | 24 | 03 | 16 | 01 |
| % Result | 100% | 18.78% | 90.91% | 51.52% | 96.97% |

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur , 416201

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Civil Engineering (Degree)

PRINCIPAL
Sanjeevan Group of Institutions
(Degree Engg.) Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

# Sanjeevan Group of Institutions,Panhala

## Department Of Civil Engineering

### T.Y.B.Tech (Sem-V) 2024-25 Result Analysis

| Enrollment No | Name | BTCVC501 - DESIGN OF STEEL STRUCTURES ESE | BTCVC501 - DESIGN OF STEEL STRUCTURE | BTCVC502 - GEOTECHNICAL ENGINEERING ESE | BTCVC502 - GEOTECHNICAL ENGINEERING | BTCVC503 - STRUCTURAL MECHANICS - II ESE | BTCVC503 - STRUCTURAL MECHANICS - ESE | BTCVC504 - CONCRETE TECHNOLOGY ESE | BTCVC504 - CONCRETE TECHNOLOGY | BTCVPE506G - MATERIAL, TESTING AND EVALUATION ESE | BTCVPE506G - MATERIAL, TESTING AND EVALUATION | SGPA | CGPA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Out Of : | 60 | GRADE | 60 | GRADE | 60 | GRADE | 20 | GRADE | 60 | GRADE | | |
| 2163151191007 | KAMBLE PREM SHRIKANT | AB | FF | AB | FF | AB | FF | AB | FF | AB | FF | | |
| 2263151191001 | PATIL SAHIL ARUN | 29 | CD | 12 | FF | 23 | DD | 7 | FF | 33 | CD | | |
| 2263151191002 | BHOIR DIPESH ANANTA | 27 | CD | 8 | FF | 24 | DD | 20 | DE | 29 | CD | | |
| 2263151191003 | KADAM SAMARTH PRAVINKUMAR | 32 | DD | 0 | FF | 20 | EE | 3 | FF | 24 | EE | | |
| 2263151191005 | KARANDE PRACHI SANJAY | 29 | CD | 21 | DE | 21 | DE | 27 | DD | 37 | CC | 6.45 | |
| 2263151191006 | DINDE SAMARTH JANARDAN | 29 | DE | 9 | FF | 22 | DE | 8 | FF | 31 | DD | | |
| 2263151191007 | PATIL MAYUR DEEPAK | 29 | DE | 10 | FF | 22 | EE | 5 | FF | 14 | FF | | |
| 2263151191008 | VYANKATESH MANOHAR PATIL | 30 | DE | 11 | FF | 23 | DE | 5 | FF | 26 | DE | | |
| 2263151191509 | SATHE BHARAT DINKAR | 29 | DE | 29 | DD | 23 | DE | 31 | DD | 36 | CD | 5.93 | |
| 23063151191501 | LOKHANDE ASHISH ANANDA | 29 | DE | 20 | DE | 22 | EE | 33 | DD | 40 | CC | 6.05 | |
| 23063151191502 | POWAR SAMRAT ASHOK | 28 | DE | 8 | FF | 20 | EE | 21 | EE | 24 | EE | | |
| 23063151191503 | HIRUGADE ONKAR TANAJI | AB | FF | AB | FF | AB | FF | AB | FF | AB | FF | | |
| 23063151191504 | JADHAV SIDDHANT RAVINDRA | 24 | EE | AB | FF | 20 | EE | 20 | EE | 35 | DD | | |
| 23063151191505 | PATIL SUSHANT ABASAHEB | 23 | EE | 0 | FF | 20 | EE | 7 | FF | 23 | EE | | |
| 23063151191506 | ADULKAR SHANTANU SANTOSH | 27 | DE | 4 | FF | 20 | EE | 4 | FF | 24 | EE | | |
| 23063151191508 | KAMBLE TUSHAR DAGADU | 27 | DE | 3 | FF | 21 | EE | 5 | FF | 31 | DD | | |
| 23063151191509 | MANGORE PRATHMESH RAVINDRA | 30 | DE | 13 | FF | 20 | EE | 23 | EE | 40 | CC | | |
| 23063151191510 | BHOGULKAR VAIBHAV GUNDUPANT | 28 | DE | 8 | FF | 20 | EE | 14 | FF | 31 | DD | | |
| 23063151191514 | PATIL VIRENDRA BHIMRAO | 30 | DE | 9 | FF | 20 | EE | 36 | CD | 34 | CD | | |
| 23063151191515 | PATIL YUGANDHRA SHRIKANT | 32 | DD | 7 | FF | 29 | DE | 29 | DD | 40 | CC | | |
| 23063151191518 | KUMBHAR RUSHIKESH CHANDRAKANT | 35 | DD | 14 | FF | 20 | EE | 18 | FF | 36 | CD | | |
| 23063151191520 | KAMATE SHRIDHAR BABASAHEB | 26 | EE | 4 | FF | 22 | EE | 5 | FF | 27 | DD | | |
| 23063151191521 | THORAVAT KUMBHAR OMKAR RAJARAM | 33 | DD | 5 | FF | 22 | EE | 0 | FF | 25 | DE | | |
| 23063151191524 | KAMBLE SHUBHAM BAJIRAO | 28 | DE | 5 | FF | 21 | EE | 9 | FF | 29 | DD | | |
| 23063151191525 | PATIL SAURABH KRISHNAT | 28 | DE | 8 | FF | 24 | EE | 20 | EE | 30 | DD | | |
| 23063151191526 | SHINDE VIJAY GULSHAN | 22 | EE | 5 | FF | 20 | EE | 7 | FF | 22 | EE | | |
| 23063151191528 | KADAM SANKET ARUN | 26 | EE | 3 | FF | 21 | EE | 8 | FF | 33 | DD | | |
| 23063151191529 | DHUMALE SURAJ BHIKAJI | 28 | DE | 8 | FF | 27 | DE | 29 | DE | 24 | DE | | |
| 23063151191530 | PATIL AJAY DILIP | 34 | DD | 0 | FF | 21 | EE | 41 | CC | 41 | BC | | |
| 23063151191531 | TARALEKAR VIKAS RAMCHANDRA | 37 | CC | 9 | FF | 23 | EE | 31 | DD | 35 | CC | | |
| 23063151191532 | PALANGE SANIKA RAMESH | 27 | DE | [illegible] | FF | 23 | EE | 22 | EE | 34 | CD | | |

Head of Department
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Somwar Peth - Panhala, Dist- Kolhapur , 416201

Dept. of Civil Engineering (Degree)

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala
Tal. Panhala, Dist. Kolhapur - 416 201 (India)

# Sanjeevan Group of Institutions,Panhala

## Department Of Civil Engineering

### T.Y.B.Tech (Sem-V) 2024-25 Result Analysis

| Enrollment No | Name | BTCVC501 - DESIGN OF STEEL STRUCTURES ESE | BTCVC501 - DESIGN OF STEEL STRUCTURE | BTCVC502 - GEOTECHNICAL ENGINEERING ESE | BTCVC502 - GEOTECHNICAL ENGINEERING | BTCVC503 - STRUCTURAL MECHANICS - II ESE | BTCVC503 - STRUCTURAL MECHANICS - ESE | BTCVC504 - CONCRETE TECHNOLOGY ESE | BTCVC504 - CONCRETE TECHNOLOGY | BTCVPE506G - MATERIAL, TESTING AND EVALUATION ESE | BTCVPE506G - MATERIAL, TESTING AND EVALUATION | SGPA | CGPA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Out OF : | 60 | GRADE | 60 | GRADE | 60 | GRADE | 20 | GRADE | 60 | GRADE | | |
| 23063151191533 | SHINDE PRATIK RAJARAM | 25 | EE | 13 | FF | 22 | EE | 20 | EE | 35 | CD | | |
| 23063151191534 | SUTAR SANDEEP SADASHIV | 32 | DD | 21 | EE | 10 | FF | 13 | FF | 32 | CD | | |
| 23063151191536 | KAMBLE RAKESH VINOD | 24 | EE | 21 | EE | 9 | FF | 21 | EE | 25 | DE | | |
| 23063151191537 | LALE TEJAS BABURAO | 27 | DE | 24 | DE | 1 | FF | 20 | EE | 33 | CD | | |
| | TOTAL NUMBER OF STUDENT | 35 | | 35 | | 35 | | 35 | | 35 | | | |
| | ABSENT | 2 | | 3 | | 2 | | 2 | | 2 | | | |
| | PASS | 33 | | 6 | | 30 | | 17 | | 32 | | | |
| | FAIL | 0 | | 24 | | 3 | | 16 | | 1 | | | |
| | PERCENTAGE RESULT | 100 | | 18.75 | | 90.91 | | 51.52 | | 96.97 | | | |
| | SUBJECT TEACHER | Prof.J.S.Mevekari | | Prof.R.S.Bore | | Prof.A.C.Thoke | | Prof.S.S.Chavan | | Prof.A.M.Momin | | | |

Head of Department
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SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Civil Engineering (Degree)
PANHALA

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

# RESULT ANALYSIS

# AY 2024-25

# CLASS: S.Y.CIVIL. (SEM. III)

SANJEEVAN GROUP OF INSTITUTIONS
Dept. of Civil Engineering (Degree)
PANHALA

| | | |
|---|---|---|
| PREPARED BY | Mrs. MOMIN A.M.<br>(Result Analysis Co-ordinator) | |
| CHECKED BY | Mr. J.S.MEVEKARI<br>H.O. D.<br>CIVIL ENGG. DEPARTMENT | |
| SUBMITED TO | Dr.S.N.JAIN<br>PRINCIPAL<br>SETI, Panhala | |

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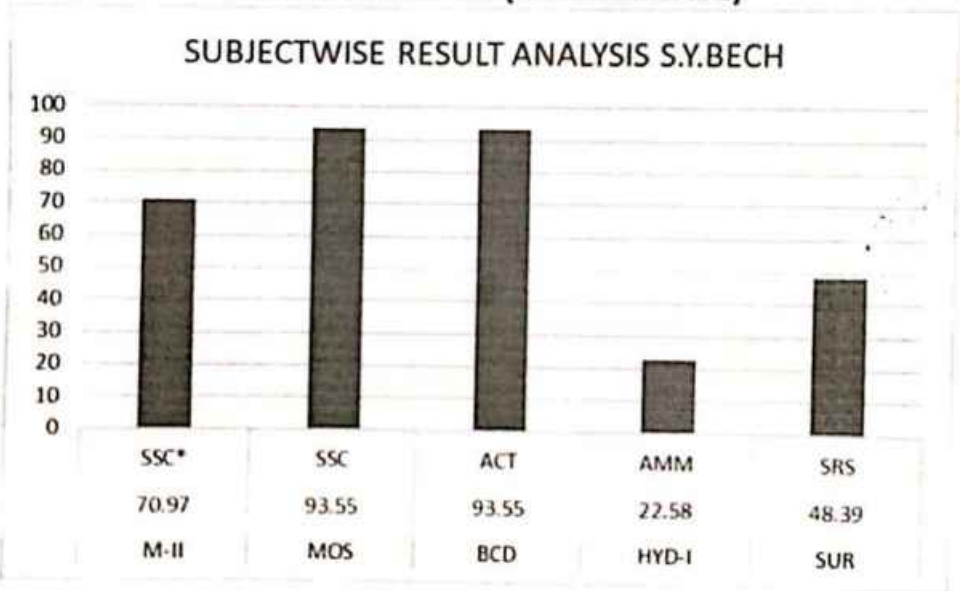
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

# Civil Engineering Department

| SUBJET | SUBJECT CODE | SUBJECT NAME | NAME OF TEACHING FACULTY |
|---|---|---|---|
| MIII | BTBS301 | ENGINEERING MATHEMATICS III | Prof. Shital S.Chavan |
| MOS | BTCVES302 | MECHANICS OF SOLIDS | Prof.S.S.Chavan |
| HYD I | BTCVC304 | HYDRAULICS I | Prof.A.M.Momin |
| SUR | BTCVC305 | SURVEYING | Prof. S.R.Salokhe |
| BCD | BTCVC303 | BUILDING CONSTRUCTION AND DRAWING | Prof.A.C.Thoke |

## RESULT ANALYSIS (SUBJECT WISE)




SANJEEVAN GROUP OF INSTITUTIONS ★ PANHALA ★ Dept. of Civil Engineering (Degree)

| Subject | MIII | MOS | HYD I | SUR | BCD |
|---|---|---|---|---|---|
| Subject Teacher | S.S.C* | S.S.C. | A.M.M. | S.R.S. | A.C.T |
| Total Present | 31 | 31 | 31 | 31 | 31 |
| Absent | 0 | 0 | 0 | 0 | 0 |
| Pass | 22 | 29 | 29 | 7 | 15 |
| Fail | 9 | 2 | 2 | 24 | 16 |
| % Result | 78% | 93% | 93% | 23% | 48% |

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Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

| Enrollment No | Name | BTCVC301 - Mathematics – III Theory | BTCVC301 - Mathematics – III Theory | BTCVES302 - Mechanics of Solids Theory | BTCVES302 - Mechanics of Solids Theory | BTCVC303 - Building Construction & Drawing Theory | BTCVC303 - Building Construction & Drawing Theory |
|---|---|---|---|---|---|---|---|
| | Out OF : | 60 | GRADE | 60 | GRADE | 60 | GRADE |
| 23063151191003 | CHARANKAR BHUSHAN AJAYKUMAR | 36 | CC | 28 | CD | 23 | DE |
| 23063151191004 | CHOUGALE RAJVARDHAN BHIKAJI | 26 | DE | 22 | DE | 30 | DD |
| 23063151191001 | SHELAR GHANASHYAM ANKUSH | 34 | CD | 20 | DE | 22 | DE |
| 23063151191002 | SHINDE ROHIT RAJARAM | 21 | EE | 20 | DE | 20 | EE |
| 23063151191005 | NAKADI SHASHIKANT CHANDRAKANT | 22 | DE | 34 | DD | 30 | DD |
| 24063151191516 | MOHITE TUSHAR MAHADEV | 23 | DE | 21 | DE | 35 | CD |
| 24063151191526 | PATIL SHUBHAM NANA | 20 | EE | 23 | DE | 23 | DE |
| 24063151191527 | SHINDE PRATHAMESH PUNDLIK | 29 | DD | 21 | BC | 28 | DD |
| 24063151191528 | WAIKAR MONIKA PRAMOD | 14 | FF | 26 | DD | 30 | DD |
| 24063151191529 | WAIKAR PRAJAKTA PRAMOD | 20 | EE | 25 | EE | 29 | DE |
| 24063151191522 | PATIL SAMARTH SANDEEP | 22 | EE | 21 | DE | 31 | DD |
| 24063151191507 | CHOUGULE GAYATRI SAVAKAR | 22 | EE | 27 | DD | 49 | BC |
| 24063151191510 | GAVADE PRATIKSHA BHAGWAN | | | | | | |
| 24063151191513 | JADHAV PRATHAMESH BANDERAO | 29 | DD | 20 | DE | 30 | DD |
| 24063151191515 | MOHITE SAKSHI PRATAP | 14 | FF | 20 | DE | 33 | DD |
| 24063151191503 | BHOSALE MAYUR SHIVAJI | 12 | FF | 24 | DE | 35 | CD |
| 24063151191517 | NALAWADE SARTH ANIL | 14 | FF | 20 | DE | 24 | EE |
| 24063151191506 | SURAJ SHIVAJI CHOUGALE | | | | | | |
| 24063151191504 | BHOYATE PAYAL BAJIRAO | 11 | FF | 29 | DD | 46 | BC |
| 24063151191502 | BHOITE SANIKA BAJIRAO | 10 | FF | 22 | DE | 25 | EE |
| 24063151191521 | PATIL RASIKA SAGAR | 23 | DE | 22 | EE | 33 | DD |
| 24063151191518 | NAVALE PRATHAMESH DATTATRAY | 12 | FF | 22 | DE | 22 | EE |
| 24063151191523 | PATIL SANIKA SAGAR | 20 | DE | 22 | DE | 26 | DE |
| 24063151191520 | PATIL AJAY VITTHAL | 21 | EE | 25 | DE | 28 | DE |
| 24063151191511 | GURAV ABHYUDAY KAKASO | 21 | EE | 11 | FF | 23 | EE |
| 24063151191519 | NIKAM SUMIT SUBHASH | 20 | EE | 20 | EE | 20 | EE |
| 24063151191524 | PATIL SHREESH UTTAM | 24 | DE | 22 | DE | 21 | EE |
| 24063151191505 | CHAVAN VISHAL HINDURAV | 20 | EE | 20 | EE | 10 | FF |
| 24063151191509 | DHAWALE SHUBHAM UDAY | 22 | EE | 20 | EE | 23 | EE |
| 24063151191514 | JAGDALE PAYAL PANDURANG | 12 | FF | 20 | EE | 24 | DE |
| 24063151191512 | JADHAV KRISHNARAJ ARVIND | 20 | EE | 18 | FF | 25 | DE |
| 24063151191525 | PATIL SHUBHAM ANANDA | 13 | FF | 22 | DE | 14 | FF |
| 24063151191508 | DESAI RUTVIK BHASKAR | | | | | | |
| 24063151191501 | BHANDARI SATYAJEET VIJAY | 25 | DD | 28 | CD | 36 | CC |
| | TOTAL NUMBER OF STUDENT | 31 | | 31 | | 31 | |
| | ABSENT | 0 | | 0 | | 0 | |
| | PASS | 22 | | 29 | | 29 | |
| | FAIL | 9 | | 2 | | 2 | |
| | PERCENTAGE RESULT | 70.97 | | 93.55 | | 93.55 | |
| | SUBJECT TEACHER | Prof.S.S.Chavan | | Prof.S.S.Chavan | | Prof.A.C.Thoke | |

Dept. of Civil Engineering (Degree)

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur, 416201

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(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201

| Enrollment No | Name | BTCVC304 - Hydraulics -I Theory | BTCVC304 - Hydraulics -I Theory | BTCVC305 - Surveying Theory | BTCVC305 - Surveying Theory | SGPA | CGPA |
|---|---|---|---|---|---|---|---|
| | Out OF : | 60 | GRADE | 60 | GRADE | | |
| 23063151191003 | CHARANKAR BHUSHAN AJAYKUMAR | ZOO | FF | 5 | FF | | |
| 23063151191004 | CHOUGALE RAJVARDHAN BHIKAJI | 8 | FF | 8 | FF | | |
| 23063151191001 | SHELAR GHANASHYAM ANKUSH | 5 | FF | 6 | FF | | |
| 23063151191002 | SHINDE ROHIT RAJARAM | 3 | FF | 8 | FF | | |
| 23063151191005 | NAKADI SHASHIKANT CHANDRAKANT | 7 | FF | 32 | CD | | |
| 24063151191516 | MOHITE TUSHAR MAHADEV | 20 | EE | 20 | DE | 5.86 | |
| 24063151191526 | PATIL SHUBHAM NANA | 3 | FF | 8 | FF | | |
| 24063151191527 | SHINDE PRATHAMESH PUNDLIK | 3 | FF | 11 | FF | | |
| 24063151191528 | WAIKAR MONIKA PRAMOD | 20 | EE | 32 | CD | | |
| 24063151191529 | WAIKAR PRAJAKTA PRAMOD | 7 | FF | 26 | EE | | |
| 24063151191522 | PATIL SAMARTH SANDEEP | 14 | FF | 8 | FF | | |
| 24063151191507 | CHOUGULE GAYATRI SAVAKAR | 22 | EE | 29 | DD | 6.07 | |
| 24063151191510 | GAVADE PRATIKSHA BHAGWAN | | | | | | |
| 24063151191513 | JADHAV PRATHAMESH BANDERAO | 11 | FF | 24 | DE | | |
| 24063151191515 | MOHITE SAKSHI PRATAP | 20 | EE | 26 | DD | | |
| 24063151191503 | BHOSALE MAYUR SHIVAJI | 2 | FF | 28 | DD | | |
| 24063151191517 | NALAWADE SARTH ANIL | 7 | FF | 21 | DE | | |
| 24063151191506 | SURAJ SHIVAJI CHOUGALE | | | | | | |
| 24063151191504 | BHOYATE PAYAL BAJIRAO | 8 | FF | 30 | DD | | |
| 24063151191502 | BHOITE SANIKA BAJIRAO | 5 | FF | 23 | DE | | |
| 24063151191521 | PATIL RASIKA SAGAR | 20 | EE | 27 | DD | 5.62 | |
| 24063151191518 | NAVALE PRATHAMESH DATTATRAY | 7 | FF | 30 | DD | | |
| 24063151191523 | PATIL SANIKA SAGAR | 20 | EE | 8 | FF | | |
| 24063151191520 | PATIL AJAY VITTHAL | 20 | EE | 26 | DD | 5.62 | |
| 24063151191511 | GURAV ABHYUDAY KAKASO | 2 | FF | 12 | FF | | |
| 24063151191519 | NIKAM SUMIT SUBHASH | 7 | FF | 10 | FF | | |
| 24063151191524 | PATIL SHREESH UTTAM | 5 | FF | 6 | FF | | |
| 24063151191505 | CHAVAN VISHAL HINDURAV | 8 | FF | 12 | FF | | |
| 24063151191509 | DHAWALE SHUBHAM UDAY | 3 | FF | 11 | FF | | |
| 24063151191514 | JAGDALE PAYAL PANDURANG | 5 | FF | 9 | FF | | |
| 24063151191512 | JADHAV KRISHNARAJ ARVIND | 3 | FF | 7 | FF | | |
| 24063151191525 | PATIL SHUBHAM ANANDA | 4 | FF | 11 | FF | | |
| 24063151191508 | DESAI RUTVIK BHASKAR | | | | | | |
| 24063151191501 | BHANDARI SATYAJEET VIJAY | 8 | FF | 35 | CC | | |
| | TOTAL NUMBER OF STUDENT | 31 | | 31 | | | |
| | ABSENT | 0 | | 0 | | | |
| | PASS | 7 | | 15 | | | |
| | FAIL | 24 | | 16 | | | |
| | PERCENTAGE RESULT | 22.58 | | 48.39 | | | |
| | SUBJECT TEACHER | Prof.A.M.Momin | | Prof.S.R.Salokhe | | | |

SANJEEVAN GROUP OF INSTITUTIONS Dept. of Civil Engineering (Degree) PANHALA

Head of Department
Civil Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist. Kolhapur

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

# SANJEEVAN

GROUP OF INSTITUTIONS, PANHALA

*Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.*

## Academic Calendar for A.Y. 2024-2025 (Even Semester)

| Month | Week/ Days | | | | | | | working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| FEBRUARY | | | | | | 1 | 2 | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | 05 -27 Feb- Winter 2024 End Sem Exam |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | 12-Sant Rohidas Jayanti |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | 19-Chha. Shivaji Maharaj Jayanti, 23 -Sant Gadage Baba Jay. |
| | 24 | 25 | 26 | 27 | 28 | | | | 26-Mahashivratri, 27-Marathi Bhasha Din, 28- Science Day |
| MARCH | | | | | | 1 | 2 | 0 | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 6 | 3- Commencement of Classes, 5-9:Sports, 8- Mahila Din |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 4 | 12 & 13:Annual Social Gathering, 14-Dhulivandan |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 6 | |
| | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 5 | 28- PARIKRAMAA, 30-Gudhi Padwa |
| | 31 | | | | | | | 0 | 31-Ramjan Id (Id-Ul-Fitra) |
| APRIL | | 1 | 2 | 3 | 4 | 5 | 6 | 4 | 6-Shri Ram Navami |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 5 | 10-Bhagwan Mahavir Janmkalyanak, 11-12:CA-1 |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 3 | 14-Dr.Ambedkar Jayanti,18-Good Friday, 20-Easter Sunday |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 6 | |
| | 28 | 29 | 30 | | | | | 3 | 30-Basaveshwar Jayanti |
| MAY | | | | 1 | 2 | 3 | 4 | 1 | 1-Maharashtra Din, 2-7: Mid Semester Exam |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 6 | |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 4 | 12-Buddha Pournima,14-Chha. Sambhajiraje Jayanti, |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 6 | |
| | 26 | 27 | 28 | 29 | 30 | 31 | | 5 | 28-Swa. Savarkar Jayanti, 31-Punya.Ahilyabai Jayanti |
| JUNE | | | | | | | 1 | 0 | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | 5-World Env Day, 7-Bakri Id (Id-Uz-Zuha) |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 5 | 9-Chha. Shiv Rajyabhishek Din |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 6 | 18-20: CA-2, 20-End of Classes, 21-23: Pract/Seminar/Mini |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 0 | Proj Exam, 24th June- 03rd July: End Semester Exam. |
| | 30 | | | | | | | 0 | 26-Chha.Shahu Jayanti, 21 June-30 July:Vacation Slot |
| Govt. Holiday | | CA/MSE/Pract. Exam/ESE | | | | | | 80 | 6 July- Moharam, 26th July 2025: Result Declaration, 01 Aug. 2025 Commencement of Classes for Next semester |
| Activities | | Institute Holiday | | | | | | | |

Notes: 1. The above dates may be altered in accordance with the directives issued by regulatory authorities. Additionally, classes on few Sundays will be conducted, except public holidays declared by the govt.

2. In alien with this, each department is required to develop it's own calendar to accurately represent departmental activities, industrial Visits and Student Intrenships etc.....

Dean Academics

Sanjeevan Group Of Institutions, Panhala — Degree Engg.

Principal

PRINCIPAL

Sanjeevan Group Of Institutions
Somwarpeth, Panhala, Tal. Panhala,
Dist. Kolhapur - 416 201

DTE Code : ENG315

NAAC Accredited

AICTE ID : 1-8019451
AISHE Code : C-11165

HOLY-WOOD ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
Sanjeevan Knowledge City, Somwar Peth Jaisale, Panhala, Tal. Panhala, Dist. Kolhapur
Pin- 416 201 (Maharashtra) Phone : 9146999500
Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra, DTE, DOA
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.

*Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.*

## *DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING*

## Department Academic Calendar for A.Y. 2024-2025 (Even Semester)

| Month | Week/ Days | | | | | | | Working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| | | | | | | 1 | 2 | | |
| FEBRUARY | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | 05 -27 Feb- Winter 2024 End Sem Exam |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | 12-Sant Rohidas Jayanti, Rgular NPTEL Assignment Solving |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | 19-Chha. Shivaji Maharaj Jayanti, 23 -Sant Gadage Baba Jay. |
| | 24 | 25 | 26 | 27 | 28 | | | | 26-Mahashivratri, 27-Marathi Bhasha Din, 28- Science Day |
| | | | | | | 1 | 2 | 0 | |
| MARCH | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 6 | 3- Commencement of Classes, 5-9:Sports, Conduction of one week FDP |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 4 | 12 & 13:Annual Social Gathering, 14-Dhulivandan |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 6 | Coding club avtivities on every Saturday |
| | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 5 | 28- PARIKRAMAA, 30-Gudhi Padwa |
| | 31 | | | | | | | 0 | 31-Ramjan Id (Id-Ul-Fitra),Rgular NPTEL Assignment Solving |
| APRIL | | 1 | 2 | 3 | 4 | 5 | 6 | 4 | 6-Shri Ram Navami, Technical Event |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 5 | 10-Bhagwan Mahavir Janmkalyanak, 11-12:CA-1 |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 3 | 14-Dr.Ambedkar Jayanti,18-Good Friday, 20-Easter Sunday |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 6 | Coding club avtivities on every Saturday |
| | 28 | 29 | 30 | | | | | 3 | 30-Basaveshwar Jayanti, Rgular NPTEL Assignment Solving |
| MAY | | | | 1 | 2 | 3 | 4 | 1 | 1-Maharashtra Din, 2-7: Mid Semester Exam, NPTEL Exam |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 6 | NPTEL Exam(Saturday, Sunday ) |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 4 | 12-Buddha Pournima,14-Chha. Sambhajiraje Jayanti, |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 6 | Coding club avtivities on every Saturday |
| | 26 | 27 | 28 | 29 | 30 | 31 | | 5 | 28-Swa. Savarkar Jayanti, 31-Punya.Ahilyabai Jayanti |
| | | | | | | | 1 | 0 | Coding club avtivities on every Saturday |
| JUNE | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | 5-World Env Day, 7-Bakri Id (Id-Uz-Zuha) |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 5 | 9-Chha. Shiv Rajyabhishek Din, Industrial Visit |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 6 | 18-20: CA-2, 20-End of Classes, 21-23: Pract/Seminar/Mini Proj |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 0 | Exam, 24th June- 03rd July: End Semester Exam. |
| | 30 | | | | | | | 0 | 26-Chha.Shahu Jayanti, 21 June-30 July: Vacation Slot |
| Govt. Holiday | | | CA/MSE/Pract. Exam/ESE | | | | | 80 | 6 July- Moharam, 26th July 2025: Result Declaration, |
| Activities | | | | | Institute Holiday | | | | 01 Aug. 2025 Commencement of Classes for Next semester |

**Notes:** 1. The above dates may be altered in accordance with the directives issued by regulatory authorities

2.Additionally, classes on few Sundays will be conducted, except public holidays declared by the govt.

H.O.D.(CSE)
Computer Scince and Engineering (Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

DEAN ACADEMICS

SANJEEVAN GROUP OF INSTITUTIONS ★ PANHALA ★
Dept. of Computer Science and Engineering (Degree)

PRINCIPAL
Sanjeevan Group of Institution
Somwarpeth, Panhala, Tal. Panhala
Dist. Kolhapur - 416 201 (M.S.)

HOLY-WOOD ACADEMY'S

# SANJEEVAN

GROUP OF INSTITUTIONS, PANHALA

***Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.***

## Academic Calendar for A.Y. 2024-2025 (Odd Semester)

| Month | Week/ Days | | | | | | | working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| AUGUST | | | | 1 | 2 | 3 | 4 | 2 | 1- Admission Reporting, Commencement of Classes |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 6 | |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 4 | 15 - Independence Day, Parsi New Year |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 6 | |
| | 26 | 27 | 28 | 29 | 30 | 31 | | 5 | 29-30- CA-1 |
| SEPTEMBI | | | | | | | 1 | 0 | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | 5 Teachers Day 7- Shri Ganesh Chaturthi |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 6 | 15- Engineer's Day |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 4 | 16- Eid-e-Milad |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 6 | 26-28- Mid Semester Exam. |
| | 30 | | | | | | | 1 | |
| OCTOBER | | 1 | 2 | 3 | 4 | 5 | 6 | 3 | 2- Mahatma Gandhi Jayanti. |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 5 | 12-Dussehra |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 5 | |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 6 | |
| | 28 | 29 | 30 | 31 | | | | 4 | |
| NOVEMBER | | | | | 1 | 2 | 3 | 0 | 1- Laxmi Pujan, 2-Bali Pratipada |
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 6 | |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 4 | 15- Guru Nanak Jayanti |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 5 | 22- End of Classes, 22-23-CA-2 |
| | 25 | 26 | 27 | 28 | 29 | 30 | | | Practical/Seminar/Mini Project Exam. |
| DECEMBER | | | | | | | 1 | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 2-26- End Semester Exam. |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | | |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | | 25- Christmas |
| | 30 | 31 | | | | | | | 27Dec 24- 20Jan25- Field Training/Internship/Industrial Training |
| Govt. Holiday | | CA/MSE/Pract. Exam/ESE | | | | | | 83 | 21st January 2025 Commencement of Classes for Next semester |
| Activities | | Institute Holiday | | | | | | | |

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.

.....2. In align with this, each Department shall prepare their separate calendar to reflect departmental

.....activities, Industrial Visits and Student Intrenships

Sanjeevan Group Of Institutions, Panhala ★ Degree Engg.

Dean Academics

Principal

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Dist. Kolhapur - 416 201 (M.S.)

HOLY-WOOD ACADEMY'S

# SANJEEVAN

GROUP OF INSTITUTIONS, PANHALA

## Academic Calendar for A.Y. 2024-2025 (Odd Semester)

## Departments Of Computer Science & Engineering

| Month | Week/ Days | | | | | | | working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| AUGUST | | | | 1 | 2 | 3 | 4 | 2 | 1- Admission Reporting, Commencement of Classes |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 6 | 5-9 - SDP on Foraign Language(Final Year),5-9 SDP ON Corporate Etiquetics(TY), 5-9-SDP on C Programming(SY) |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 4 | 15 - Independence Day, Parsi New Year |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 6 | 23-ISRO day, |
| | 26 | 27 | 28 | 29 | 30 | 31 | | 5 | 28- Industrial Visit at Walstar Tech.(SY), 29-30- CA-1 |
| SEPTEMBER | | | | | | | 1 | 0 | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | 5-Teachers Day, 7- Shri Ganesh Chaturthi |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 6 | 15- Engineer's Day |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 4 | 16- Eid-e-Milad |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 6 | 26-28- Mid Semester Exam. |
| | 30 | | | | | | | 1 | |
| OCTOBER | | 1 | 2 | 3 | 4 | 5 | 6 | 3 | 2- Mahatma Gandhi Jayanti. |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 5 | 12-Dussehra |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 5 | 18-Session On IPR,19-Industrial Visit at Infosys Pune(BE) |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 6 | |
| | 28 | 29 | 30 | 31 | | | | 4 | |
| NOVEMBER | | | | | 1 | 2 | 3 | 0 | 1- Laxmi Pujan, 2-Bali Pratipada |
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 6 | 7-Industrial Visit at Deshapandes Start-up Hubali(TY) |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 4 | 14- Parents Meet, 15- Guru Nanak Jayanti |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 5 | 22- End of Classes, 22-23-CA-2 |
| | 25 | 26 | 27 | 28 | 29 | 30 | | | Practical/Seminar/Mini Project Exam. |
| DECEMBER | | | | | | | 1 | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 2-26- End Semester Exam. |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | | |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | | 25- Christmas |
| | 30 | 31 | | | | | | | 27Dec 24- 20Jan25- Field Training/Internship/Industrial Training |
| Govt. Holiday | | CA/MSE/Pract. Exam/ESE | | | | | | 83 | 21st January 2025 Commencement of Classes for Next semester |
| Activities | | Institute Holiday | | | | | | | |

**Note:** 1. The above dates are subject to change as per the guidelines of regulating authorites.

.....2. In align with this, each Department shall prepare their separate calendar to reflect departmental

.....activities, Industrial Visits and Student Intrenships

Sanjeevan Group Of Institutions, Panhala * Degree Engg

Prepared By | HOD(CSE) | Dean Academics | Principal

PRINCIPAL

Sanjeevan Group Of Institutions

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Dist. Kolhapur - 416 201 (M.S.)

HOLY-WOOD ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur, Pin- 416 201 (Maharashtra) Phone : 9146999500
DTE Code : EN6315
NAAC Accredited
AICTE ID : 1-8019451
AISHE Code : C-11165
Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra, DTE, DOA
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.

**Date: 22 /11 /2024**

# NOTICE

All the students of **Department of Computer Science & Engineering** are here by inform that CA-II examination is scheduled on 25 /11 /2024 & 26/11/2024.

The time table is given below:

**CA-IIExamination Schedule 2024**

| Date | Time | SY (A) | TY(A) | TY(B) | B. Tech |
|---|---|---|---|---|---|
| 25 /11 /2024 | 9.30-10.30 | Engineering Mathematics – III | Theory of Computation | Database Systems | Deep Learning |
| 25 /11 /2024 | 10.45-11.45 | Discrete Mathematics | Database Systems | Theory of Computation | Cloud Computing |
| 25 /11 /2024 | 12.00-01.00 | Data Structures | Human computer Interaction | Software Engineering | Big Data Analytics |
| 26/11/2024 | 9.30-10.30 | Computer Architecture & Organization | Software Engineering | Business Communication | Cryptography and Network Security |
| 26/11/2024 | 10.45-11.45 | Object - oriented Programming in C++ | Business Communication | Human computer Interaction | Artificial Intelligence |

**Note: Attendance is mandatory.**

SANJEEVAN GROUP OF INSTITUTIONS Dept. of Computer Science and Engineering (Degree) PANHALA

**Exam Coordinator**

**H.O.D**

Head of Department
Computer Science & Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist. Kolhapur - 416201

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Dist. Kolhapur - 416 201 (M.S.)

| | |
|---|---|
| | **DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE.** |
| | **Sanjeevan Group of Institutions, Panhala.** |
| | **Department of Computer Science and Engineering** |
| | **Mid Semester Examination Summer 2025** |
| **SEMESTER: VI** | **ACADEMIC YEAR:** 2024-25 |
| **CLASS: T. Y. B. Tech.** | **Time : 3.30 pm To 4.30 pm** |
| **DAY & DATE: Thursday, 15/05/2025** | **Marks: 20** |
| **SUBJECT NAME WITH CODE: BTCOC603 Machine Learning** | |

**Instructions to the Students:**

1. All questions are compulsory
2. Assume suitable data if necessary
3. Use of non-programmable calculator is allowed

| Question No. | Sub Question | Question | CO | PO | BL | Marks |
|---|---|---|---|---|---|---|
| **1.** | | **Attempt the Following** | **4×1 =4** | | | |
| | a. | Multiple linear regression consist ---<br>a)single IV & single DV b) More than one DV & single IV<br>c)Single DV & More than one IV d) All of the Above | CO 1 | PO1 | BL 1 | 1 |
| | b. | Training dataset is used in ---<br>a) Supervised b)Unsupervised<br>c) Reinforcement d)All of the above | CO 1 | PO1 | BL 1 | 1 |
| | c. | Logistic Regression solve ----------problem<br>a) Classification b) Regression<br>c) Both a&b d)None of these | CO 1 | PO1 | BL 1 | 1 |
| | d. | Hypothesis Space(H) is<br>a) Set of all data points b) Set of all hypothesis(h)<br>c) Set of empty Space d) All of the above | CO 1 | PO1 | BL 1 | 1 |
| **2.** | | **Solve Any Two Of The Following** | **3 ×2 = 6** | | | |
| | a. | What are the different types of learning in ML | CO 1 | PO1 | BL 1 | 3 |
| | b. | Definition of ML and only list out any 5 applications of ML | CO 2 | PO2 | BL 2 | 3 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | c. | Explain the simple linear regression and multiple linear regression with formula . | CO 2 | PO1 | BL 2 | 3 |
| | d. | Calculate the Entropy of given dataset to check purity | CO 2 | PO1 | BL 2 | 3 |

| Day | outlook | temperature | humidity | wind | Decision |
|---|---|---|---|---|---|
| 1 | sunny | hot | high | weak | No |
| 2 | sunny | hot | high | strong | No |
| 3 | overcast | hot | high | weak | Yes |
| 4 | rainfall | mild | high | weak | Yes |
| 5 | rainfall | cool | normal | weak | Yes |
| 6 | rainfall | cool | normal | strong | No |
| 7 | overcast | cool | normal | wtrong | Yes |
| 8 | sunny | mild | high | weak | No |
| 9 | sunny | cool | normal | weak | Yes |
| 10 | rainfall | mild | normal | weak | Yes |
| 11 | sunny | mild | normal | strong | Yes |
| 12 | overcast | mild | high | strong | Yes |
| 13 | overcast | hot | normal | weak | Yes |
| 14 | rainfall | mild | high | strong | No |

Entropy(S)= -{ P(Yes)*$\log_2$ P(Yes) + P(No)*$\log_2$ P(No) }

e. Problem Statemet: Usig K-NN Algorithm, Predict the class of a new instance
X={ Maths=6,CS=8 } from given dataset .
Given: K=3
Students Dataset for Pass and fail Result

| NAME | MATHS | CS | RESULT |
|---|---|---|---|
| Sachin | 4 | 3 | F |
| Rohit | 6 | 7 | P |
| Rahul | 7 | 8 | P |
| Pooja | 5 | 5 | F |
| Geeta | 8 | 8 | P |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | | **Solve Any two of the following** | 5 ×2 = 10 | | | |
| | a. | Explain Decision Tree Classification Algorithm | CO 3 | PO2 | BL 2 | 5 |
| | b. | Explain Support Vector Machine Algorithm | CO 3 | PO1 | BL 2 | 5 |

c. **Consider the given Dataset ,Apply Naive Baye's Algorithm and Predict that if a fruit has the following properties then which type of the fruit it is**
**Fruit = {Yellow , Sweet ,long}**

**Frequency Table:**

| Fruit | Yellow | Sweet | Long | Total |
|---|---|---|---|---|
| Mango | 350 | 450 | 0 | 650 |
| Banana | 400 | 300 | 350 | 400 |
| Others | 50 | 100 | 50 | 150 |
| Total | 800 | 850 | 400 | 1200 |

CO 3 | PO3 | BL 3 | 5

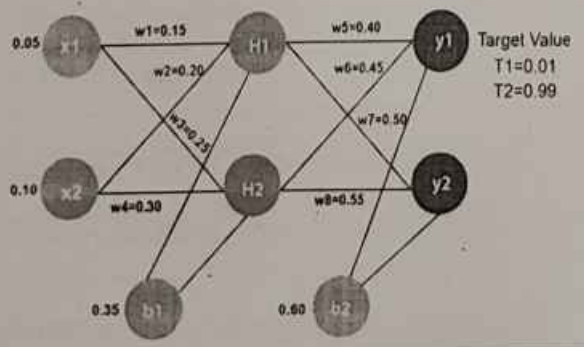
d. **Solve the given problem with KNN(K-Nearest Neighbor) Algorithm.**

**X={Angelina with Age=5 , Gender =Female} Predict the Class :**
**Which sport Angelina like?**
**Given K=3**

| Name | Age | Gender | Sports |
|---|---|---|---|
| AJAY | 32 | M | Football |
| MARK | 40 | M | Neihter |
| SARA | 16 | F | Cricket |
| ZAIRA | 34 | F | Cricket |
| SACHIN | 55 | M | Neither |
| RAHUL | 40 | M | Cricket |
| POOJA | 20 | F | Neither |
| SMITH | 15 | M | Cricket |
| LAXMI | 55 | F | Football |
| MICHAEL | 15 | M | Football |

CO 3 | PO3 | BL 3 | 5

e. What is the values of H1 after weighted sum & after applying sigmoid function as activation function what will be the value of H1 out




CO 3 | PO3 | BL 3 | 5

********** END **********

Sanjeevan Group Of Institutions, Panhala
Degree Engg.

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Sanjeevan Group Of Institutions
Somwarpeth, Panhala, Tal. Panh
Dist. Kolhapur - 416 201 (M.S.)

| | |
|---|---|
| | **DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE.** |
| | **Sanjeevan Engineering & Technology Institute, Panhala.** |
| | **Department of Computer Science and Engineering** |
| | **MODEL Answer Sheet:Mid Semester Examination 2025** |
| **SEMESTER: VI** | **ACADEMIC YEAR:** 2024-25 |
| **CLASS: T. Y. B. Tech.** | **Time : 3.30 pm To 4.30 pm** |
| **DAY & DATE: Thursday,15/05/2025** | **Marks: 20** |
| **SUBJECT NAME WITH CODE: BTCOC603 Machine Learning** | |

**Instructions to the Students:**

1. All questions are compulsory
2. Assume suitable data if necessary
3. Use of non-programmable calculator is allowed

| Question No. | Sub Question | Question | CO | PO | BL | Marks |
|---|---|---|---|---|---|---|
| **1.** | | **Attempt the Following** | **4×1 =4** | | | |
| | a. | Multiple linear regression consist ---<br>a)single IV & single DV b) More than one DV & single IV<br>**c)Single DV & More than one IV** d) All of the Above | CO1 | PO1 | BL1 | 1 |
| | b. | Training dataset is used in ---<br>**a) Supervised** b)Unsupervised<br>c) Reinforcement d)All of the above | CO1 | PO1 | BL1 | 1 |
| | c. | Logistic Regression solve ----------problem<br>**a) Classification** b) Regression<br>c) Both a&b d)None of these | CO1 | PO1 | BL1 | 1 |
| | d. | Hypothesis Space(H) is<br>a) Set of all data points **b) Set of all hypothesis(h)**<br>c) Set of empty Space d) All of the above | CO1 | PO1 | BL1 | 1 |
| **2.** | | **Solve Any Two Of The Following** | **3 ×2 = 6** | | | |
| | a. | What are the different types of learning in ML | CO1 | PO | BL1 | 3 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ANSWER: There are basic Three types of ML<br>a)Supervised Learning- Explanation with example----**1 Mark**<br>b)Unsupervised Learning-Explanation with example-**1 Mark**<br>c)Reinforcement Learning-Explanation with example-**1 Mark** | | 1 | | |
| | b. | Definition of ML & Applications :<br>**Answer:** Machine Learning– Definition ----------**1 Mark**<br>An application of AI that provides systems the ability to automatically learn and improve from experience without being explicitly programmed.<br><br>Applications of ML ----------**2 Marks**<br>a)Prediction of stock market-Weather Prediction<br>b)Cyber Fraud Detection<br>c) Songs TV Show recommendation...etc | CO2 | PO 2 | BL 2 | 3 |
| | c. | Explain Linear Regression – Multiple Linear Regression<br>Answer: Definition Regression----------**1 Mark**<br>Regression :<br>To establish the possible relationship among different variables.<br>Regression is a supervised learning technique which helps in finding the correlation between variables and enables us to predict the continuous<br>Formula : for Linear & Multiple Regression---------- **2 Marks**<br><br>**Linear Regression: Y=mX+C**<br>where,<br>Y= Dependent Variable – Output<br>X= Independent Variable - Input<br>m= coefficient of regression<br>C= Y- Intercept<br>In simple regression there is only one IV & one DV.<br>IV = independent variable<br>DV = dependant variable<br>Example : Sale of ice-cream increases as temperature increases<br><br>**Multiple Regression :** Y=B0+B1X1+B2X2+ …+BnXn+ Error<br>B0 = Y-Intercept<br>Err= Constant<br>Multiple Regression :<br>In simple regression there are more than one IV & one DV.<br>Example : sales of ice-cream increases with rise in temperature and holidays to children.<br>Sales of Amazon increases in Dasara & Diwali. | CO2 | PO 1 | BL 2 | 3 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | | **Solve Any two of the following** | | | **5 ×2 = 10** | |
| | a. | Explain Decision Tree Classification Algorithm | CO3 | PO 1 | BL 2 | 5 |

**Answer:**

Decision Tree Classification Algorithm----------**1 Mark**

- Decision Tree is a Supervised learning technique that can be used for both classification and Regression problems, but mostly it is preferred for solving Classification problems.
- It is a tree-structured classifier,

Where ,
internal nodes = represent the features of a dataset,
branches = represent the decision rules and
each leaf node = represents the outcome in label

- In a Decision tree, there are two nodes, which are the Decision Node and Leaf Node.

----------**2 Marks**

**Decision nodes** are used to make any decision and have multiple branches, whereas
**Leaf nodes** are the output of those decisions and do not contain any further branches.

- The decisions or the test are performed on the basis of features of the given dataset.
- It is a graphical representation for getting all the possible solutions to a problem/decision based on given conditions.
- It is called a decision tree because, similar to a tree, it starts with the root node, which expands on further branches and constructs a tree-like structure.
- In order to build a tree, we use the CART algorithm, which stands for Classification and Regression Tree algorithm.
- A decision tree simply asks a question, and based on the answer (Yes/No), it further split the tree into subtrees.
- Below diagram explains the general structure of a Decision Tree

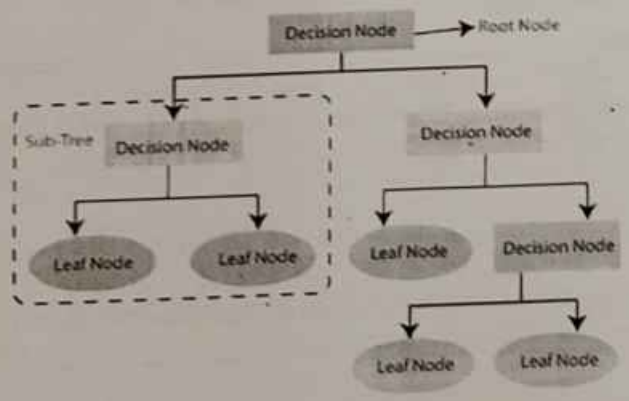
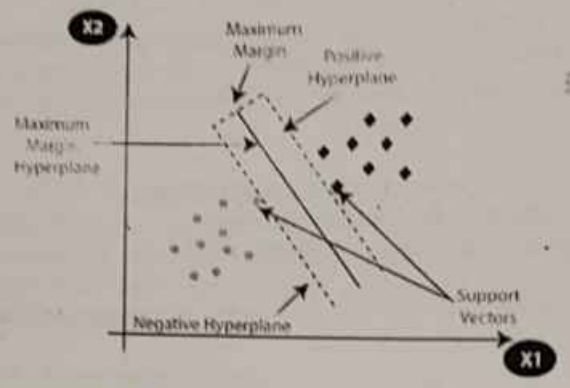


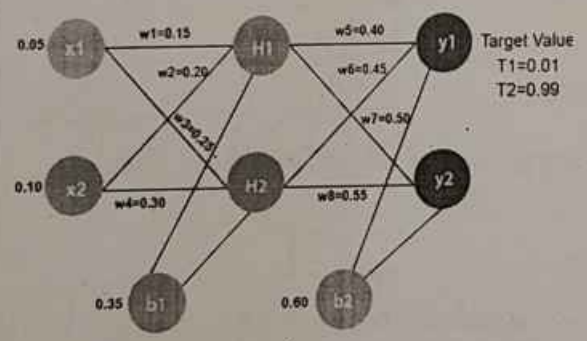

Diagram ----------**2 Marks**

| | | | | | | |
|---|---|---|---|---|---|---|
| | b. | Explain Support Vector Machine Algorithm .<br>**Answer:**<br>**SVM – Digram** **.....2 Marks**<br>  <br><br>**SVM – Explanation .....3 Marks**<br>• Support Vector Machine or SVM is one of the most popular Supervised Learning algorithms,which is used for Classification as well as Regression problems.<br>• The goal of the SVM algorithm is to create the best line or **decision boundary** that can segregate n-dimensional space into classes so that we can easily put the new data point in the correct category in the future. This best decision boundary is called a **hyperplane.**<br>• **Margin- Max Margins with support vectors**<br>• **Kernels: used to transform non linearity to linear one** | CO3 | PO1 | BL 2 | 5 |
| | c. | **Consider the given Dataset ,Apply Naive Baye's Algorithm and Predict that if a fruit has the following properties then which type of the fruit it is**<br>**Fruit = {Yellow , Sweet ,long}**<br>**Frequency Table:**<br>Fruit \| Yellow \| Sweet \| Long \| Total<br>Mango \| 350 \| 450 \| 0 \| 650<br>Banana \| 400 \| 300 \| 350 \| 400<br>Others \| 50 \| 100 \| 50 \| 150<br>Total \| 800 \| 850 \| 400 \| 1200 | CO3 | PO3 | BL 3 | 5 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | d. | **Solve the given problem with KNN(K-Nearest Neighbor) Algorithm.**<br><br>**X={Angelina with Age=5 , Gender =Female} Predict the Class :**<br>**Which sport Angelina like?**<br>**Given K=3** | CO3 | PO3 | BL3 | 5 |

| Name | Age | Gender | Sports |
|---|---|---|---|
| AJAY | 32 | M | Football |
| MARK | 40 | M | Neihter |
| SARA | 16 | F | Cricket |
| ZAIRA | 34 | F | Cricket |
| SACHIN | 55 | M | Neither |
| RAHUL | 40 | M | Cricket |
| POOJA | 20 | F | Neither |
| SMITH | 15 | M | Cricket |
| LAXMI | 55 | F | Football |
| MICHAEL | 15 | M | Football |

| | | | | | | |
|---|---|---|---|---|---|---|
| | e. | What is the values of H1 after weighted sum & after applying sigmoid function as activation function what will be the value of H1 out | CO3 | PO3 | BL3 | 5 |




**Answer:**

**Here's how we calculate the total net input for $h_1$:**

$$net_{h1} = w_1 * i_1 + w_2 * i_2 + b_1 * 1$$

$$net_{h1} = 0.15 * 0.05 + 0.2 * 0.1 + 0.35 * 1 = 0.3775$$

We then squash it using the logistic function to get the output of $h_1$:

$$out_{h1} = \frac{1}{1+e^{-net_{h1}}} = \frac{1}{1+e^{-0.3775}} = 0.593269992$$

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Dist. Kolhapur - 416 201 (M.S.)

(1)

HOLY- WOOD ACADEMY'S

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Sanjeevan Knowledge City, Dist. Kolhapur. Pin.416 201

Name of the Student : Pranavi Subhash Patil

Class : BE (Final year) Roll No. : 06

Subject : Big Data Date : 27/09/2024

Language of Answer English.

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total | out of | Examiner's Sign. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Marks obtainted | | | | | | | | | | | 20 | 20 | |

| Main Answersheet + No. of Supplement = Total |
|---|
| 01 + 1 = 2 |

Supervisor's Signature

Q1.

a. d.

b. b.

c. d.

d. c.

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Sanjeevan Group Of Institutions, Panhala Degree Engg.

Q2.

c. ⊛ YARN :-

- YARN Acronym for " Yet Another Resource Negotiator"
- YARN it is a Next version of Hadoop
- Which is a core component of Hadoop.
- Resource manager & Job scheduling are the technologies which is used in YARN.
- It Designed to manage & allocates the resources ( like CPU & memory ) Across the computing resources.
- Which is allocate the resource to Job.

* key components :-

- In YARN Here are some key components which are follows.

1) Resource Manager :-

- The resource manager it a " main boss" to for clustering. Which is allocates the resources like (CPU & memory.
- Also it is used to manage the resources.

2) Node manager :-

- Node manager is a " Worker " it can take request like read / write from resource manager.

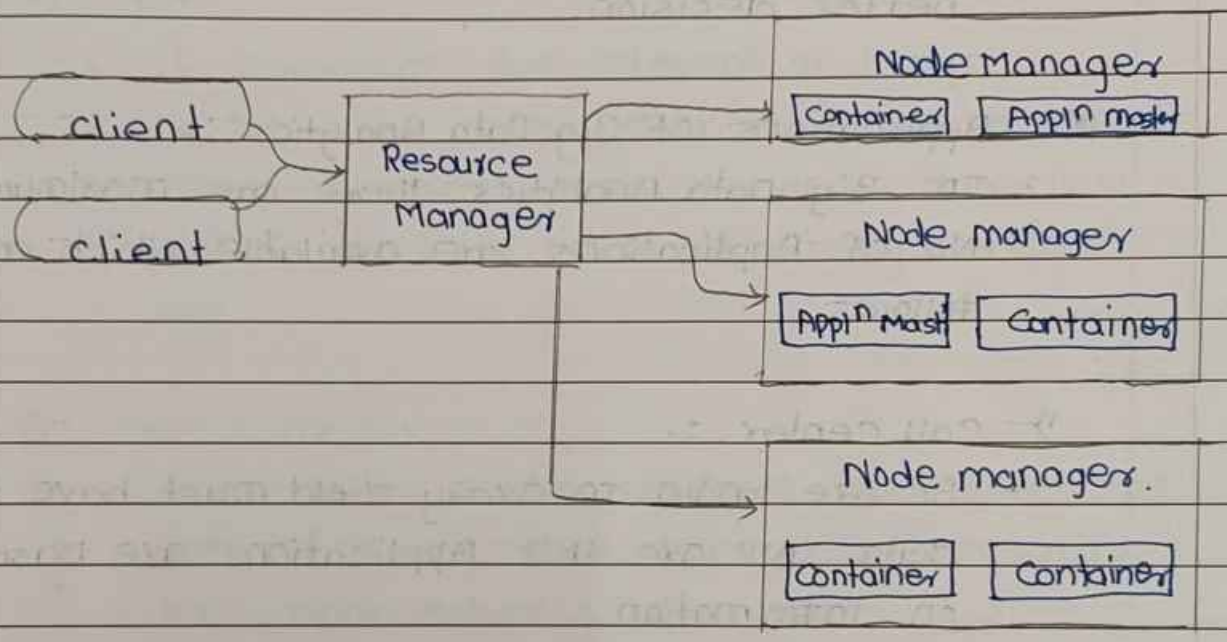
3) Application master :-

- Application master is a " project manager" Which request resources from resource manager & ensure that all task running correctly.

4) Container :-

- Container is a 'resource box' which is used to run a task.
- Each task has it's own container
- Store the data about all the Jobs.
- Which is pretered by a Node manager.

* Architecture of YARN.




⊛ Fig :- YARN Architecture ⊛

Q2.

b.

⊛ Big Data Analytics :-

- Big Data Analytics it is a process of examining the large set of data to find Patterns, trends, unknown. Corelation, customer performance & insights.
- It will be help for organization to make better decision.

⊛ Applications of Big Data Analytics :-

- In Big Data Analytics there are maximum No. of Applications are available which are as follows.

1) Call center :-

- As we know in every field must have to data. All are this Applications are based on information.
- In Call center uses a big data in the way of if we need or searching a loan then from different bank we get the call to take loan & like that.

2) Heathcare :-

- In Heathcare Also we use the big data to find the diagnosis diseases patient to give them correct medicines.

3) Entertainment :-

- We got the recommendation items on social media platform.
- They collect data from diff^t website, & Analyze that data then they recommend us some shows, which we are going to searching.

4) IoT :-

- It Acronym for internet of things.
- In IoT uses a big data in a smart objects like in smart home devices, there is a lot of need to be make luxurey device to us.

5) Social media :-

- from social media platform the collect the data & using that data they recoommend us, what Actually we want.

6) Recommendation system :-

3

Q3.

a. * Big Data Analytics :-

- Big data Analytics it is the process of examining the Large set of data to finds Patterns, trends, unknown- corelation, customer performance & insights.
- Big data Analytics is help to organizations to make better decision in organizations.
- Big Data Analytics involves collecting, Storing, Cleaning & Analyzing the Data.
- For this operation big data uses deep Learning.

* HDFS :-

- HDFS is Acronym for 'Hadoop distributed file system'.
- Which is a core component of Hadoop.
- HDFS is designed for Large amount of data which is distributed Across the different / many computer machine.
- The HDFS specially designed for to spiting or breaking down data into different blocks, & distributed those blocks across the Machine.

* In HDFS Here are some key components of Hadoop distributed file system.

1) Data Block :-

- The Data Block plays a Crucial role in HDFS where it store the data in block where we can define the table.

2) Replication :-

- Replication it is the process where it ensure that 'Copied all the block" across the different Machine to Availability & fault tolerance.

3) NameNode & DataNode :-

- Namenode :-
  - NameNode it is 'master node' where it can store the data.
  - Namenode contains the meta data for (Name of file & Location of Job) this data can be stored on Namenode.

- DataNode :-
  - Data Node is a 'Worker' where we can perform the read / write operation
  - And here is stored Actual Data.

4) Fault tolerance :-

- Fault tolerance it is the process of when dataNode fails, HDFS can Automatically Recover the data from Replicate which from one existing ones.

* Architecture of HDFS.

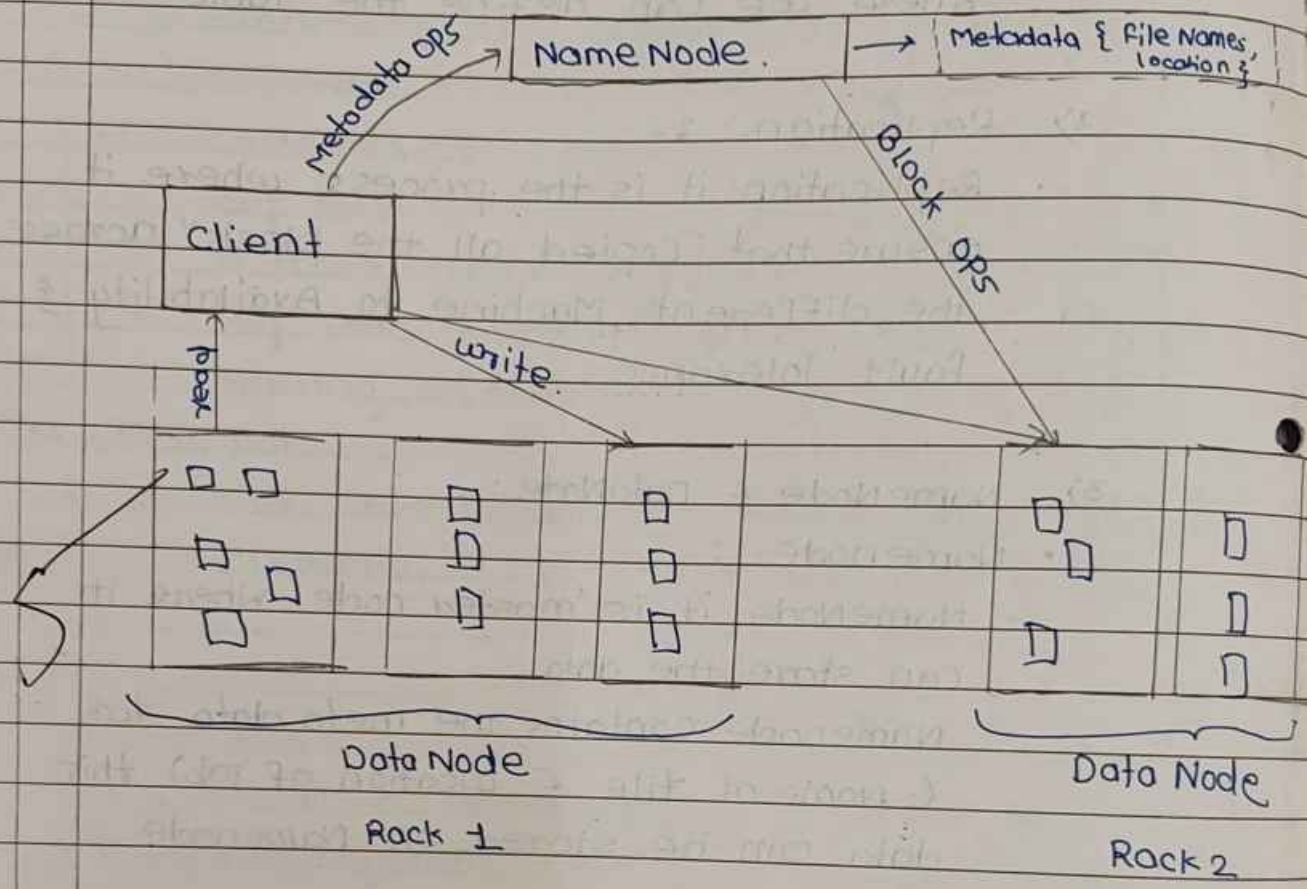



Fig : Architecture of HDFS

DTE Code : EN6315

BOLYWOOD ACADEMY'S

# SANJEEVAN

GROUP OF INSTITUTIONS, PANHALA

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Permanent Affiliated by Dr. Babasaheb Ambedkar Technological University, Raigad
Affiliated to Shivaji University, Kolhapur, MS 0111 - Mangalwar

Date:- 25-10-2024.

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### MSE Exam
### SY B Attendance Sheet

Subject:- DS

| Roll No | Student Name | Sign | |
|---|---|---|---|
| 1 | ADAKE ADITI VIJAY | Adake | 10 |
| 2 | BHANSE SATYAJEET SAMBHAJI | Bhanse | 14 |
| 3 | BHOSALE GAURI RANJIT | Bhosale | 14 |
| 4 | BHOSALE MUKTA SANTOSH | | AB |
| 5 | BHOSALE SAKSHI SHARAD | Bhosale | 15 |
| 6 | BUDAKE SANDESH CHANDRAKANT | SCB | 8 |
| 7 | CHAVAN PRUTHVIRAJ GOVIND | [illegible] | 19 |
| 8 | CHOUGALE PRANAV BABASO | [illegible] | 20 |
| 9 | CHOUGULE AFAN USMAN | Chougule | 12 |
| 10 | CHOUGULE MOIN USMAN | [illegible] | 15 |
| 11 | DHAVAN VIBHAVARI SURESH | Dhavan | 19 |
| 12 | GAIKWAD RUTUJA ASHOK | Rutuja | 15 |
| 13 | JADHAV ANIRUDHA DHANANJAY | Anuy | 8 |
| 14 | JADHAV YASH DADASO | Yash | 11 |
| 15 | JEKEKURE BALIKA SIDRAM | Balika | 15 |
| 16 | KAMBLE KETAN KERBA | | AB |
| 17 | KAMBLE RASIKA ANIL | Rasika | 18 |
| 18 | KAMBLE TEJAS HINDURAO | | AB |
| 19 | KATPURE SWATI SHRIKANT | Swati | 18 |
| 20 | KHANDEKAR MUKUND NARAYAN | [illegible] | 19 |
| 21 | KHAROSHE SAMRUDHI VITTHAL | Samrudhi | 13 |
| 22 | KOLI PRANITA KRISHNAT | Koli | 16 |
| 23 | KULKARNI SEJAL GOPAL | Sejal | 15 |
| 24 | LAD SUHANI BHASKAR | [illegible] | 15 |

| | | | |
|---|---|---|---|
| 25 | NAIK MRUNALI SANJAY | | 14 |
| 26 | PAKHARE MRUDULA PRADEEP | | 13 |
| 27 | PATIL GAYATRI GAJANAN | | 18 |
| 28 | PATIL GAYATRI PRADHAN | | 16 |
| 29 | PATIL HARSHVARDHAN SARJERAO | | 9 |
| 30 | PATIL LOBHAS ANAND | | 14 |
| 31 | PATIL PAVAN VILAS | | 9 |
| 32 | PATIL SWARUP SARDAR | | 15 |
| 33 | PAWAR OMKAR DNYANESHWAR | | 14 |
| 34 | PORLEKAR PRASAD SANTOSH | | 16 |
| 35 | POWAR SONALI VIJAYKUMAR | | 11 |
| 36 | RAWOOL SHIVRAM LADAJI | | 14 |
| 37 | SALAVI VIGHANESH DHANAJI | | 16 |
| 38 | SARDESAI OMKAR PRADIP | | 15 |
| 39 | SODAGE PRATHAMESH SUNIL | | 15 |
| 40 | SUTAR SAMRUDDHI MADHUKAR | | 20 |
| 41 | SUTAR SWARAJ NAMDEV | | |
| 42 | TOUNDKAR HARSHVARDHAN RAJENDRA | | |
| 43 | ZERE KARAN SURESH | | |
| 44 | GHATAGE ANISHA POPAT | | 10 |

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Supervisor 25/10/24

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*Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance*

## Electrical Department Academic Calendar for A.Y. 2024-2025 (Odd Semester)

| Month | Week Days | | | | | | | working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| AUGUST | | | | 1 | 2 | 3 | 4 | 2 | 1- Admission Reporting,Commencement of Classes |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 6 | |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 4 | *15-Independence Day,Parsi New Year* |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 6 | |
| | 26 | 27 | 28 | 29 | 30 | 31 | | 5 | 29-30-CA-1 |
| SEPTEMBER | | | | | | | 1 | 0 | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | *7- Ganesh Chaturthi* |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 6 | *15- Engineers Day* |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 4 | *16. Eid E Milad* |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 6 | 26-28-Mid Semester Exam |
| | 30 | | | | | | | 1 | |
| OCTOBER | | 1 | 2 | 3 | 4 | 5 | 6 | 3 | *2. Mahatma Gandhi Jayanti* |
| | | 8 | 9 | 10 | 11 | 12 | 13 | 5 | *12. Dasara* |
| | | 15 | 16 | 17 | 18 | 19 | 20 | 5 | |
| | | 22 | 23 | 24 | 25 | 26 | 27 | 6 | |
| | | 29 | 30 | 31 | | | | 4 | |
| NOVEMBER | | | | | 1 | 2 | 3 | 0 | *1.Diwali (Laxmi Pujan) 2. Diwali (Bali Pratipada)* |
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 6 | |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 4 | *15.Guru Nanak Jayanti.* |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 5 | 22. End of Classes ,22-23- CA-2 |
| | 25 | 26 | 27 | 28 | 29 | 30 | | | 25.Prac.Exam./Mini proj. |
| DECEMBER | | | | | | | 1 | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 2-26-End Semester Exam |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | | |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | | 24 Vacation toFaculty & Tech.Staff . 25. Christmus |
| | 30 | 31 | | | | | | | 27 Dec.24-20 Jan 25- Field Training/Internship/Ind.Training |

| | | | |
|---|---|---|---|
| Govt. Holiday | | CA/MSE/Pract. Exam/ESE | 83 |
| Activities | | Institute Holiday | |
| | | Vacation toFaculty & Tech.Staff | |
| | | Departmental Extra curricular activity (Workshop/Ind.Visit/FDP/Guest Lect.) | |
| | | Parents Meet | |

21 st January 2025 Commencement of Classe for Next Semester

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.

2. In align with this, each department shall prepare their departmental calendar to reflect departmental .....activities, Industrial Visits and Student Intrenships etc.

Dean Academics

Sanjeevan Group of Institutions Dept. of Electrical Engineering (Degree)

Principal

DTE Code : [illegible]

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## Electrical Departmental Calendar for A.Y. 2024-2025 (Even Semester)

| Month | Week Days | | | | | | | working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| FEBRUARY | | | | | | 1 | 2 | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | 05 -27 February Winter 2024 End Sem Exam |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | 12- Sant Rohidas Jayanti |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | 19-Chha. Shivaji Maharaj Jayanti- 23 Sant Gadge Baba Jayanti |
| | 24 | 25 | 26 | 27 | 28 | | | | 26-Mahashivratri ,27-Marathi Bhasha din,28- Science Day |
| MARCH | | | | | | 1 | 2 | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | 3-Commencement of Classes,5-9 Sports, 8-Mahila Din |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | 12 &13- Annual Social Gathering, 14- Dhulivandan |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | |
| | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | 28- PARIKRAMA,30 -Gudhi Padva |
| | 31 | | | | | | | | 31-Ramjan ID(ID-UI-FITRA) |
| APRIL | | 1 | 2 | 3 | 4 | 5 | 6 | | 6-Shri Ram Navami |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | | 10-Shri Mahavir Jayanti(Janmkalyan) ,11-12 CA-1 |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | 14-Dr.Babasaheb Ambedkar Jayanti,18-Good Friday, |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | | |
| | 28 | 29 | 30 | | | | | | 30-Akshay Trutiya, Mahatma Basaweshwar jayanti |
| MAY | | | | 1 | 2 | 3 | 4 | | 1- Maharashtra Din, 2-7 Mid Semester Exam |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | | |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | | 12-Buddha Pournima, 14-Chha. Sambhajiraje Jayanti |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | | |
| | 26 | 27 | 28 | 29 | 30 | 31 | | | 28- Swa. Savarkar Jayanti . 31-Punya Ahilyabai Holkar Jayanti |
| JUNE | | | | | | | 1 | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 5-World Env.Day,7- Bakri Id (Id-uz-zuha) |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | 9-Chha. Shiv Rajyabhishek Din |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | | |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | | 18-20-CA-2, 20 End of Classes ,21-23 Pract/Sem/Mini Project Exam, 26-Chh.Shahu Maharaj Jayanti24june-03.24 June to 30 July - vacation slot |
| | 30 | | | | | | | | |
| Govt. Holiday | | | CA/MSE/Pract. Exam/ESE | | | | | | 06 July - Mohram, 26July 2025 Result Declaration, |
| Activities | | | Institute Holiday | | | | | | 01 Aug-2025 Commencement of Classes for Next Semester |

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.

2. In align with this, each department shall prepare their departmental calendar to reflect departmental .....activities, Industrial Visits and Student Intrenships etc.

Dean Academics

SANJEEVAN GROUP OF INSTITUTIONS ★ PANHALA ★ Dept. of Electrical Engineering (Degree)

Principal

Name → shivani Tanaji Pohl  Roll No → 60

| | |
|---|---|
| | **DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.** |
| | **Sanjeevan Engineering & Technology Institute, Panhala** |
| | ***Department of Electrical Engineering*** |
| | **CA-I** |
| | SEMESTER: IV$^{th}$ — ACADEMIC YEAR:2024-25 |
| | NAME Of STUDENT: — ROLL No.: |
| | CLASS: SE Electrical — MARKS: 10 |
| | DAY & DATE : |
| | SUBJECT: Advanced Renewable Energy Sources |

09/10

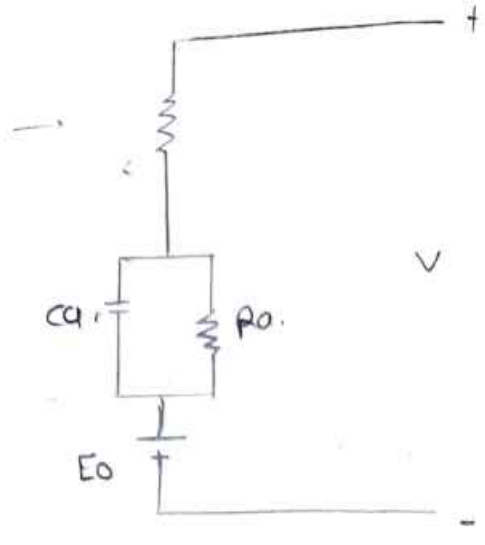
**INSTRUCTIONS:**

1) All questions are compulsory.
2) Q.No. 1 to 4 are objective (1marks each) and Q.No. 5 & 6 are descriptive (3 marks each)
3) Circle on the correct answer for objective questions. Multiple circles or ticks are not allowed and considered as zero marks.

| Q. No. | Questions | CO's | Mark |
|---|---|---|---|
| 1. | Which of the following is non renewable resource?<br>A) Coal<br>B) Solar<br>C) Geothermal<br>D) Tidal | CO 1 | 1 |
| 2. | Which of the following is not a non-conventional energy source?<br>A) Solar<br>B) Tidal<br>C) Geothermal<br>D) Coal | CO 1 | 1 |
| 3. | Which of the following is not an advantage of renewable energy?<br>A) Renewable energy is modular in nature.<br>B) Renewable energy is available in limited region.<br>C) Renewable energy does not need elaborate transport.<br>D) Renewable energy is environmental friendly. | CO 1 | 1 |
| 4. | Renewable source of energy is<br>A) Coal<br>B) Petroleum<br>C) Plants<br>D) Uranium | CO 1 | 1 |
| 5. | Explain equivalent circuit diagram along with I-V characteristics of fuel cell. | CO 1 | 3 |
| 6. | Explain Proton Exchange Membrane (PEM) fuel cell in detail. | CO 1 | 3 |

5]

prot

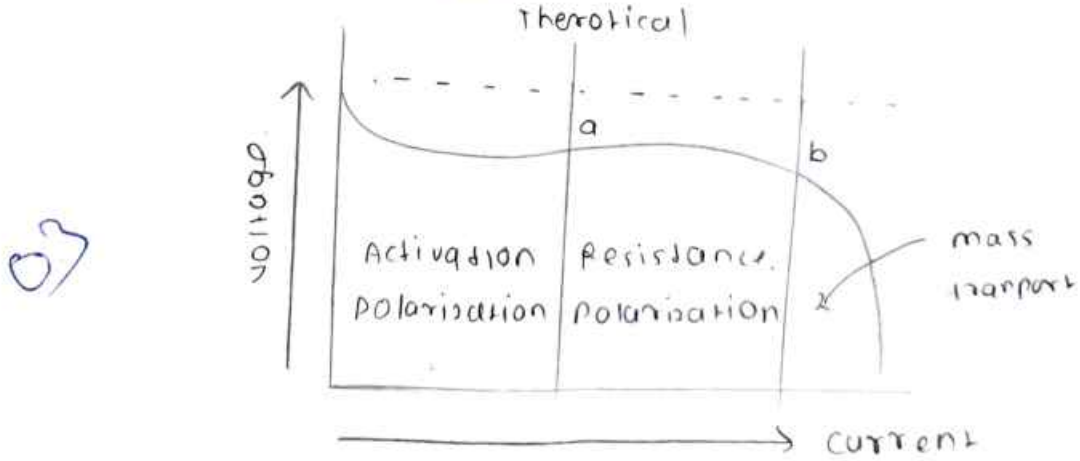



→ equivalent ckt

internal Resistance :- The internal resistance due to losses are represent this losses is called as ohmic losses.

voltage source :- The voltage source are represent the open ckt vtg fuel cell.

Activation polarization :- The polarization are represent the chemical reaction in the activation polarization.



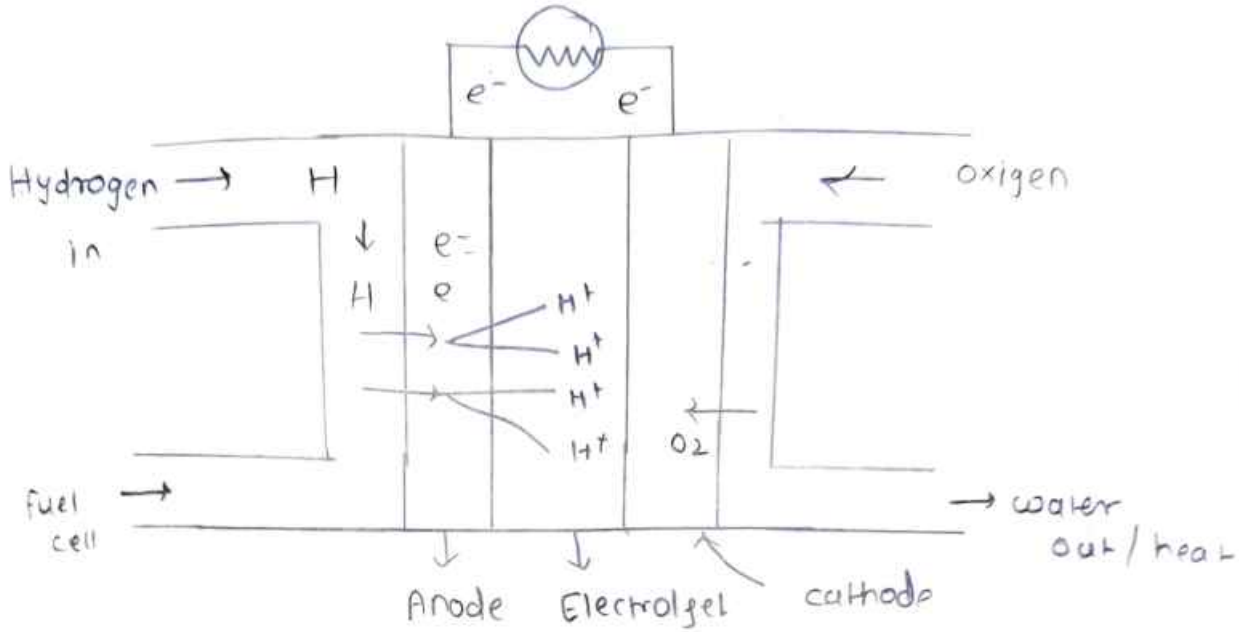

V-I chara

Activation Polarization → The Activation polarization are the the low cln density. It is represent the losses.

Ohmic polarization → The resistance polarization are high cln density it represent the Ohmic losses.

Name → shivani Tanaji Patil
Roll No — 60

# proton Exchange membrance (PEM)




Proton Exchange membrance the fuel is are used in the ~~prot~~ hydrogen.

The proton change membrance is the electrochemical that is convert the hydrogen and oxigen to produced electricity.

The electrolyet are used in proton then the proton are conduct the ~~electro~~ eletric field then the protons are allow the electrons are traval then the electrons are move and the electricity is produced.

03

Advantages → 1] High efficiency 2] Low operating temp 3] fast startup.

Application → 1] It is used to power generation

HOLY- WOOD ACADEMY'S

# SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Sanjeevan Knowledge City, Dist. Kolhapur. Pin.416 201

Name of the Student : Shubham Yuvraj Desai

Class : S.Y. Roll No. : 02

Subject : Date : 16-05-25

Language of Answer English

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total | out of | Examiner's Sign. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Marks obtainted | | | | | | | | | | | | | |

| Main Answersheet + No. of Supplement = Total | |
|---|---|
| 01 + = | |

19/20

Supervisor's Signature

Q1.

a]

→ c] Electromagnetic waves

b]

→ B] Hydro power

c]

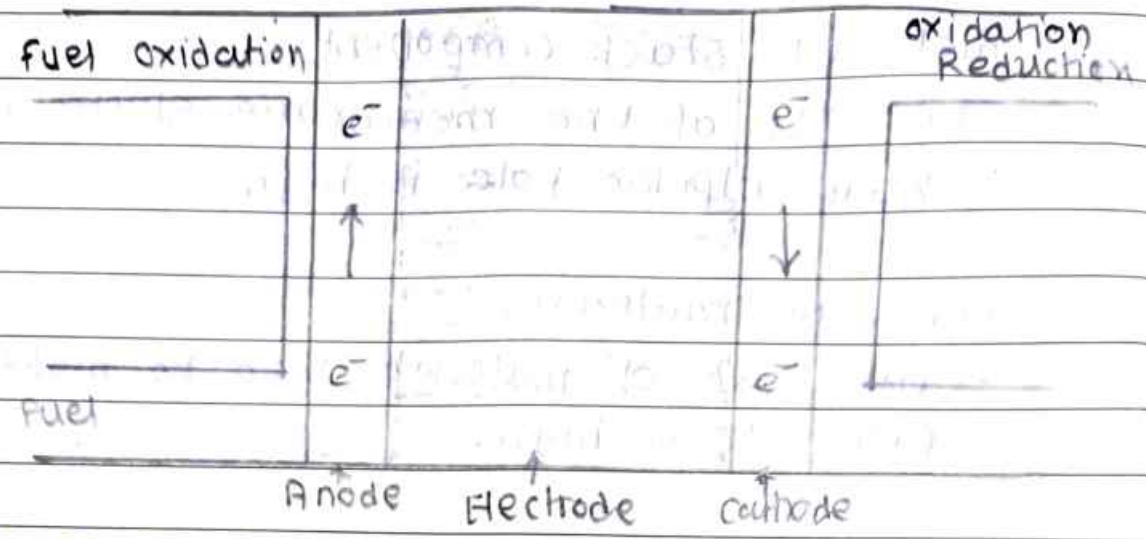
→ c] Uranium. Ok

d]

→ a] They cause deforestation & affect wild life.

Q3

a] Direct methanol FC.




A type of fuel cell that used methanol as fuel to generate electricity.

- fuel - AMFCS use of methanol water mixture at the anode side

- Electrochemical reaction.

  Methanol reacts with water producing carbon dioxide proton & electron

- Proton transport

  Proton ($H^+$) generated at the anode pass through a proton conducting polymer membrane (electrolyte) to the cathode.

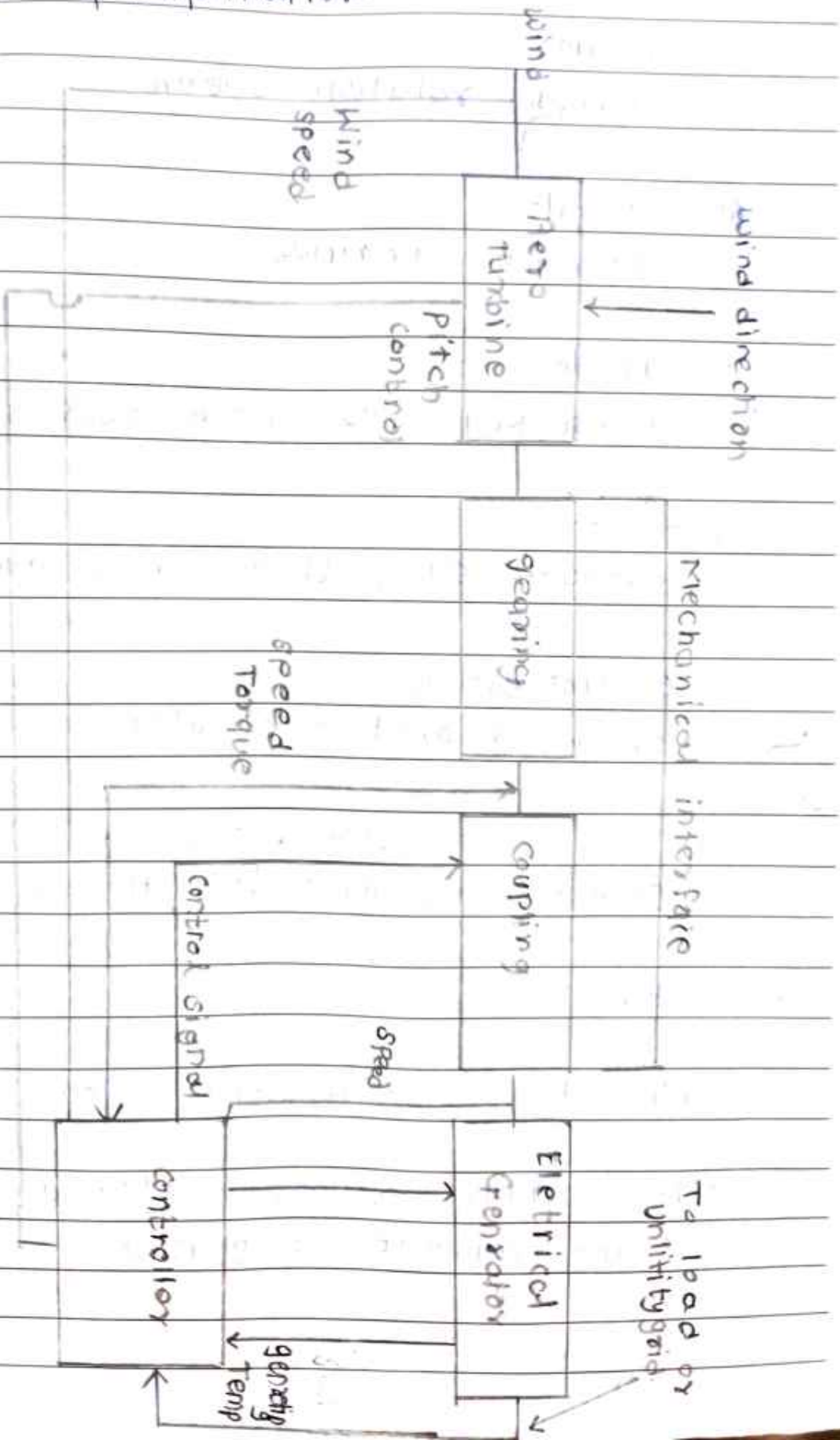
- Oxygen reduction

  At the cathode oxygen reacts with protons & electrons to form water.

• Electricity generation

The flow of electrons through an external ckt creats electricity

b] Diagram & Explination



1] Rotor
Capture wind energy & sping

2] main shaft
connects rotor to gearbox

3] Gearbox
increase rotation speed

4] Generator
produce electricity

5] Nacelle
Howse key parts like gearbox & generator

6] Tower
support every thing above ground

7] control system.
mange & protect operation.

8] power converter & x'mer
prepare electricity for the grid.

* Working

- Wind blows & turns the rotor blades

- The spinning blades rotation a main shaft connected to gearbox.

- The gearbox increases the speed or rotation for the generator

- The generator converts this mechanical energy into electrical energy.

- A power converter changes the Electricity to correct form (AC)

- A step up x'mer increases the Vtg for transmission

- The electricity is then sent to grid to use locally

* Advantages

- ~~No~~ can use land for other purpose
- Clean & renewable energy
- low running cost
- No air pollution.

Disadvantages

- Wind is not always avaliable
- can be noisy
- may harm birds
- High setup cost.

DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.

**Sanjeevan Engineering & Technology Institute, Panhala**

***Department of Electrical Engineering***

CA-I

SEMESTER: VI$^{th}$ ACADEMIC YEAR:2024-25

NAME Of STUDENT: Sanika Bhikaji Pawar ROLL No.: 47

CLASS: TE Electrical MARKS: 10

DAY & DATE :

SUBJECT: Switchgear & Protection

08/10

**INSTRUCTIONS:**

1) All questions are compulsory.
2) Q.No. 1 to 4 are objective (1marks each) and Q.No. 5 & 6 are descriptive (3 marks each)
3) Circle on the correct answer for objective questions. Multiple circles or ticks are not allowed and considered as zero marks.

| Q. No. | Questions | CO's | Mark |
|---|---|---|---|
| 1. | Short Circuit current are due to.....<br>A) Single phase to ground fault<br>B) Phase to Phase fault<br>C) Two phase to ground fault<br>D) Three phase fault<br>E) Any of above | CO 1 | 1 |
| 2. | The Actuating quantity for the relay may be.....<br>A) Magnitude<br>B) Frequency<br>C) Phase angle<br>D) Any of these | CO 1 | 1 |
| 3. | The protective relay is provided to.....<br>A) Provide additional safety to the circuit breaker in its operation<br>B) Close the contact when the actuating quantity attains a certain predetermined value.<br>C) Limit the arcing current during the circuit breaker operation.<br>D) Earth & stray voltage. | CO 1 | 1 |
| 4. | What is the purpose of back up protection?<br>A) To increase the speed<br>B) To increase the reach<br>C) To leave no blind spot<br>D) To guard against failure of primary | CO 1 | 1 |
| 5. | Write all essential qualities of relay to become it as a good kind of relay. | CO 1 | 3 |
| 6. | Explain induction disc type relay. (Watt Hour Meter structure) | CO 1 | 3 |

5 essential qualities. of relay.

1) Selectivity
2) Sensitivity.
3) Stability.
4) Reliability
5) speed of operation.

1) Selectivity -

In the power system. and switchgear protection require to select the faulty parts in the system. for proper operation required the equipment are used. this are suitable ratings and working in proper way the current value according to required selection of relay.

2) Sensitivity -

In the operation of electrical equipment in the switchgear. the sensitivity required the high. and accuracy for the proper operation. the equipment is more sensitive to use and values and accurate. time to operate the relay.

3) stability -

In the operation of switchgear protection the operation of relay become stable. In the case of fault going on. but the after the fault. the system work. properly and stable. the relay is required to work. in time. for stable operation.

Diability

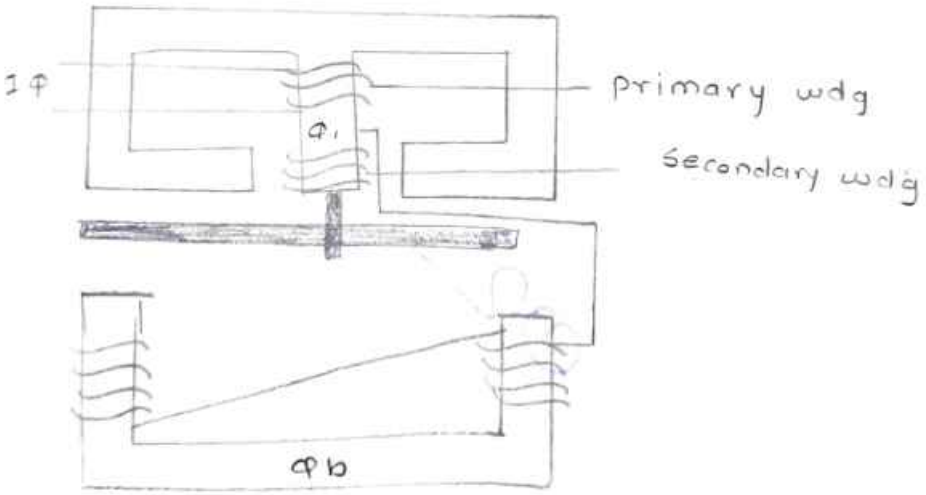
The system operation of relay to Reliable the use the components rating and Which type of Relay is use in this is reliablelity is required for operation of Relay require more Reliability.

5) speed of operation -

In the system Normal condition works properly but in fault condition any fault occurs in the system. Relay operate as quick as possible to proper and safety operation.

6. Watt hour meter structure.

circuit diagram -




construction -

- The series coil is connected with load in series. the magnetic flux is proportional to the current.
- The shunt coil is connected across the voltage source the magnetic flux is proportional to the voltage.
- The disc ~~connecto~~ placed in the magnetic field. the disc is rotate because of two coil Interaction.

5 essential -

Working -

- The current flow through the meter. the ~~series~~ current coil generate magnetic field is proportional to the load.

- the voltage coil generate magnetic field is proportional to the voltage.

- the intraction in coil because disc is rotate and because of eddy current.

- this disc is rotate this speed proportional to the power..

- the rotation of the disc proportional to the energy consumption

Applications -

① smart grid

② biling system.

02

HOLY- WOOD ACADEMY'S

SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Sanjeevan Knowledge City, Dist. Kolhapur. Pin.416 201

Name of the Student : Rutuja Sandip Pilankar.

Class : T.Y. Roll No. : 28

Subject : SGP Date : 15/05/2025.

Language of Answer

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total | out of | Examiner's Sign. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Marks obtainted | | | | | | | | | | | | | |

| Main Answersheet + No. of Supplement = Total |
|---|
| 01 + = |

14/20

Supervisor's Signature

Q.1.

a

→ a] Interrupting fault crt.

b]

→ a] operates based on crt only.

c]

→ d] heating effect of electrodes.

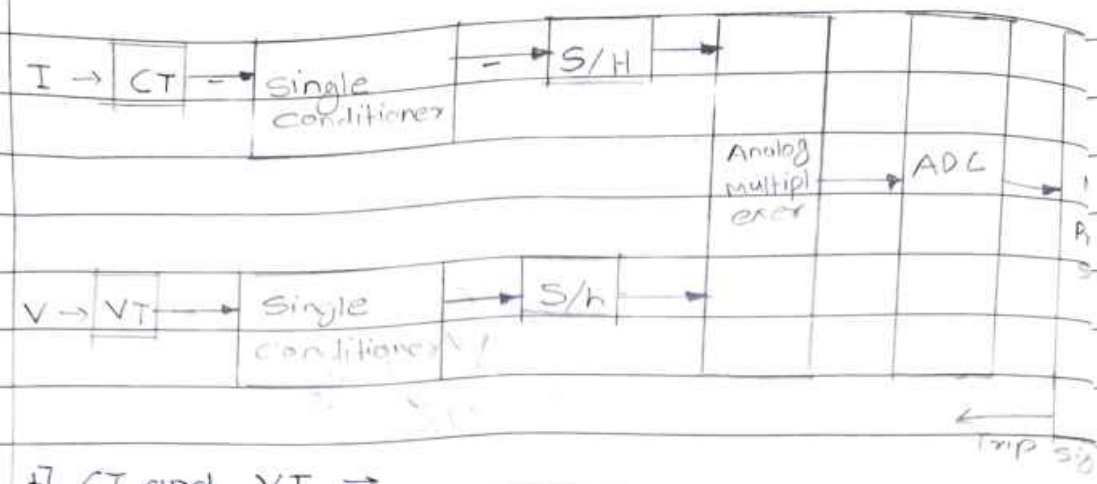
d]

→ b] extinguish the arc.

01

Q.3.

a] explain basic Numerical Relay in detail.




1] CT and VT →

- The CT is a current $x^{mer}$ and VT is a Voltage $x^{mer}$.

2] Single Conditioner →

- This is a reduce noise, harmonics and adjust signal.

3] S/H (Sample and hold).

- Capture the value to analog signal and hold stead conversion.

4]. Analog multiplexer. →

- Take the multiple I/P and Fed to one by one to ADC.

5]. ADC

- ADC (Analog and digital converter).
- Convert to the Analog to digital signal.

6]. Microprocessor. →

- Mp is a brain of a numerical system.
- detect the Fault.
- receive the o/p value and then. Calculate the impedance.

7]. Trip signal. →.

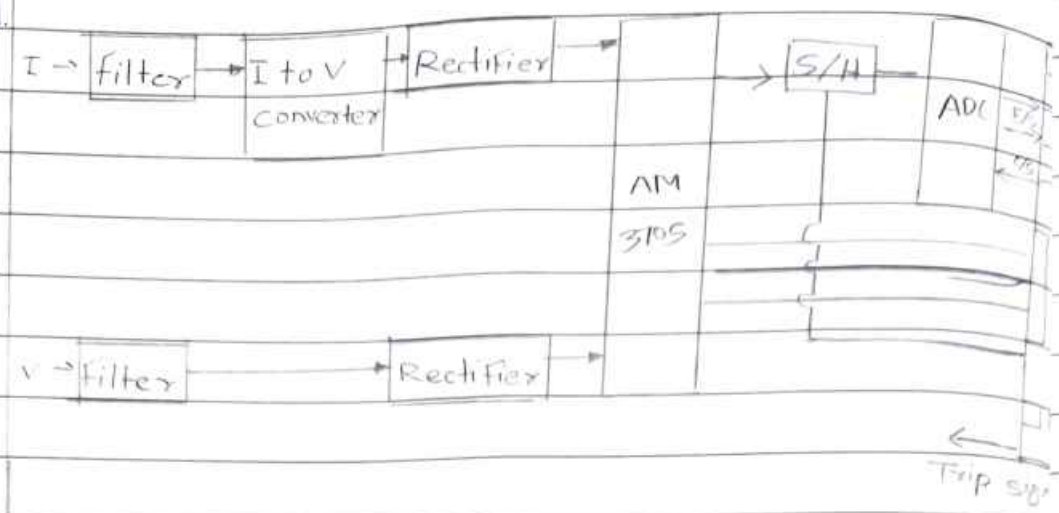
- Trip signal as work as detect the Fault and send to the ckt breaker.

Working. →.

- First the crt xmer is a send to thed crt ~~and~~ to single conditioner.
- Single conditioner is a reduce the noise and harmonics as the value.
- Capture the value to analog signal and hold steady conversion.
- Same process are the vtg xmer.
- and this value are send the Analog Multiplexer.
- Analog Multiplexer are take the values and ~~ser~~ one by one send to the ADC.
- ADC is convert this value are analog to digital and send to the mp.
- mp are check the value and gives the it will be send to the Trip signal and this time trip signal are detect the Fault and send to the CB.

05

b]




1] Filter →.
- It is a reduce harmonic, noise and adjus signal.

2] I to V converter. →
- This is a convert current to voltage signal.

3] Rectifier →.
- Rectifier is a convert AC to DC vtg

03

4] Analog multiplexer →
- Take the multiple I/P and fed to one by one to the S/H.

5] S/H. →.
- Capture the value to analog signal and hold steady conversion.

6] ADC →
- It is a Analog to digital converter.

7]. ~~Multiplexer~~. → Microprocessor.

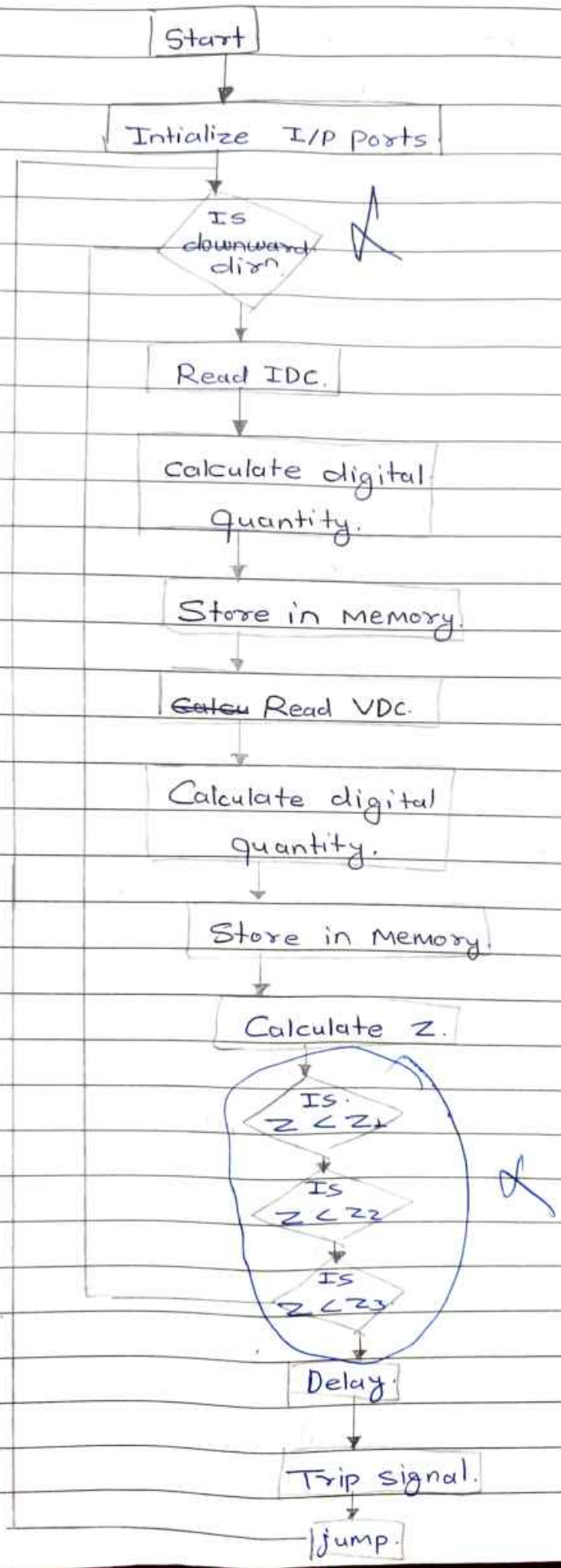
- Mp is a brain of a impedance relay.
- receive the I/P value and then calculate the impedance.

8]. Trip signal. →

- Detect the Fault and sends to the ckt breaker.

Working →.

- Filter is a reduce the harmonics and adjust the signal. and send to the I to V converter.
- converter is a convert crt to the vtg. to value.
- Rectifire are a convert the AC crt ~~at~~ to the DC crt.
- Rectifire as a sent ~~signal~~ DC crt to the AM.
- AM is a take the multiple I/P and Fed to one by one to the S/H.
- S/H are the capture the value to analog signal and stead conversion.
- ADC are the again convert the Analog to digital signal. and this
- signal send to the Mp.
- Mp are receive the value and calculate the impedance. and seds to the trip signal.
- trip signal are detect the Fault and send to the CB.


Start
Intialize I/P ports
Is downward dirn
Read IDC.
Calculate digital quantity.
Store in memory.
~~Calcu~~ Read VDC.
Calculate digital quantity.
Store in memory.
Calculate Z.
Is Z < Z1
Is Z < Z2
Is Z < Z3
Delay
Trip signal.
jump.

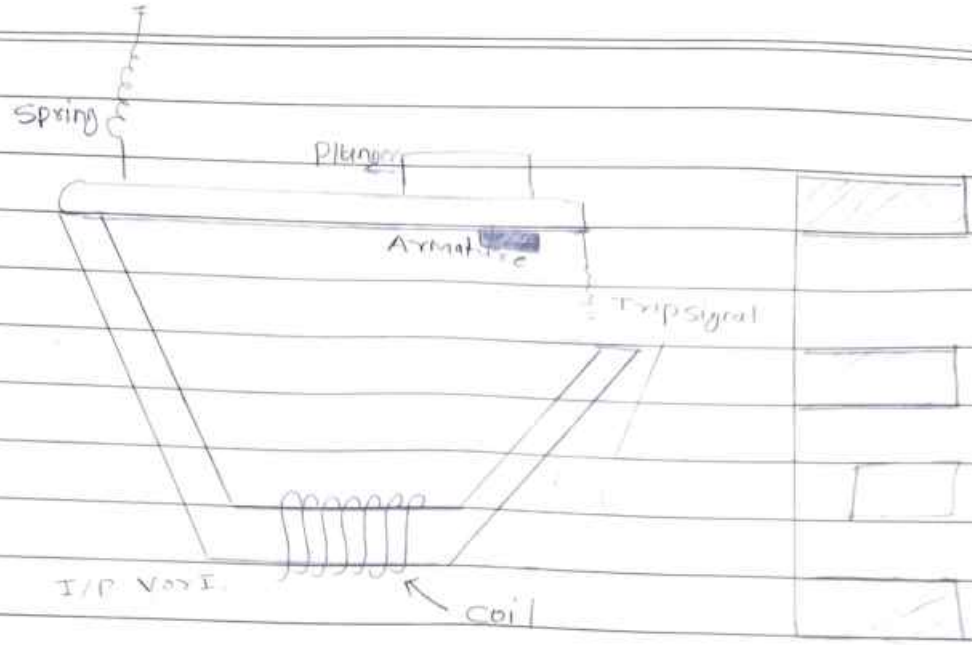
Q.2

a]

| content | electro Mechanical | numerical |
|---|---|---|
| 1] Technology. | Use of Mechanical Movement. | use of electro chemical relay. |
| 2] components. | coil, spring. | ADC, memory. |
| 3] Accuracy. | Moderate | high. |
| 4] Flexibility. | Single | Multiple. |
| 5] Size. | Large | Compact. |
| 6] Cost. | Less | high. |
| 7]. | | |

03

c].




- The V or I are pass the coil and coil through the generatig wdg.
- ~~wd~~ then crt the pass then Magnetic Flux are generating this system.
- and they pass Flux are to the Armature.
- The abnormal system. are this time system are the energised. and that time trip signal are the closed.
- and The system are normal position System is the de-energised and that time trip signal are the open.

• Advantages.
- cost are less.
- less effesiciency.
- low maintaince.

OV

| | |
|---|---|
| | **DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.** |
| | **Sanjeevan Engineering & Technology Institute, Panhala** |
| | ***Department of Electrical Engineering*** |
| | **CA II** |
| | SEMESTER: IV — ACADEMIC YEAR:**2024-25** |
| | NAME OF STUDENT: Aniket Gangaram Kambhar — ROLL NO. 47 |
| | CLASS: S.Y — MARKS: 10 |
| | DAY&DATE : FRIDAY 20/06/2025 — Time: 10 to 10.30 |
| | SUBJECT: ELECTRICAL MACHINE II (BTEEC403) |

**INSTRUCTIONS:**

1. **Attempt any TWO questions from SECTION - I**

06

## Section - I

| Q. No. | Questions | Marks | CO | PO |
|---|---|---|---|---|
| 1 | What is Armature Reaction in Synchronous Machine? Explain Armature Reaction at different power factors with phasor Diagram. | 5 | 1 | 1 |
| 2 | Write Working principle and derive the EMF equation of synchronous generator. | 5 | 1 | 1 |
| 3 | Explain two axis theory. | 5 | 1 | 1 |

********** END **********

Q2) Working principle

1) Rotating magnetic field:

the generator's rotor, excited by a DC current creates a magnetic field this rotor is driven by a prime mover (like a turbine) & rotates, carrying the magnetic field to rotate as well

(2) Relative motion :-

the rotating magnetic field cuts across the stationary armature windings (stator). this relative motion between the magnetic field & the conductors induces a voltage in the armature windings

(3) EMF Generation :- the induced voltage is alternating & its frequency is directly proportional to the speed of the rotating magnetic field (& thus the rotor speed)

EMF Equation derivation

$e = d\phi/dt$

$e = \frac{(\phi P)}{(60/N)} = \phi PN/60$ volts

$T_{ph} = \frac{2Ph}{2}$

$E_{avg} = (\phi PN/60) * (Z/A) = \frac{\phi PNZ}{(60A)}$ volts

$E_{avg} = \left(\frac{\phi ZN}{60}\right) * \left(\frac{P}{A}\right)$ volts

therefore, the RMS induced EMF per phase is

$E_{ph} = 1.11\left(\frac{\phi ZN}{60}\right) * \left(\frac{P}{A}\right)$ volts

$E_{ph} = 4.44 * f * \phi * T_{ph} * K_c * K_d$ volts

where $f = \frac{(P*N)}{120}$ [frequency in Hz]

Q3

→ The two-axis theory, also known as the two-reaction theory is a method for analyzing the behavior of salient pole synchronous machines (like alternators) by breakdown the armature magnetic field into two components :- the direct (d-axis) & the quadrature axis (q-axis) the d-axis component is perpendicular to it. In essence, the two-axis theory provides a frame work for understanding the complex interactions between the armature & field windings in salint pole synchronous machines by breaking down the armature MMF into simpler orthogonal components

Sivani Tanaji Patil Roll NO :- 60

**DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.**

**Sanjeevan Engineering & Technology Institute, Panhala**

***Department of Electrical Engineering***

**CA-II**

SEMESTER: III ACADEMIC YEAR:2024-2025

CLASS:S Y Electrical MARKS: 10

DAY & DATE: Tu[illegible] Time:

SUBJECT: ELECTRICAL MACHINE I (BTEEC302)

INSTRUCTIONS:

1. Attempt any TWO question.

| | Questions | Marks | CO | PO |
|---|---|---|---|---|
| 1 | Explain armature reaction with cross magnetization and demagnetization effect. | 5 | 3 | 1 |
| 2 | Explain commutation process. | 5 | 3 | 1 |
| 3 | Draw and explain construction and working of DC generator. | 5 | 3 | 1 |

a] Armature reaction :-

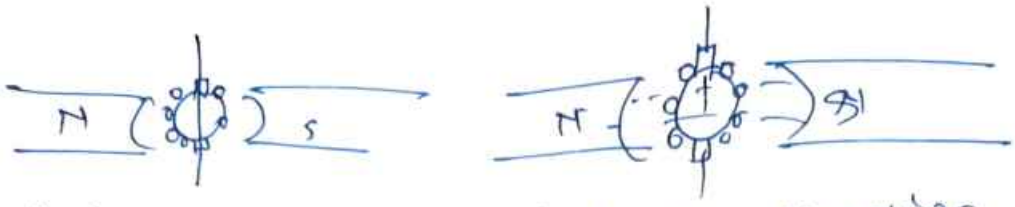

The effect of armature reaction is produced to the flux there are two type of armature reaction according to type of effect ① Cross magnetization ② demagnetization effect.

① Cross magnetization :-


The cross magnetization are the disports the position of the pole to change the the position of the magnetic flux. and shift the MNA of the change the direction.

with the help of prime mover

demagnatization



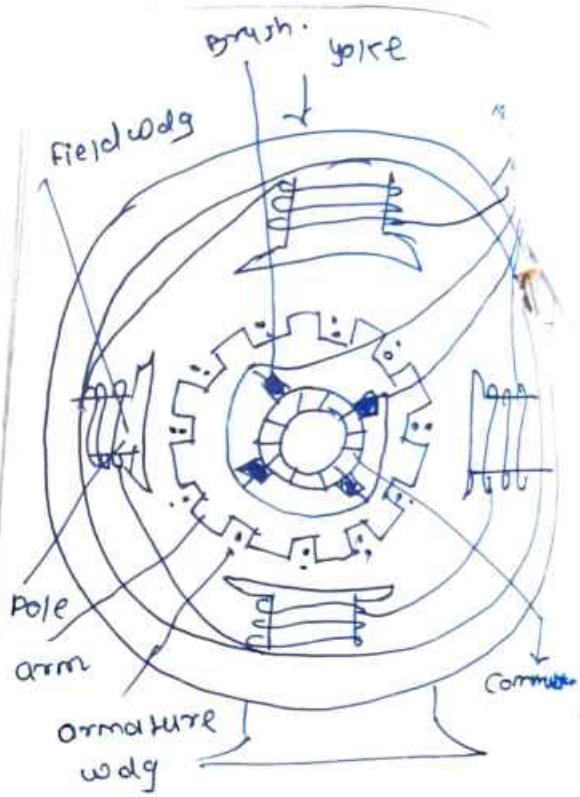

it is diredly proportinal to the direction of magnetic flux.

4

## dc generator :-

### construction :-

- magnetic frame :- The magnetic frame produced the path of the magnetic flux.
- pole shoes :- pole shoes are connected to the magnetic frame to provide path of the magnetic flux
- armature : the arm core are wound arm wdg to produced the ac current
- Commutator :- It is convert acvtg into dc is called as commutator.




### working :-

4

~~The external~~ The dc generator is a electrical machine to use a convert ~~ac voltage~~ mechanic energy into dc ~~is called~~ electrical energy is called as the dc generator.

when the external prime mover are connected to the mechaincal energy. the prime are are connected as extrnal supply whe the armature are rotates and the produced the ac vtg of the low of Farady's low of electromgatization and the the ac vtg circuites the low of Flemig's low of H and the commutator converts the ac vtg into dc and the brushes are collects the vtg aand circuites to the load.

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Pin- 416 201 (Maharashtra) Phone : 9146999500
DTE Code : EN6315
NAAC Accredited
AICTE ID : 1-8019451
AISHE Code : C-11165
Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra, DTE, DOA
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
Affiliated to Shivaji University, Kolhapur, MSBTE, Mumbai

Date: 17th Oct, 2025.

# NOTICE

All the faculty members are hereby informed that for S.Y., Mid **Semester Examination (MSE)** is scheduled from 29th October 2025 & 31st October 2025. Kindly Submit hard copy of your question paper in NAAC Format to Mr. N. B. Karnik sir and e-mail the soft copy to dipali.lokare @seti.edu.in on or before Monday 27th October, 2025.

**Departmental Exam Co – ordinator**
**Mrs. D. R. Lokare**

**H. O. D.**
**Mr. A. M. Bhandare**

Head of Department
Electrical Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur , 416201

SANJEEVAN GROUP OF INSTITUTIONS PANHALA
Dept. of Electrical Engineering (Degree)

DTE Code : EN6315

NAAC Accredited

AICTE ID : 1-8019451
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Department of Electrical Engineering

Date: 24th September, 2025

# NOTICE

All the students of S.Y. of Electrical Engineering Department are to be informed that time table of **Continuous Assessment - 1 (CA1) Examination,** scheduled on 26th September, 2025 is been changed, Because of Cultural Event **" Dandiya".**

- **The entire Student has to pay of their total tuition fee before CA1.**
- **Defined Dress Code is compulsory for Examination.**
- **CA1 Exam will not Reconducted for Absent Student.**

**Departmental Exam Coordinator**
**Mrs. D. R. Lokare**

**H.O.D.**
**Mr. A. M. Bhandare**

Department of Electrical Engineering

Date: 15th September, 2025

# NOTICE

All the students of T.Y & Final Year of Electrical Engineering Department are to be informed that **Continuous Assessment - 1 (CA1) Examination** is scheduled from 18th September to 19th September, 2025.

- **The entire Student has to pay of their total tuition fee before CA1.**
- **Defined Dress Code is compulsory for Examination.**
- **CA1 Exam will not Reconducted for Absent Student.**

**Departmental Exam Coordinator**
**Mrs. D. R. Lokare**

**H.O.D.**
**Mr. A. M. Bhandare**

Head Electrical Engineering Dept.,
SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE, PANHALA
Near Peth, Tal.Panhala, Dist.Kolhapur-416 201
MAHARASHTRA, INDIA

SANJEEVAN GROUP OF INSTITUTIONS ★ PANHALA ★ Dept. of Electrical Engineering (Degree)

DTE Code : EN6315

HON. NAMDEV JADHAV ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
Shree Swami Vivekanand College of Engineering, Panhala, Tal. Panhala, Dist. Kolhapur.
Pin-416 201 Affiliated to ... Phone: 0144-[illegible]500

NAAC Accredited
AICTE ID : 1-8019451
AISHE Code : C-11165

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- Affiliated to Shivaji University, Kolhapur & MSBTE, Mumbai.

Date: 9th May 2025.

# NOTICE

All the faculty members are hereby informed that, for S.Y. and T.Y., **Mid Semester Examination (MSE)** is scheduled from **15th May 2025 to 16th May 2025**. Kindly Submit hard copy of your question paper in NAAC Format to Mr. N. B. Karnik sir and e-mail the soft copy to dipali.lokare@seti.edu.in on or before **Saturday** 10th May 2025.

**Departmental Exam Co – ordinator**
**Mrs. D.R. Lokare**

**H. O. D.**
**Mr. V. T. Metkari**

DTE Code : EN6315

HOLY-WOOD ACADEMY'S
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Date: 22th November, 2024.

# NOTICE

All the faculty members are hereby informed that Continuous Assessment - 2 (CA2) for Examination is scheduled on 26th November, 2024 to 27th November, 2024. Kindly submit hard copy of your question paper in NAAC Format to Mr. S.V.Acharya sir and e-mail the soft copy to sushant.suryawanshi@seti.edu.in on or before Monday 25th November, 2024.

**Departmental Exam Co – ordinator**
**Mr. S.Y.Suryawanshi**

**H. O. D.**
**Mr. V. T. Metkari**

AMB -
YRN -

SANJEEVAN ENGG. TECH INSTITUTE PANHALA

**PRINCIPAL**
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Somwar Peth, Panhala - 416 201

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HOLY-WOOD ACADEMY'S
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Date: 11 Oct 2024

# Notice

All the SY Electrical Engineering students are hereby informed that the **MID SEM EXAM (MSE)** is arranged on 24 Oct 2024 to 25 Oct 2024 . The detailed time table will be available soon .

**NOTE :**

1. **Attendance is mandatory to all SY students.**
2. **Before coming to MSE clear dues and other queries otherwise no one will allowed for MSE .**

**Class Coordinator**
Mr. V.M.Ghewari

**H.O.D.**
Mr. V.T. Metkari

SANJEEVAN ENGG. TECH INSTITUTE PANHALA

**PRINCIPAL**
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

DTE Code : EN6315

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Sanjeevan Knowledge City, Somwar Peth Injole, Panhala, Tal. Panhala, Dist. Kolhapur.
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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

DEPARTMENT OF ELECTRICAL ENGINEERING

Date: 01st October, 2024.

# NOTICE

All the Direct Second Year (DSE) students of Electrical Engineering Department are to be informed that **Continuous Assessment - 1 (CA1) Examination** is scheduled from **03rd October, 2024 & 04th October, 2024.**

**Note: Only for those who had not given previous CA-I exam.**
**All students complete the admission processes (Reporting to Institute as well as Department) for the academic year 2024 - 25 in office. Those student not completed this processes is not eligible for CA1 examination.**

**Departmental Exam Incharge**
**Mr. S. Y. Suryawanshi**

**H.O.D.**
**Mr. V. T. Metkari**

SANJEEVAN ENGG. TECH INSTITUTE PANHALA

**PRINCIPAL**
Sanjeevan Engg. & Tech. Institute
Somwar Peth, Panhala - 416 201

# DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

## DEPARTMENT OF ELECTRICAL ENGINEERING

## Mid Sem Examination (MSE) – October 2025

### SUPERVISION TIME TABLE_Odd Semester_YEAR 2025 - 26

Centre - SANJEEVAN GROUP OF INSTITUTIONS , PANHALA

Date: 17.10.2025

| Day & Date | Time | Class | Subject Code | Name of Subject | Roll No. | Block Number | Name of Supervisor | Signature |
|---|---|---|---|---|---|---|---|---|
| Wed 29.10.2025 | 10:00 am to 11:00 am | S.Y. | 25AF1000BS301 | Engineering Mathematics - III | 01 to 35 | D104 | Mr. V. M. Ghewari | |
| | | | | | 36 to 72 | A107 | Dr.. S. Shukla | |
| | 03:00 pm to 04:00 pm | S.Y. | 25AF1UHVVE310 | Universal Human Values-II | 01 to 35 | D104 | Mr. N. S. Jadhav | |
| | | | | | 36 to 72 | A107 | Mrs. V.S. Bhosale | |
| Thus 30.10.2025 | 10:00 am to 11:00 am | S.Y. | 25AF1293PC302 | Electrical and Electronics Measurements | 01 to 35 | D104 | Mr. P. S. Pawar | |
| | | | | | 36 to 72 | A107 | Dr. P Kumar | Prince Kumar |
| | 03:00 pm to 04:00 pm | S.Y. | 25AF1000HM307B | Innovation and Entrepreneurship | 01 to 35 | D104 | Mr. P. S. Pawar | |
| | | | | | 36 to 72 | A107 | Mr. B. S. Hebbale | |
| Fri 31.10.2025 | 10:00 am to 11:00 am | S.Y. | 25AF1293PC303 | Network Theory | 01 to 35 | D104 | Dr. S. Shukla | |
| | | | | | 36 to 72 | A107 | Mrs. V.S. Bhosale | |
| | 03:00 pm to 04:00 pm | S.Y. | 25AF1LAWOEM05A | Introduction to Law on Electricity | 01 to 35 | D104 | Mr. N. S. Jadhav | |
| | | | | | 36 to 72 | A107 | Dr. P Kumar | Prince Kumar |

Departmental Exam Coordinator
Mrs. D. R. Lokare

SANJEEVAN GROUP OF INSTITUTIONS * PANHALA * Dept. of Electrical Engineering (Degree)

H. O. D.
Mr. A. M. Bhandarkar
Head of Department
Electrical Engineering (Degree)
Sanjeevan Group of Institutions
Somwar Peth - Panhala, Dist- Kolhapur , 416201

# DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Holy-wood Academy, Kolhapur

SANJEEVAN GROUP OF INSTITUTIONS, PANHALA.

MID TERM EXAMINATION - October-2025 TIME TABLE A.Y. 2025-26

| Day & Date | Branch Name | Revised Time | Class | Subject Code | Subject Name |
|---|---|---|---|---|---|
| Monday 06/10/2025 | Electronics & Computer | 10:00 to 11:00 | TY | BTECPC 501 | Computer network and Cloud computing |
| | Computer | 10:00 to 11:00 | TY | BTCOC501 | Database Systems |
| | | 11:15 to 12:15 | B.Tech | BTCOC701 | Artificial Intelligence |
| | Civil | 10:00 to 11:00 | TY | BTCVC 501 | Design of Steel Structures |
| | | 11:15 to 12:15 | B.Tech | BTCVC701 | Design of Reinf. & Prestressed Concrete Structure |
| | Electrical | 10:00 to 11:00 | TY | BTEEC501 | Power System Analysis |
| | | 11:15 to 12:15 | B.Tech | BTEEC701 | High Voltage Engineering |
| | Mechanical | 10:00 to 11:00 | TY | BTMC501 | Heat Transfer |
| | | 11:15 to 12:15 | B.Tech | BTMEC701 | Mechatronics |
| | Electronics & Computer | 2:15 to 3:15 | TY | BTECPC 502 | Digital signal and image processing |
| | Computer | 2:15 to 3:15 | TY | BTCOC502 | Theory of Computation |
| | | 3:30 to 4:30 | B.Tech | BTCOE702 | Cloud Computing |
| | Civil | 2:15 to 3:15 | TY | BTCVC 502 | Geotechnical Engineering |
| | | 3:30 to 4:30 | B.Tech | BTCVC702 | Infrastructure Engineering |
| | Electrical | 2:15 to 3:15 | TY | BTEEC502 | Microprocessor and Microcontroller |
| | | 3:30 to 4:30 | B.Tech | BTEEC702 | Power System Operation & Control |
| | Mechanical | 2:15 to 3:15 | TY | BTMC502 | Machine Design - I |
| | | 3:30 to 4:30 | B.Tech | BTMEC702 | Industrial Engineering and Management |
| Tuesday 07/10/2025 | Electronics & Computer | 10:00 to 11:00 | T.Y. | BTECPE 503D | Software engineering |
| | Computer | 10:00 to 11:00 | TY | BTCOC503 | Software Engineering |
| | | 11:15 to 12:15 | B.Tech | BTCOE703 | c) Big data Analytics |
| | Civil | 10:00 to 11:00 | TY | BTCVC 503 | Structural Mechanics –II |
| | | 11:15 to 12:15 | B.Tech | BTCVC703 | Construction Techniques |
| | Electrical | 10:00 to 11:00 | TY | BTEEC503 | Power Electronics |
| | | 11:15 to 12:15 | B.Tech | BTEEOE703 | Electrical Utilization |
| | Mechanical | 10:00 to 11:00 | TY | BTMC503 | Theory of Machines -II |
| | | 11:15 to 12:15 | B.Tech | BTMEC703D | Advanced IC Engines |
| | Electronics & Computer | 2:15 to 3:15 | T.Y. | BTECOE504 C | Programming in Java |
| | Computer | 2:15 to 3:15 | TY | BTCOE504 | a) Human Computer Intereaction |
| | | 3:30 to 4:30 | B.Tech | BTCOE704C | Block Chain Technology |
| | Civil | 2:15 to 3:15 | TY | BTCVC 504 | Concrete Technology |
| | | 2:15 to 3:15 | B.Tech | BTCVC704 | Professional Practices |
| | Electrical | 2:15 to 3:15 | TY | BTEEPE504 | (A) HVDC |
| | | 3:30 to 4:30 | B.Tech | BTEEOE704 | Mechantronics |
| | Mechanical | 2:15 to 3:15 | TY | BTAPE504D | Automobile Engineering |
| | | 3:30 to 4:30 | B.Tech | BTMEC704C | Pant Maintenance |
| Wednesday, 08/10/2025 | Electronics & Computer | 10:00 to 11:00 | T.Y. | BTECHM505 B | Business Communication |
| | Computer | 10:00 to 11:00 | TY | BTHM505 | (b) Business Communication |
| | | 11:15 to 12:15 | B.Tech | BTCOE705 | b) Deep Learning |
| | Civil | 10:00 to 11:00 | TY | BTHM505 | Project Management |
| | | 11:15 to 12:15 | B.Tech | BTCVE705I | Bridge Engineering |
| | Electrical | 10:00 to 11:00 | TY | BTEEOE505 | (B) Electrical Safety |
| | | 11:15 to 12:15 | B.Tech | BTEEOE705 | Electric and Hybrid Electric vehicles |
| | Mechanical | 10:00 to 11:00 | TY | BTMOE505C | Human Resource Management |
| | | 11:15 to 12:15 | B.Tech | BTMOE705C | Intellectual Property Rights |
| | Civil | 2:15 to 3:15 | TY | BTCVPE506 | Material, Testing and Evaluation |
| | | 3:30 to 4:30 | B.Tech | BTCVOE706D | Introduction to Earthquake Engineering |
| | Mechanical | 2:15 to 3:15 | TY | BTMEC502 | Applied Thermodynamics |

Examination Coordinator

SANJEEVAN GROUP OF INSTITUTIONS Dept. of Electrical Engineering (Degree) PANHALA

PRINCIPAL

# DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

## DEPARTMENT OF ELECTRICAL ENGINEERING

## Continuous Assessment - 1 (CA1) – September 2025

## Revised TIME TABLE ( Odd Semester ) YEAR 2025 - 2026

## Centre - SANJEEVAN GROUP OF INSTITUTIONS, PANHALA

## Course: B. Tech_Sem - III

Date: 24.09.2025

| Day & Date | Time | Subject Code | Name of Subject |
|---|---|---|---|
| THU 25.09.2025 | 12:00 pm to 12:30 pm | 25AF1000BS301 | Engineering Mathematics - III |
| | 02:00 pm to 02:30 pm | 25AF1293PC302 | Electrical and Electronics Measurements |
| | 03:30 pm to 04:00 pm | 25AF1293PC303 | Network Theory |
| FRI 26.09.2025 | 09:30 am to 10:00 am | 25AF1LAWOEM05A | Introduction to Law on Electricity |
| | 11:00 am to 11:30 am | 25AF1000HM307B | Innovation and Entrepreneurship |
| | 12:30 pm to 01:00 pm | 25AF1UHVVE310 | Universal Human Values-II |

**Note: Student has to pay of their total tution fee before CA1.**
**Define dresscode & I-Card is compulsory for Examination.**

Departmental Exam Coordinator
Mrs. D. R. Lokare

H. O. D.
Mr. A. M. Bhandare

# DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

## DEPARTMENT OF ELECTRICAL ENGINEERING

## Continuous Assessment - 1 (CA1) – September 2025

## TIME TABLE ( Odd Semester ) YEAR 2025 - 2026

## Centre - SANJEEVAN GROUP OF INSTITUTIONS, PANHALA

## Course: B. Tech_Sem - VII

Date: 15.09.2025

| Day & Date | Time | Subject Code | Name of Subject |
|---|---|---|---|
| THU 18.09.2025 | 02:00 pm to 02:30 pm | BTEEC701 | High Voltage Engineering |
| | 03:30 pm to 04:00 pm | BTEEC702 | Power System Operation & Control |
| FRI 19.09.2025 | 12:00 pm to 12:30 pm | BTEEPE703D | Electrical Utilization |
| | 02:00 pm to 02:30 pm | BTEEOE704C | Mechatronics |
| | 03:30 pm to 04:00 pm | BTEEOE705B | Electric and Hybrid Electric Vehicles |

**Note: Student has to pay of their total tution fee before CA1.**
**Define dresscode & I-Card is compulsory for Examination.**

Departmental Exam Coordinator
Mrs. D. R. Lokare

H. O. D.
Mr. A. M. Bhandare

# DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

## DEPARTMENT OF ELECTRICAL ENGINEERING

**Continuous Assessment - 1 (CA1) – September 2025**

**TIME TABLE ( Odd Semester ) YEAR 2025 - 26**

**Centre - SANJEEVAN GROUP OF INSTITUTIONS , PANHALA**

**Course: T. Y. B. Tech_Sem - V**

Date: 15/09/2025

| ay & Date | Time | Subject Code | Name of Subject |
|---|---|---|---|
| THU 18.09.2025 | 02:00 pm to 02:30 pm | BTEEC501 | Power System Analysis |
| | 03:30 pm to 04:00 pm | BTEEC503 | Power Electronics |
| FRI 19.09.2025 | 12:00 pm to 12:30 pm | BTEEC502 | Microprocessor and Microcontroller |
| | 02:00 pm to 02:30 pm | BTEEPE504A | HVDC |
| | 03:30 pm to 04:00 pm | BTEEOE505B | Electrical Safety |

**Note: Student has to pay of their total tution fee before CA1.**
**Define dresscode & I-Card is compulsory for Examination.**

Departmental Exam Coordinator
Mrs. D. R. Lokare

H. O. D.
Mr. A. M. Bhandare

# SANJEEVAN

GROUP OF INSTITUTIONS, PANHALA

*Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.*

## Academic Calendar for A.Y. 2024-2025 (Even Semester)

| Month | Week/ Days | | | | | | | working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| FEBRUARY | | | | | | 1 | 2 | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | 05 -27 Feb- Winter 2024 End Sem Exam |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | 12-Sant Rohidas Jayanti |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | 19-Chha. Shivaji Maharaj Jayanti, 23 -Sant Gadage Baba Jay. |
| | 24 | 25 | 26 | 27 | 28 | | | | 26-Mahashivratri, 27-Marathi Bhasha Din, 28- Science Day |
| MARCH | | | | | | 1 | 2 | 0 | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 6 | 3- Commencement of Classes, 5-9:Sports, 8- Mahila Din |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 4 | 12 & 13:Annual Social Gathering, 14-Dhulivandan |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 6 | |
| | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 5 | 28- PARIKRAMAA, 30-Gudhi Padwa |
| | 31 | | | | | | | 0 | 31-Ramjan Id (Id-Ul-Fitra) |
| APRIL | | 1 | 2 | 3 | 4 | 5 | 6 | 4 | 6-Shri Ram Navami |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 5 | 10-Bhagwan Mahavir Janmkalyanak, 11-12:CA-1 |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 3 | 14-Dr.Ambedkar Jayanti,18-Good Friday, 20-Easter Sunday |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 6 | |
| | 28 | 29 | 30 | | | | | 3 | 30-Basaveshwar Jayanti |
| MAY | | | | 1 | 2 | 3 | 4 | 1 | 1-Maharashtra Din, 2-7: Mid Semester Exam |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 6 | |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 4 | 12-Buddha Pournima,14-Chha. Sambhajiraje Jayanti, |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 6 | |
| | 26 | 27 | 28 | 29 | 30 | 31 | | 5 | 28-Swa. Savarkar Jayanti, 31-Punya.Ahilyabai Jayanti |
| JUNE | | | | | | | 1 | 0 | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | 5-World Env Day, 7-Bakri Id (Id-Uz-Zuha) |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 5 | 9-Chha. Shiv Rajyabhishek Din |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 6 | 18-20: CA-2, 20-End of Classes, 21-23: Pract/Seminar/Mini |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 0 | Proj Exam, 24th June- 03rd July: End Semester Exam. |
| | 30 | | | | | | | 0 | 26-Chha.Shahu Jayanti, 21 June-30 July:Vacation Slot |
| Govt. Holiday | | CA/MSE/Pract. Exam/ESE | | | | | | 80 | 6 July- Moharam, 26th July 2025: Result Declaration, 01 Aug. 2025 Commencement of Classes for Next semester |
| Activities | | Institute Holiday | | | | | | | |

Notes: 1. The above dates may be altered in accordance with the directives issued by regulatory authorities. Additionally, classes on few Sundays will be conducted, except public holidays declared by the govt.

2. In alien with this, each department is required to develop it's own calendar to accurately represent departmental activities, industrial Visits and Student Intrenships etc.....

Dean Academics

Sanjeevan Group Of Institutions, Panhala — Degree Engg.

Principal

PRINCIPAL

Sanjeevan Group Of Institutions
Somwarpeth, Panhala, Tal. Panhala,
Dist. Kolhapur - 416 201

SANJEEVAN GROUP OF INSTITUTIONS, PANHALA

DTE Code : [illegible]

# Academic Calendar for A.Y. 2024-2025 (Even Semester)

## Department of Electronics and Computer Engineering

| Month | Week/ Days | | | | | | | working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| FEBRUARY | | | | | | 1 | 2 | | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | 05 -27 Feb- Winter 2024 End Sem Exam |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | 12-Sant Rohidas Jayanti, Regular NPTEL Assignment solving |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | | 19-Chha. Shivaji Maharaj Jayanti, 23 -Sant Gadage Baba Jay. |
| | 24 | 25 | 26 | 27 | 28 | | | | 26-Mahashivratri, 27-Marathi Bhasha Din, 28- Science Day |
| MARCH | | | | | | 1 | 2 | 0 | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 6 | 3- Commencement of Classes, 5-9:Sports, 8- Mahila Din |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 4 | 12 & 13:Annual Social Gathering, 14-Dhulivandan |
| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 6 | Conduction of one week FDP |
| | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 5 | 28- PARIKRAMAA, 30-Gudhi Padwa |
| | 31 | | | | | | | 0 | 31-Ramjan Id (Id-Ul-Fitra), Regular NPTEL Assignment so |
| APRIL | | 1 | 2 | 3 | 4 | 5 | 6 | 4 | 6-Shri Ram Navami |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 5 | 10-Bhagwan Mahavir Janmkalyanak, 11-12:CA-1 |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 3 | 14-Dr.Ambedkar Jayanti,18-Good Friday, 20-Easter Sunday |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 6 | |
| | 28 | 29 | 30 | | | | | 3 | 30-Basaveshwar Jayanti |
| MAY | | | | 1 | 2 | 3 | 4 | 1 | 1-Maharashtra Din, 2-7: Mid Semester Exam |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 6 | |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 4 | 12-Buddha Pournima,14-Chha. Sambhajiraje Jayanti, |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 6 | |
| | 26 | 27 | 28 | 29 | 30 | 31 | | 5 | 28-Swa. Savarkar Jayanti, 31-Punya.Ahilyabai Jayanti |
| JUNE | | | | | | | 1 | 0 | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | 5-World Env Day, 7-Bakri Id (Id-Uz-Zuha) |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 5 | 9-Chha. Shiv Rajyabhishek Din |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 6 | |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 0 | 18-20: CA-2, 20-End of Classes, 21-23: Pract/Seminar/Mini Proj Exam, 24th June- 03rd July: End Semester Exam. |
| | 30 | | | | | | | 0 | 26-Chha.Shahu Jayanti, 21 June-30 July:Vacation Slot |
| Govt. Holiday | | CA/MSE/Pract. Exam/ESE | | | | | | 80 | 6 July- Moharam, 26th July 2025: Result Declaration, |
| Activities | | Institute Holiday | | | | | | | 01 Aug. 2025 Commencement of Classes for Next semester |

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.
.....2. In align with this, each Department shall prepare their separate calendar to reflect departmental ..... activities, Industrial Visits and Student Intrenships

Prepared By | HOD(ECE). | Dean Academics | Principal

Dept. of Electronics and Computer Engineering (Degree)

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

Head of Department
Electronics and Computer Engineering (Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

HOLY-WOOD ACADEMY'S

# SANJEEVAN

GROUP OF INSTITUTIONS, PANHALA

***Vision- To be the institution of excellence by imparting quality education and transforming students into competent professionals with societal relevance.***

## Academic Calendar for A.Y. 2024-2025 (Odd Semester)

| Month | Week/ Days | | | | | | | working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| AUGUST | | | | 1 | 2 | 3 | 4 | 2 | 1- Admission Reporting, Commencement of Classes |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 6 | |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 4 | 15 - Independence Day, Parsi New Year |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 6 | |
| | 26 | 27 | 28 | 29 | 30 | 31 | | 5 | 29-30- CA-1 |
| SEPTEMBI | | | | | | | 1 | 0 | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | 5 Teachers Day 7- Shri Ganesh Chaturthi |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 6 | 15- Engineer's Day |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 4 | 16- Eid-e-Milad |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 6 | 26-28- Mid Semester Exam. |
| | 30 | | | | | | | 1 | |
| OCTOBER | | 1 | 2 | 3 | 4 | 5 | 6 | 3 | 2- Mahatma Gandhi Jayanti. |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 5 | 12-Dussehra |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 5 | |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 6 | |
| | 28 | 29 | 30 | 31 | | | | 4 | |
| NOVEMBER | | | | | 1 | 2 | 3 | 0 | 1- Laxmi Pujan, 2-Bali Pratipada |
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 6 | |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 4 | 15- Guru Nanak Jayanti |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 5 | 22- End of Classes, 22-23-CA-2 |
| | 25 | 26 | 27 | 28 | 29 | 30 | | | Practical/Seminar/Mini Project Exam. |
| DECEMBER | | | | | | | 1 | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 2-26- End Semester Exam. |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | | |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | | 25- Christmas |
| | 30 | 31 | | | | | | | 27Dec 24- 20Jan25- Field Training/Internship/Industrial Training |
| Govt. Holiday | | CA/MSE/Pract. Exam/ESE | | | | | | 83 | 21st January 2025 Commencement of Classes for Next semester |
| Activities | | Institute Holiday | | | | | | | |

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.

2. In align with this, each Department shall prepare their separate calendar to reflect departmental activities, Industrial Visits and Student Intrenships

Sanjeevan Group Of Institutions, Panhala ★ Degree Engg.

Dean Academics

Principal

PRINCIPAL
Sanjeevan Group Of Institutions
Somwarpeth, Panhala, Tal. Panhala,
Dist. Kolhapur - 416 201 (M.S.)

HOLYWOOD ACADEMY'S

# SANJEEVAN

GROUP OF INSTITUTIONS, PANHALA

DTE Code : ENGI017

NAAC Accredited

## Academic Calendar for A.Y. 2024-2025 (Odd Semester)

## Department of Electronics and Computer Engineering

| Month | Week/ Days | | | | | | | working days | Events |
|---|---|---|---|---|---|---|---|---|---|
| | MON | TUE | WED | THUR | FRI | SAT | SUN | | |
| AUGUST | | | | 1 | 2 | 3 | 4 | 2 | 1- Admission Reporting, Commencement of Classes |
| | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 6 | |
| | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 4 | 15 - Independence Day, Parsi New Year |
| | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 6 | |
| | 26 | 27 | 28 | 29 | 30 | 31 | | 5 | 23 - Isro Day |
| SEPTEMBER | | | | | | | 1 | 0 | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 5 | 5 - Teachers Day |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 6 | 7- Shri Ganesh Chaturthi |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 4 | 15- Engineer's Day |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 6 | 16- Eid-e-Milad |
| | 30 | | | | | | | 1 | 26-28- Mid Semester Exam. |
| OCTOBER | | 1 | 2 | 3 | 4 | 5 | 6 | 3 | |
| | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 5 | 2- Mahatma Gandhi Jayanti. |
| | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 5 | 12-Dussehra |
| | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 6 | |
| | 28 | 29 | 30 | 31 | | | | 4 | |
| NOVEMBER | | | | | | | 3 | 0 | 1- Laxmi Pujan, 2-Bali Pratipada |
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 6 | 14 - Parents Meet |
| | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 4 | 15- Guru Nanak Jayanti |
| | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 5 | 22- End of Classes, 22-23-CA-2 |
| | 25 | 26 | 27 | 28 | 29 | 30 | | | Practical/Seminar/Mini Project Exam. |
| DECEMBER | | | | | | | 1 | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 2-26- End Semester Exam. |
| | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | |
| | 16 | 17 | 18 | 19 | 20 | 21 | 22 | | |
| | 23 | 24 | 25 | 26 | 27 | 28 | 29 | | 25- Christmas |
| | 30 | 31 | | | | | | | 27Dec 24-20Jan25- Field Training/Internship/Industrial Training |
| Govt. Holiday | CA/MSE/Pract. Exam/ESE | | | | | | | 83 | 21st January 2025 Commencement of Classes for Next semester |
| Activities | Institute Holiday | | | | | | | | |

Note: 1. The above dates are subject to change as per the guidelines of regulating authorites.
2. In align with this, each Department shall prepare their separate calendar to reflect departmental activities, Industrial Visits and Student Intrenships

Prepared By

HOD(ECE)

Dean Academics

Principal

SANJEEVAN GROUP OF INSTITUTIONS Dept. of Electronics and Computer Engineering (Degree)

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

Head of Department
Electronics and Computer Engineering(Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

HOLY-WOOD ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur
Pin- 416 201 (Maharashtra) Phone : 9146999500
DTE Code : EN6315
NAAC Accredited
AICTE ID : 1-8019451
AISHE Code : C-11165
O Approved By AICTE, New Delhi O Recognized by Govt. of Maharashtra, DTE, DOA
O Permanent Affiliation by D. Babasaheb Ambedkar Technological University, Raigad
O Affiliated to Shivaji University, Kolhapur., MSBTE, Mumbai.

**Date: 15 /04 /2025**

# NOTICE

All the students of **Department of Computer Science and Engineering & Department of Electronics and Computer Engineering** are here by inform that CA-I examination is scheduled on 15 April 2025 as follows:

The time table is given below:

**CA-I Examination Schedule 2025**

| Division/ Class | 10.30 – 11.30 | 11.30 – 12.30 | 02.00 - 03.00 |
|---|---|---|---|
| SY A | DAA (MCQ) | PTPR | Academics as per Schedule |
| SY B | DAA (MCQ) | OS | Academics as per Schedule |
| TY A | ML (MCQ) | CD (MCQ) | CN (Assignment) |
| TY B | ML (MCQ) | CD (MCQ) | - |
| SY ECE | DAA | Python (Assignment) | Academics as per Schedule |

**Note: Attendance is mandatory.**

**Exam Coordinator**

SANJEEVAN GROUP Dept. Computer Science and Engineering (Degree) PANHALA

**H.O.D**
Head of Department
Computer Science and Engineering (Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416.

PRINCIPAL
Sanjeevan Group Of Institutions
Somwarpeth, Panhala, Tal. Panhala,
Dist. Kolhapur - 416 201 (M.S.)

HOLY WOOD ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
Sanjeevan Knowledge City, Somwar Peth-Japale, Panhala, Tal. Panhala, Dist. Kolhapur
Pin-416 201 (Maharashtra) Phone : 9146999500
DTE Code : EN6315
NAAC Accredited
AICTE ID : 1-8019451
AISHE Code : C-41165
Approved By AICTE, New Delhi Recognized by Govt. of Maharashtra, DTE, DOA
Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad
Affiliated to Shivaji University, Kolhapur, MSBTE, Mumbai.

**Date: 29 /08 /2024**

# NOTICE

All the students of **Department of Electronics and Computer Engineering** are here by inform that CA-I examination is scheduled on 05 /09 /2024 & 06/09/2024.

The time table is given below:

**CA-I Examination Schedule 2024**

| Date | Time | SY |
|---|---|---|
| 05/09/2024 | 9.30-10.30 | Engineering Mathematics – III |
| 05/09/2024 | 10.45-11.45 | Computer Architecture & Operating System |
| 05/09/2024 | 12.00-01.00 | Programming, Data Structure and Algorithm using C |
| 06/09/2024 | 9.30-10.30 | Electronics Devices & Circuits |
| 06/09/2024 | 10.45-11.45 | Digital Electronics and Microprocessor |

**Note: Attendance is mandatory.**

Exam Coordinator

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

S.N. SANJEEVAN GROUP OF INSTITUTIONS PANHALA
Dept. of Electronics and Computer Engineering (Degree)

H.O.D
Head of Department
Electronics and Computer Engineering(Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

| | |
|---|---|
| | DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE. |
| | Sanjeevan Group of Institutions, Panhala. |
| | Department of Electronics & Computer Engineering |
| | Mid Semester Examination Summer 2025 |
| | SEMESTER: IV — ACADEMIC YEAR: 20.. |
| | NAME Of STUDENT: — PRN.: |
| | CLASS: S. Y. — Time : |
| | DAY & DATE: — Marks: 20 |
| | SUBJECT NAME WITH CODE: Database Management Systems ( BTECPC402 ) |

**Instructions to the Students:**

1. All questions are compulsory
2. Assume suitable data if necessary
3. Use of non-programmable calculator is allowed

| Question No. | Sub Question | Question | CO | PO | BL | Marks |
|---|---|---|---|---|---|---|
| 1. | | Attempt the Following | | | | 4×1 =4 |
| | a. | Which level of data abstraction describes what data is stored and the relationships among the data?<br>A) Physical level<br>B) View level<br>C) Logical level<br>D) Conceptual level | 1 | 1 | 1 | 1 |
| | b. | A relational database stores data in:<br>A) Arrays<br>B) Stacks<br>C) Tables<br>D) Graphs | 1 | 1 | 1 | |
| | c. | Which SQL command is used to create a new table?<br>A) INSERT<br>B) CREATE<br>C) UPDATE<br>D) SELECT | 1 | 1 | 1 | 1 |
| | d. | Which clause is used to sort the result set?<br>A) SORT BY<br>B) ORDER<br>C) ORDER BY<br>D) GROUP BY | 1 | 1 | 1 | 1 |
| 2. | | Solve Any Two Of The Following | | | | 3 ×2 = 6 |
| | a. | Explain the levels of data abstraction with suitable examples. | 1 | 2 | 2 | 3 |

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| | | | | | | |
|---|---|---|---|---|---|---|
| | b. | What is a schema? How is it different from an instance? Provide examples. | 1 | 2 | 2 | 3 |
| | c. | Explain the concept of weak and strong entities with appropriate examples. | 2 | 2 | 2 | 3 |
| 3 | | **Solve Any two of the following** | | | | 5 ×2 = |
| | a. | Explain various types of database systems with suitable examples. | 1 | 2 | 2 | |
| | b. | What are the different components of DBMS architecture? Explain the roles of each component briefly. | 1 | 2 | 2 | 5 |
| | c. | What are joins in SQL? Explain INNER JOIN, LEFT JOIN, and RIGHT JOIN with proper syntax and example queries. | 2 | 2 | 3 | 5 |

********** END **********

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| | |
|---|---|
| | DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE. |
| | Sanjeevan Group of Institutions, Panhala. |
| | Department of Electronics and Computer Engineering |
| | Mid Semester Examination Winter 2024 |

| | |
|---|---|
| SEMESTER: III | ACADEMIC YEAR: 2024 |
| NAME Of STUDENT: | PRN.: |
| CLASS: SY- ECE | Time: 10:00 AM - 11:00 A.M. |
| DAY & DATE: Friday, 25/10/2024 | Marks: 20 |
| SUBJECT NAME: Programming Data Structure & Algorithm Using C | |

**Instructions to the Students:**

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator is allowed**

**Q 1 Attempt the Following** **4×1 =4**

**a) What is a stack?**

A) A linear data structure that follows FIFO

B) A linear data structure that follows LIFO

C) A non-linear data structure

D) A type of queue

**Ans: B) A linear data structure that follows LIFO**

**b) Which of the following is a real-world example of a queue?**

A) A stack of plates

B) A line of people waiting for a bus

C) A list of tasks to be executed

D) A set of numbers

**Ans: B) A line of people waiting for a bus**

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**c) What does the enqueue operation do in a queue?**

A) Removes an element from the front

B) Adds an element to the back

C) Checks the front element

D) Clears the entire queue

**Ans: B) Adds an element to the back**

**d) Which data structure allows the push operation?**

A) Queue

B) Linked List

C) Stack

D) All of the above

**Ans: C) Stack**

**Q.2 Solve Any Two Of The Following** **3 ×2 = 6**

**a) What is data Structure? Give an example.**

Ans: A data structure is a way of organizing and storing data so that it can be accessed and modified efficiently. It defines the layout, relationships, and operations that can be performed on the data, enabling better management and manipulation for various computational tasks.

Data structures are fundamental to computer science and are used in algorithms to improve performance. They can be simple, like arrays and lists, or more complex, like trees and graphs, depending on the problem at hand.

Example: Array

An array is one of the most basic data structures. It is a collection of elements, all of the same type, stored in contiguous memory locations. Each element can be accessed by its index, making retrieval very fast.

Example: Consider an array of integers:

arr = [10, 20, 30, 40, 50]

- The elements 10, 20, 30, 40, 50 are stored in consecutive memory slots.
- To access the third element (30), you can use its index: arr[2].
- Arrays are great when you need fast access to elements using an index but are not ideal for situations where elements need to be frequently inserted or removed.

Operations on Arrays:

- Accessing an element: arr[i]
- Updating an element: arr[i] = new_value
- Length: len(arr) (in Python)
- Traversal: Iterate over the array to visit each element.

**b) What is an abstract data type? Explain it in detail.**

An Abstract Data Type (ADT) is a high-level description of a data structure that defines a set of operations on the data but does not specify how these operations will be implemented. It focuses on what operations can be performed on the data, rather than how those operations are carried out.

In simpler terms, an ADT is a logical model of a data structure, which abstracts away the details of how the data is stored and how the operations are executed, allowing you to focus on the behavior of the data structure.

Key Characteristics of ADTs

1. Encapsulation:
   - ADTs hide the internal structure and implementation details from the user. The user only interacts with the operations provided by the ADT, without needing to know how they are implemented or how the data is represented.
2. Operations:
   - An ADT defines a set of operations that can be performed on its data. These operations are the only means of interacting with the data stored in the ADT. The operations define the logical behavior of the data.
3. Behavior:

- The behavior of an ADT is defined by the operations and their relationships, not by the way the data is implemented. This means you can change the internal structure of the ADT (e.g., switch from an array to a linked list) without affecting the interface or behavior seen by the user.

Example of an ADT

Stack (Abstract Data Type)

A Stack is a classic example of an ADT. A stack follows the Last-In, First-Out (LIFO) principle, meaning that the last element added to the stack is the first one to be removed.

- Operations:
  - push(x): Add element x to the top of the stack.
  - pop(): Remove and return the element from the top of the stack.
  - peek(): Return the top element of the stack without removing it.
  - isEmpty(): Check if the stack is empty.
  - size(): Return the number of elements in the stack.

**c) What is the need of data structure?**

The need for data structures arises because they allow us to efficiently store, organize, and manipulate data in a way that supports fast access, modification, and retrieval of information. In any computer program or system, we work with data, and how we structure that data determines how efficiently we can perform various operations. Here's a detailed explanation of why data structures are crucial:

1. Efficient Data Access

- Data structures help organize data so that we can access or modify it efficiently. For example, in an array, we can access an element in constant time (O(1)) by using its index. In contrast, if the data were stored in an unstructured way, finding a specific element could require scanning the entire dataset, which is much slower.
- Different data structures provide different ways to access data. For example:
  - Hash Tables allow constant-time lookups (O(1)).
  - Linked Lists can easily insert or delete elements from the beginning or middle (O(1)), while an array requires shifting elements.

2. Optimal Resource Usage

- Memory Efficiency: Some data structures are more space-efficient for particular use cases. For example, a linked list does not require contiguous memory like an array and allows dynamic memory allocation. This is important when the amount of data is unknown or changes frequently.

- Time Efficiency: Some data structures optimize time complexity for certain operations. For instance:
  - A binary search tree (BST) allows searching, inserting, and deleting data in O(log n) time on average, whereas an array might require O(n) time to search for an element.

3. Solving Specific Problems

- Data structures are often tailored to solve specific types of problems more effectively:
  - Queues and Stacks are ideal for problems where elements need to be processed in a particular order (e.g., First-In-First-Out (FIFO) for queues and Last-In-First-Out (LIFO) for stacks).
  - Graphs are useful for modeling relationships between objects, such as in social networks or routing algorithms.
  - Heaps are used in priority queues where we need fast access to the minimum or maximum element.

4. Improved Performance of Algorithms

- Algorithms and data structures go hand in hand. Many algorithms are optimized when paired with the right data structure. For example:
  - A binary search algorithm requires a sorted array or list to work efficiently in O(log n) time.
  - Dijkstra's algorithm for finding the shortest path in a graph uses a priority queue to select the next node with the smallest distance.
- Without proper data structures, algorithms can become inefficient, leading to slow performance, especially for large datasets.

5. Handling Large Volumes of Data

- As the amount of data grows, it becomes increasingly important to use data structures that can handle large volumes of information efficiently. For example, when dealing with large datasets in databases, hash tables and B-trees are commonly used to store and query data quickly.
- Balanced trees like AVL or Red-Black trees ensure that even with a large number of insertions or deletions, the search operations remain efficient (e.g., O(log n) time complexity).

6. Data Integrity and Security

- Properly structuring data also ensures the integrity and consistency of information. For instance:
  - Linked lists can avoid issues like fragmented memory, ensuring that the data is consistently represented.
  - Graphs can be used to represent secure communication channels and networks, helping track data flow and dependencies.

**Q. 3) Solve Any two of the following** **5 ×2 = 10**

**a.) What are the common operations performed on data structure?**

Ans: 1. Insertion

- Definition: Adding a new element to the data structure.
- Details: The operation places the element in the appropriate position based on the data structure's rules.
- Example:
  - Array: Inserting at the end or at a specific index.
  - Linked List: Adding a node at the beginning, end, or at a specific position.
  - Binary Search Tree (BST): Inserting a node while maintaining the binary search property.

2. Deletion

- Definition: Removing an element from the data structure.
- Details: The element is removed, and the structure is updated to maintain its integrity.
- Example:
  - Array: Deleting an element at a specific index, shifting elements if necessary.
  - Linked List: Removing a node from the beginning, end, or from a specific position.
  - BST: Deleting a node while ensuring the tree remains valid (balancing may be required).

3. Traversal

- Definition: Visiting every element of the data structure in a systematic manner.
- Details: Traversing is used to access and display the elements of the structure.
- Example:
  - Array: Iterating over the array to access or print elements.
  - Linked List: Traversing through the list by following the links between nodes.
  - Tree: In-order, pre-order, or post-order traversal to visit all nodes in a tree.
  - Graph: Depth-first search (DFS) or breadth-first search (BFS) to visit all nodes.

4. Search

- Definition: Finding an element in the data structure.
- Details: Depending on the structure, searching may be optimized (e.g., binary search in sorted arrays or hashing in hash tables).
- Example:
  - Array: Linear search or binary search.
  - Linked List: Searching through nodes by traversing from the head.
  - Hash Table: Searching using a hash function for fast lookups.
  - Binary Search Tree (BST): Searching for a node by comparing values and traversing left or right.

5. Update (or Modify)

- Definition: Changing the value of an existing element.
- Details: This operation involves finding an element (usually using search) and modifying its value.
- Example:
  - Array: Updating the value of an element at a given index.
  - Linked List: Finding the node and modifying its value.
  - BST: Finding a node and changing its value.

**b. Explain types of data structure in detail.**

Ans: 1. Linear Data Structures

In linear data structures, elements are stored in a sequential manner, and each element is connected to its predecessor and successor (except for the first and last elements).

a. Array

- Description: A collection of elements stored in contiguous memory locations.
- Operations:
  - Access: O(1) (accessing an element by index).
  - Insertion/Deletion: O(n) (shifting elements).
- Example Use: Storing a list of integers or items where access speed is important.

b. Linked List

- Description: A collection of nodes, each containing data and a reference (pointer) to the next node.
- Operations:
  - Insertion/Deletion: O(1) at the beginning or end, O(n) for specific positions.
  - Access/Search: O(n) (since we must traverse the list).
- Example Use: Dynamic lists where frequent insertion/deletion is needed.

c. Stack

- Description: A collection of elements following LIFO (Last In, First Out) order. Operations are done at the "top" of the stack.
- Operations:
  - Push: O(1) (insert an element).
  - Pop: O(1) (remove the top element).
  - Peek: O(1) (view the top element without removing it).
- Example Use: Undo operations, expression evaluation.

d. Queue

- Description: A collection of elements following FIFO (First In, First Out) order. Elements are added at the rear and removed from the front.
- Operations:
  - Enqueue: O(1) (insert at the rear).
  - Dequeue: O(1) (remove from the front).
  - Peek: O(1) (view the front element).
- Example Use: Task scheduling, print queue.

2. Non-linear Data Structures

In non-linear data structures, elements are connected in a hierarchical or graph-like manner, with no strict sequence.

a. Tree

- Description: A hierarchical structure with nodes connected by edges. The root node has no parent, while other nodes have one parent and possibly many children.
- Operations:
  - Insert/Delete: O(log n) in balanced trees, O(n) in unbalanced trees.
  - Traversal: Pre-order, In-order, Post-order (O(n)).
- Example Use: File systems, database indexing, and binary search trees (BST).

b. Graph

- Description: A collection of nodes (vertices) connected by edges. Graphs can be directed (edges have direction) or undirected (edges have no direction).
- Operations:
  - Traversal: Depth-First Search (DFS) and Breadth-First Search (BFS) (O(V + E)).
  - Shortest Path: Dijkstra's or Bellman-Ford algorithms.
- Example Use: Social networks, routing algorithms, and recommendation systems.



3. Hash-based Data Structures

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Sanjeevan Knowledge City, Dist. Kolhapur. Pin.416 201

Name of the Student : Shweta Shahaji Patil

Class : SY (ECE) Roll No. : 05

Subject : Data analysis Date : 16/05/2025

Language of Answer English

| Question No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Total | out of | Examiner's Sign. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Marks obtainted | 02 | 06 | 08 | | | | | | | | | 18 | |

Main Answersheet + No. of Supplement = Total

01 + =

16/05/25.
Supervisor's Signature

Q.1 a) It is uses a sample to draw conclusions or make predictions about a populations

02 b) 4

c) Mode

d) To scale features. so they have a mean of a standard deviation of 1.

Q.2 Hypothesis testing is statistical method that is used to make decision & interferences about the population parameters based on the sample data

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Null Hypothesis

The null hypothesis is statements that there is no effect, no relationship or no difference in a variable

- It is represented as default

- Example - The average height of the student is 170 cm

- It is represented by 'H0'

Alternative hypothesis

- It is the contradiction of the null hypothesis

03

- It suggests that their is an effect, a difference & a relationship of an variable

- Example: $H_1$ = The average height of student is not 170 cm

In hypothesis testing, we can access the data value whether it is rejected by the null & hypothesis ~~of an~~ in favour by the alternative, which is based on the Significance of level

b. box-cox and yeo johnson transformation

- In Box-Cox and Yeo Johnson transformation is used ~~to~~ in statics and probability properly in variab data analysis and machine learing algorithm

03

Purpose of Box-cox transformation

- It is used for the normalize the given data.

- In Box-cox transformation the only positively skewed data can normalize by this transformation

- Formula for Box-cox transformation

$$y(\lambda) = \begin{cases} \dfrac{y^{\lambda-1}}{\lambda} & , \lambda \neq 0 \\ \lambda & , \lambda = 0 \end{cases}$$

- It is affected by the outliers.

Purpose of Yeo Johnson transformation

- It can normalize the positively and negati values of data

- It reduces the skewness of data

- It is similar to the Box-Cox transformati it reduces ~~all~~ both positive & negative valu of skewed data

- It can also handle the zero & non-positi values

- When both the positive & negative values of skewed data, ~~it~~ you still want to normalize the distribution

Q.3 a

| Normalization | Standardization |
|---|---|
| 1) Minimum & maximum values of features are used for scaling | 1) Mean & standard deviation is used for scaling |
| ii) It is useful when the different scales | 2) It is useful when we want to ensures zero mean & unit standard deviation |
| iii) Scales starts from [0,1] or [-1,1] | 3) It is not bounded by scales. |
| iv) It is ~~also known~~ often called as scale normalization | 4) It is ~~also known~~ often called as Z-score normalization |
| v) It is useful when we don't know about the distribution | 5) It is useful when the feature distribution normal |
| vi) Sci/kt learns provides transformed called min-max scale for normalization | 6) Sci/kt learns provides transform are called standard scale for Stardardization |

0/4



c Baye's theorem

- A baye's theorem is fundamental concept of statistics & probability of an event
- It is used in data analysis & machine learning
- It allows us to the probability of an event is the ~~change~~ updated by the new evidences or information.
- The core ~~of~~ formula of the bye's theorem is given by.

0/4

$$P(A|B) = \frac{[P(B/A) \times P(A)]}{P(B)}$$

where,

P(A|B) = The probability of a event A is happening given that event B has already happened

P(B|A) = The probability of event B is happening given that event A has already happened

P(A) = Probability of an event A

P(B) = Probability of an event B.

b. Measures of dispersion

- Measures of dispersion refers to the statistical tool by the varied of the probability while the measuring the central tendency.
- The measure of dispersion is concept that, the ~~do~~ how much data is varies from the data centre.
- The data is spread by the data centre.

Keys of measures of dispersion

i) Range - The difference between the highest value & lowest value. It is highly affected on outliers.

Ex : Range = Xmax - Xmin

ii) Interquite range : The difference between the third quartile & first quartile by the spread of middle 50% of data.

iii) Mean deviation : It is the average difference from the mean.

$\Sigma (x_i$

iv) Variance : It the absolute squared difference from the mean

$$Var(\delta) = \frac{\Sigma (x_i - \bar{x})^2}{N}$$

v) Standard deviation : It is the square root of variance. ~~The difference from the mean.~~ It is the difference from the mean.

$$\delta^2 = \sqrt{\frac{\Sigma (x_i - \bar{x})^2}{N}}$$

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DTE Code : EN6315

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GROUP OF INSTITUTIONS, PANHALA

NAAC Accredited

Date:- 15/04/2025

## Department of Electronics and Computer Engineering

## SY

## CA-I Attendance

Subject:- DA

| Roll no. | Name of Students | Sign |
|---|---|---|
| 1 | KHARADE UMESH PUNDLIK | Kharade |
| 2 | MAPARI SHUBHAM GAJANAN | Mapari |
| 3 | PATIL VAISHNAVI JAYWANT | Patil |
| 4 | PATIL ROHAN PRALHAD | |
| 5 | PATIL SHWETA SHAHAJI | Patil |
| 6 | RABADE OMKAR SHASHIKANT | |
| 7 | BHOPALE SANSKRUTI SAMBHAJI | S.S.B |
| 8 | DEWARDE VRUSHALI VIKAS | Dewarde |
| 9 | LOHAR SAHIL ANANDA | Sahil |
| 10 | PATIL DISHA PANDHARINATH | Patil |
| 11 | PARTE ASHISH BHIKAJI | |
| 12 | PATIL SNEHA SANDEEP | Spatil |
| 13 | JAMBHALE HARSHDA TUKARAM | Jambhale |
| 14 | KHUTALE VEDANT VILAS | |
| 15 | KANURKAR TEJASWINI SANJAY | TSK |
| 16 | PAWAR ASHVIN ANIL | |
| 17 | KORE VAISHNAVI SHIVAJI | |
| 18 | BENADE VIRAJ SANTOSH | |
| 19 | MANE SHRUTIKA SANTOSH | |
| 20 | GURAV KIRTI ASHOK | |
| 21 | KAGALE SHREYA CHANDRAKANT | |
| 22 | SUSHANT RAJENDRA JADHAV | |
| 23 | SUTAR SNEHAL RAJENDRA | |
| 24 | SHAMBHUSHETTI SRUSHTI SHANTINATH | |
| 25 | BUKSHET SUJAL SUDHIR | |
| 26 | TUSHAR SACHIN KADAM | TSK |
| 27 | PATIL PRATIK BABASO | |
| 28 | PARAB PREM PRAVIN | |
| 29 | PRANALI RAMDAS INGAWALE | |
| 30 | TAMBEKAR SAKSHI DIGAMBAR | SDT |
| 31 | KAMBLE ADITYA ASHOK | |
| 32 | MIRAJKAR ADITYA PRASANNA | |
| 33 | CHOUGALE SANIKA SHIVAJI | S.S.C |
| 34 | BHADVAN BHAGYASHRI SHANKAR | |
| 35 | KARVEKAR ROHIT MAHADEV | |
| 36 | KUMBHAR DIGVIJAY DATTATRAY | Kumbhar |
| 37 | PATIL SANIKA RANGRAO | Patil |
| 38 | DESHPANDE ATHARV JAGADISH | A.J.Deshpande |
| 39 | PATIL RUTUJA ARUN | |
| 40 | CHAVAN ANKITA ARUN | |
| 41 | PRACHI SHESHARAO BHOSALE | PSBhosale |
| 42 | PATIL SATYAM SHARAD | |
| 43 | WARKE SAMRUDDHI SANJAY | Swarke |
| 44 | APARNA DILIP CHOUGALE | |
| 45 | SHAIKH ALFIYA FIROJ | |

Dept. of Electronics and Computer Engineering (Degree) PANHALA

ECE - Sem III AY-2024-25 Odd Sem

| Enrollment No | Name | BTECPC302 - ELECTRONICS DEVICES & CIRCUITS ( CA ) - Theory,Internal | BTECPC302 - ELECTRONICS DEVICES & CIRCUITS ( MID ) - Theory,Internal | BTECPC303 - PROGRAMMING, DATA STRUCTURE AND ALGORITHM USING C ( CA ) - Theory,Internal | BTECPC303 - PROGRAMMING, DATA STRUCTURE AND ALGORITHM USING C ( MID ) - Theory,Internal | BTECPL306 - ELECTRONICS DEVICES & CIRCUITS LAB & PROGRAMMING, DATA STRUCTURE AND | BTECPL306 - ELECTRONICS DEVICES & CIRCUITS LAB & PROGRAMMING, DATA STRUCTURE AND | BTECS307 - SEMINAR-I ( CA ) - Practical,Internal | BTECS307 - SEMINAR-I ( ESE ) - Practical,External | BTES211P - INTERNSHIP - 1 EVALUATION ( INTERNAL ) - Practical,Internal | BTES301 - ENGINEERING MATHEMATICS III ( CA ) - Theory,Internal | BTES301 - ENGINEERING MATHEMATICS III ( MID ) - Theory,Internal | BTESC304 - COMPUTER ARCHITECTURE & OPERATING SYSTEMS ( CA ) - Theory,Internal | BTESC304 - COMPUTER ARCHITECTURE & OPERATING SYSTEMS ( MID ) - Theory,Internal | BTESC305 - DIGITAL ELECTRONICS AND MICROPROCESSOR ( CA ) - Theory,Internal | BTESC305 - DIGITAL ELECTRONICS AND MICROPROCESSOR ( MID ) - Theory,Internal |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Out OF : | 20 | 20 | 20 | 20 | 60 | 40 | 60 | 40 | 0 | 20 | 20 | 20 | 20 | 20 | 20 |
| 23063151844001 | KHARADE UMESH PUNDLIK | 15 | 15 | 15 | 10 | 48 | 32 | 50 | 33 | AU | 20 | 17 | 18 | 10 | 10 | 10 |
| 23063151844002 | MAPARI SHUBHAM GAJANAN | 15 | 15 | 15 | 19 | 55 | 36 | 56 | 37 | AU | 20 | 15 | 19 | 14 | 14 | 15 |
| 23063151844003 | PATIL VAISHNAVI JAYWANT | 19 | 19 | 19 | 20 | 56 | 37 | 56 | 37 | AU | 20 | 16 | 19 | 12 | 12 | 20 |
| 23063151844004 | PATIL ROHAN PRALHAD | 17 | 17 | 17 | 11 | 55 | 36 | 55 | 36 | AU | 20 | 15 | 19 | 15 | 15 | 12 |
| 23063151844006 | PATIL SHWETA SHAHAJI | 19 | 19 | 19 | 20 | 56 | 37 | 56 | 37 | AU | 20 | 10 | 20 | 16 | 16 | 20 |
| 23063151844007 | RABADE OMKAR SHASHIKANT | 16 | 16 | 16 | 15 | 50 | 33 | 51 | 34 | AU | 20 | 16 | 17 | 14 | 14 | 15 |
| 23063151844008 | BHOPALE SANSKRUTI SAMBHAJI | 15 | 15 | 15 | 19 | 56 | 37 | 56 | 37 | AU | 20 | 12 | 20 | 19 | 19 | 16 |
| 23063151844009 | DEWARDE VRUSHALI VIKAS | 19 | 19 | 19 | 18 | 52 | 34 | 53 | 35 | AU | 20 | 14 | 20 | 15 | 15 | 10 |
| 23063151844010 | LOHAR SAHIL ANANDA | 15 | 15 | 15 | 10 | 47 | 31 | 50 | 33 | AU | 20 | 14 | 20 | 15 | 15 | 10 |
| 23063151844011 | PATIL DISHA PANDHARINATH | 19 | 19 | 19 | 20 | 54 | 36 | 54 | 36 | AU | 20 | 12 | 19 | 16 | 16 | 20 |
| 23063151844012 | PARTE ASHISH BHIKAJI | 17 | 17 | 17 | 9 | 50 | 33 | 51 | 34 | AU | 20 | 11 | 17 | 14 | 14 | 19 |
| 23063151844013 | PATIL SNEHA SANDEEP | 20 | 20 | 20 | 20 | 53 | 35 | 54 | 36 | AU | 20 | 14 | 19 | 13 | 13 | 12 |
| 23063151844014 | JAMBHALE HARSHDA TUKARAM | 15 | 15 | 15 | 12 | 47 | 31 | 49 | 32 | AU | 20 | 10 | 17 | 12 | 12 | 12 |
| 23063151844015 | KHUTALE VEDANT VILAS | 17 | 17 | 17 | 10 | 50 | 33 | 50 | 33 | AU | 20 | 10 | 17 | 12 | 12 | 14 |
| 23063151844016 | KANURKAR TEJASWINI SANJAY | 19 | 19 | 19 | 19 | 56 | 34 | 56 | 37 | AU | 20 | 10 | 18 | 15 | 15 | 13 |
| 24061351844513 | SANIKA SHIVAJI CHOUGALE | 16 | 16 | 16 | 15 | 47 | 31 | 48 | 32 | AU | 20 | 10 | 16 | 12 | 12 | 14 |
| 24063151844501 | VIRAJ SANTOSH BENADE | 16 | 16 | 16 | 12 | 51 | 34 | 52 | 34 | AU | 20 | 10 | 19 | 12 | 12 | 10 |
| 24063151844502 | SURAJ SHIVAJI BENAKE | 17 | 17 | 17 | 9 | 51 | 34 | 52 | 34 | AU | 20 | 14 | 19 | 12 | 12 | 16 |
| 24063151844503 | BHAGYASHRI SHANKAR BHADVAN | 16 | 16 | 16 | 15 | 53 | 35 | 54 | 36 | AU | 20 | 18 | 18 | 12 | 12 | 11 |
| 24063151844504 | DARSHAN VILAS BHANAGE | 15 | 15 | 15 | 17 | 54 | 36 | 54 | 36 | AU | 20 | 17 | 18 | 13 | 13 | 10 |
| 24063151844505 | PRACHI SHESHARAO BHOSALE | 18 | 18 | 18 | 9 | 50 | [illegible] | 48 | 32 | AU | 13 | 15 | 16 | 12 | 12 | 14 |

Sem III ECE Odd Sem 2024-25

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

SANJEEVAN GROUP OF INSTITUTIONS * PANHALA *
Dept. of Electronics and Computer Engineering (Degree)

Head of Department
Electronics and Computer Engineering(Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

SANJEEVAN GROUP OF INSTITUTIONS * PANHALA *
Dept. of Computer Science and Engineering (Degree)

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24063151844539 | PATIL PRANJAL PRASHANT | 18 | 18 | 18 | 19 | 50 | 33 | 50 | 33 | AU | 20 | 15 | 16 | 11 | 11 | 14 |
| 24063151844540 | PRATIK PARASO PATIL | 16 | 16 | 16 | 11 | 47 | 31 | 48 | 32 | AU | 20 | 10 | 16 | 11 | 11 | 14 |
| 24063151844541 | RUTUJA ARUN PATIL | 18 | 18 | 18 | 14 | 52 | 34 | 54 | 36 | AU | 20 | 10 | 18 | 12 | 12 | 14 |
| 24063151844542 | SAHIL NAGVANT PATIL | 18 | 18 | 18 | 9 | 50 | 33 | 51 | 34 | AU | 18 | 13 | 19 | 11 | 11 | 11 |
| 24063151844543 | SANIKA RANGRAO PATIL | 14 | 14 | 14 | 15 | 53 | 35 | 55 | 36 | AU | 20 | 17 | 19 | 14 | 14 | 17 |
| 24063151844544 | SANJANA PANDURANG PATIL | 16 | 16 | 16 | 17 | 54 | 36 | 55 | 36 | AU | 20 | 16 | 18 | 13 | 13 | 14 |
| 24063151844545 | SATYAM SHARAD PATIL | 16 | 16 | 16 | 14 | 52 | 34 | 54 | 36 | AU | 20 | 10 | 19 | 12 | 12 | 14 |
| 24063151844546 | SAYALI SACHIN PATIL | 16 | 16 | 16 | 16 | 51 | 34 | 52 | 34 | AU | 20 | 15 | 17 | 12 | 12 | 13 |
| 24063151844547 | SHRUTIKA PRAKASH PATIL | 18 | 18 | 18 | 16 | 55 | 36 | 57 | 38 | AU | 19 | 20 | 18 | 15 | 15 | 18 |
| 24063151844548 | SUMIT PRAKASH PATIL | 17 | 17 | 17 | 12 | 47 | 31 | 47 | 31 | AU | 20 | 10 | 17 | 12 | 12 | 18 |
| 24063151844549 | POWAR SWARANJALI SUNIL | 18 | 18 | 18 | 16 | 55 | 36 | 57 | 38 | AU | 20 | 15 | 20 | 11 | 11 | 15 |
| 24063151844550 | ABHISHEK TUKARAM SASAVADE | 18 | 18 | 18 | 13 | 51 | 34 | 52 | 34 | AU | 20 | 18 | 18 | 13 | 13 | 18 |
| 24063151844551 | ALFIYA FIROJ SHAIKH | 14 | 14 | 14 | 13 | 48 | 32 | 48 | 32 | AU | 20 | 10 | 16 | 12 | 12 | 13 |
| 24063151844552 | SRUSHTI SHANTINATH SHAMBHSHETTI | 18 | 18 | 18 | 14 | 47 | 31 | 48 | 32 | AU | 20 | 10 | 16 | 12 | 12 | 15 |
| 24063151844553 | GAURANGI MAHADEV SURYAVANSHI | 18 | 18 | 18 | 15 | 52 | 34 | 52 | 34 | AU | 20 | 10 | 19 | 12 | 12 | 14 |
| 24063151844554 | SNEHAL RAJENDRA SUTAR | 16 | 16 | 16 | 15 | 50 | 33 | 51 | 34 | AU | 20 | 10 | 19 | 12 | 12 | 15 |
| 24063151844555 | SAKSHI DIGAMBAR TAMBEKAR | 19 | 19 | 19 | 18 | 50 | 33 | 50 | 33 | AU | 20 | 14 | 17 | 12 | 12 | 13 |
| 24063151844556 | SAMRUDDHI SANJAY WARKE | 18 | 18 | 18 | 17 | 52 | 34 | 54 | 36 | AU | 20 | 15 | 17 | 11 | 11 | 10 |
| | Out Of : | 20 | 20 | 20 | 20 | 60 | 40 | 60 | 40 | 0 | 20 | 20 | 20 | 20 | 20 | 20 |
| 24063151844507 | ANKITA ARUN CHAVAN | 16 | 15 | 15 | 10 | 48 | 32 | 50 | 33 | AU | 20 | 17 | 18 | 10 | 28 | 10 |
| 24063151844508 | MANDAR SANJAY CHAVAN | 15 | 14 | 15 | 12 | 47 | 31 | 47 | 31 | AU | 13 | 15 | 16 | 11 | 17 | 11 |
| 24063151844515 | DONGARE VIKRAM RANGRAO | 16 | 16 | 15 | 15 | 47 | 31 | 47 | 31 | AU | 20 | 10 | 16 | 12 | 17 | 11 |

SANJEEVAN GROUP OF INSTITUTIONS Dept. of Electronics and Computer Engineering (Degree) PANHALA

PRINCIPAL
Sanjeevan Group Of Institutions
(Degree Engg.), Somwarpeth, Panhala,
Tal. Panhala, Dist. Kolhapur - 416 201 (M.S.)

Head of Department
Electronics and Computer Engineering(Degree)
Sanjeevan Group of Institutions,
Somwar Peth - Panhala, Dist-Kolhapur, 416201

SANJEEVAN GROUP OF INSTITUTIONS

HOLY-WOOD ACADEMY'S
SANJEEVAN
GROUP OF INSTITUTIONS, PANHALA
DTE Code : ENG315
NAAC Accredited
AICTE ID : 1-8019451
AISHE Code : C-11165
Phone : 9146999500
Approved By AICTE, New Delhi
Recognized by Govt. of
Permanent Affiliation by Dr. Babasaheb Ambedkar Technolo
Affiliated to Shivaji University, Kolhapur, MSBTE, Mumbai

Even sem
2024-25

## Department of Mechanical Engineering

**Date: 07th April 2025**

# NOTICE

## AY: 2024-25, Even Semester

## CA-I Examination

All the faculty members are hereby informed that, the continuous assessment examination shall commence from 11th of April 2025. So all should prepare the Question Paper and submit the soft as well as hard copy to undersigned on or before 08th April 2025.

**Nature of Question Paper:**

Q.1 to Q.5. - Multiple Choice Question of 1 mark.

Q.6. - Descriptive 2 marks.

Q.7. - Descriptive 3 marks.

**Prof. V. D. Thorat**
**Examination Incharge**

**Dr. V. H. Deokar**
**Head of Department**

## Department of Mechanical Engineering

Date: 07th April 2025

# Time - Table

## CA-I Examination (AY: 2024 - 25, Even Semester)

| Date | Time | Class / Subjects | | |
|---|---|---|---|---|
| | | S. Y. | T. Y. | B. Tech. |
| 11/04/2025 | 10:00 am to 10:30 am | Manufacturing Processes – I | Manufacturing Processes – II | Fundamentals of Automotive Systems |
| | 12:00 pm to 12:30 pm | Theory of Machines-I | Machine Design – II | Non-Conventional Energy Resources |
| | 02:30 pm to 03:00 pm | Strength of Materials | Open Elective-II Wind Energy | - |
| 12/04/2025 | 10:00 am to 10:30 am | Elective-I Sheet Metal Engineering | Elective-III Engineering Metrology and Quality Control | - |
| | 12:00 pm to 12:30 pm | - | Elective-IV Robotics | - |
| | 02:30 pm to 03:00 pm | - | - | - |

Prof. V. D. Thorat
Examination Incharge

Dr. V. H. Deokar
Head of Department

## Department of Mechanical Engineering

Date: 07th April 2025

# Supervision Chart

## CA-I Examination (AY: 2024-25, Even Semester)

| Sr. No. | Name of Faculty | 11/04/2025 | | | 12/04/2025 | | | Signature |
|---|---|---|---|---|---|---|---|---|
| | | 10:00 am to 10:30 am | 12:00 pm to 12:30 pm | 02:30 pm to 03:00 pm | 10:00 am to 10:30 am | 12:00 pm to 12:30 pm | 02:30 pm to 03:00 pm | |
| 01 | Dr. V. H. Deokar | √ | √ | - | - | - | - | |
| 02 | Dr. G. C. Koli | √ | - | √ | - | - | - | |
| 03 | Dr. A. A. Katkar | √ | - | - | √ | ✓ | - | |
| 04 | Prof. A. N. Naik | - | - | - | - | - | - | - |
| 05 | Dr. V. V. Vanmore | - | - | - | - | - | - | - |
| 06 | Prof. S. B. Deshmukh | √ | √ | - | ✓ | - | - | |
| 07 | Prof. D. V. Patil | - | √ | ✓ | √ | - | - | |
| 08 | Prof. S. K. Pisal | - | √ | √ | ✓ | - | - | |
| 09 | Prof. P. S. Atigre | - | - | - | - | - | - | P.S.Atigre |
| 10 | Dr. R. U. Urunkar | - | - | √ | - | √ | - | |
| 11 | Prof. V. D. Thorat | - | - | - | - | √ | - | |

**Prof. V. D. Thorat**
**Examination Incharge**

**Dr. V. H. Deokar**
**Head of Department**

| | |
|---|---|
| | DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE |
| | Sanjeevan Group of Institutions, Panhala |
| | **Department of Mechanical Engineering** |
| | **CA-I** |
| SEMESTER: IV | ACADEMIC YEAR: 2024-25 |
| NAME Of STUDENT: | ROLL No.: |
| CLASS: S.Y. B. Tech. | MARKS: 10 |
| DAY & DATE: Friday , 11/04/2025 | TIME: 2:30 to.03:00 PM |
| SUBJECT: Strength of Materials (BTMES404) | |

## INSTRUCTIONS:

1. All questions are compulsory.
2. Circle/Tick the correct answer option for objective questions.

| Q. No. | Questions | CO | PO | BL | Marks |
|---|---|---|---|---|---|
| 1. | **Bulk modulus is applicable for _____**<br>a)Solids b) Liquids<br>c)Gases d) All of the mentioned | 1 | 1 | 1 | 1 |
| 2. | **Hooke's law is applicable within _____**<br>a)Elastic limit b)Plastic limit<br>c)Fracture point d) Ultimate strength | 1 | 1 | 1 | 1 |
| 3. | **The slope of the stress-strain curve in the elastic deformation region is _____**<br>a) Elastic modulus b) Plastic modulus<br>c) Poisson's ratio d) None of the mentioned | 1 | 1 | 1 | 1 |
| 4. | **Which of the following is a dimensionless quantity?**<br>a) Shear stress b) Poison's ratio<br>c) Strain d) Both (b) and (c) | 1 | 1 | 1 | 1 |
| 5. | **The value of Poison's ratio depends upon_____**<br>a) Nature of load, tensile or compressive<br>b) Magnitude of load<br>c) Material of the test specimen<br>d) Dimensions of the test specimen | 1 | 1 | 1 | 1 |

DTE Code : [illegible]

NAAC Accredited

# SANJEEVAN

GROUP OF INSTITUTIONS, PANHALA

## MID TERM EXAMINATION - Summer 2025 TIME TABLE

| Day & Date | Time | Branch Name | Class | Subject Code | Subject Name |
|---|---|---|---|---|---|
| Thursday, 15/05/2025 | 9:30 am To 10:30am | Electronics & Computer Engg | SY | BTECPC 401 | Python Programming |
| | | Computer Sci. & Engg | SY | BTCOC401 | Design and Analysis of Algorithm |
| | | | TY | BTCOC601 | Compiler design |
| | | Civil Engg | SY | BTCVC401 | Building Planning and Drawing |
| | | | TY | BTCVC601 | Design of RC Structures |
| | | | B.Tech | BTCVSS801D | Maintenance and Repair Of Concrete Structures |
| | | Electrical Engg. | SY | BTEEC401 | Network Theory |
| | | | TY | BTEEC601 | Switchgear and Protection |
| | | Mechanical Engg. | SY | BTMC401 | Manufacturing process - I |
| | | | TY | BTMC601 | Manufacturing process - II |
| | | | B.Tech | BTMEC801A | Fundamentals of Automotive systems |
| | 12:30 pm To 01:30 pm | Electronics & Computer Engg | SY | BTECPC402 | Database Management System |
| | | Computer Sci. & Engg | SY | BTCOC402 | Operating System |
| | | | TY | BTCOC602 | Computer Networks |
| | | Civil Engg | SY | BTCVC402 | Environmental Engineering |
| | | | TY | BTCVC602 | Foundation Engineering |
| | | Electrical Engg. | SY | BTEEC402 | Power System |
| | | | TY | BTEEC602 | Electrical Machine Design |
| | | Mechanical Engg. | SY | BTMC402 | Theory of Machines - I |
| | | | TY | BTMC602 | Machine desgin - II |
| | 3:30 pm to 4:30 pm | Electronics & Computer Engg | SY | BTHM403 | Basic Human Rights |
| | | Computer Sci. & Engg | SY | BTHM403 | Basic Human Rights |
| | | | TY | BTCOC603 | Machine learning |
| | | Civil Engg | SY | BTCVC403 | Structural Mechanics - I |
| | | | TY | BTCVES603 | Artificial Intelligence (NPTEL/SWAYAM) |
| | | | B.Tech | BTCVSS802C | Remote Sensing Essentials |
| | | Electrical Engg. | SY | BTEEC403 | Electrical Machine-II |
| | | | TY | BTEEC603 | Control System Engineering |
| | | Mechanical Engg. | SY | BTHM403 | Basic Human Rights |
| | | | TY | BTMPE603D | Elective - III (Engineering Metrology & quaility control |
| | | | B.Tech | BTMEC801F | Non conventional energy resources |
| Friday, 16/05/2025 | 9:30 am To 10:30am | Electronics & Computer Engg | SY | BTBS404 | Probability Theory and Random Processes |
| | | Computer Sci. & Engg | SY | BTBSC404 | Probability and statistics |
| | | | TY | BTCOE604 | Elective - IV |
| | | Civil Engg | SY | BTCVC404 | Water Resources Engineering |
| | | | TY | BTCVC604 | Transportation Engineering |
| | | Electrical Engg. | SY | BTBS404 | Analog and Digital Electronics |
| | | | TY | BTEEPE604 | Group D - Smart Grid Technology |
| | | Mechanical Engg. | SY | BTMES404 | Strength of Materials |
| | | | TY | BTMPE604D | Elective - IV (Robotics) |
| | 12:30 pm To 01:30 pm | Electronics & Computer Engg | SY | BTECPE405 B | Data Analysis |
| | | Computer Sci. & Engg | SY | BTES405 | Digital logic design & Microprocessors |
| | | | TY | BTHM605 | Elective - V |
| | | Civil Engg | SY | BTCVC405 | Hydraulics - II |
| | | | TY | BTCVPE605 | Industrial Waste Treatment |
| | | Electrical Ehgg. | SY | BTEEPE405 | Group A - Advance Renewable Energy Sources |
| | | | TY | BTEEOE605 | Group E - Power Plant Engineering |
| | | Mechanical Engg. | SY | BTMPE405A - C | Elective - I |
| | | | TY | BTMOE 605C | Open elective - II (Energy Conservation and |
| | 3:30 pm to 4:30 | Civil Engg | SY | BTCVC406 | Engineering Geology |
| | | | TY | BTCVOE606 | Basic Human Rights |

| | |
|---|---|
| | **DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE.** |
| | SanjeevanGroup of Institutions, Panhala. |
| | **Department of Mechanical Engineering** |
| | **Mid Semester Examination Summer 2025** |

| | |
|---|---|
| **SEMESTER:** IV | **ACADEMIC YEAR:** 2024-25 |
| **NAME Of STUDENT:** | **PRN.:** |
| **CLASS:** S.Y | **Time :** 09:30 – 10:30 AM |
| **DAY & DATE:** Thursday, 15/05/2025 | **Marks:** 20 |
| **SUBJECT NAME WITH CODE:** Manufacturing Process (BTMEC401) | |

**Instructions to the Students:**

1. **All questions are compulsory**
2. **Assume suitable data if necessary**
3. **Use of non-programmable calculator is allowed**

| Question No. | Sub Question | Question | CO | PO | BL | Marks |
|---|---|---|---|---|---|---|
| 1. | | **Attempt the Following** | | | | 4×1 =4 |
| | a. | Which one of following is permanent mould casting<br>a. Investment casting b. Full mould process<br>c. Vacuum casting process d .Die casting process | 1 | | 2 | 1 |
| | b. | Which of the following is not a casting defect?<br>a. Scar b. Scab c. Hot cracks d. Hot tears | 1 | | 2 | 1 |
| | c. | Which of following methods can be used for manufacturing 2 meter long seamless tube<br>a. Drawing b. Extrusion<br>c. Rolling d. Extrusion and rolling | 2 | | 2 | 1 |
| | d. | Hot working of metal is carried out<br>a. At the re crystallization temperature<br>b. Below re crystallization temperature<br>c. Above re crystallization temperature<br>d. Just above the melting temperature | 3 | | 2 | 1 |
| 2. | | **Solve Any Two Of The Following** | | | | 3 ×2 = 6 |
| | a. | State any four types of patterns | 1 | | 3 | 3 |
| | b. | What is function of core | 1 | | 3 | 3 |
| | c. | Differentiate between hot rolling and cold rolling | 2 | | 3 | 3 |
| 3 | | **Solve Any two of the following** | | | | 5 ×2 = 10 |
| | a. | What are the disadvantages of forging process? Explain why forging is preferred when compared to other machining and welding process | 2 | | 4 | 5 |
| | b. | Differentiate between direct extrusion and indirect extrusion process. | 3 | | 4 | 5 |
| | c. | Explain investment casting process in detail with suitable sketch. | 1 | | 4 | 5 |

********** END **********

## Department of Mechanical Engineering

**Date: 18th June 2025**

# NOTICE

## AY: 2024-25, Even Semester

## CA-II Examination

All the faculty members are hereby informed that, the continuous assessment examination is ,scheduled on 19th of June 2025. So all should prepare the Google Form Question Paper and submit the soft as well as hard copy to undersigned on or before 18th June 2025. The respective subject teacher needs to provide Google form question paper link to students as per CA II Time Table schedule.

**Nature of Examination & Question Paper: Online mode**

Q.1 to Q.10. - Multiple Choice Question of 1 mark.

Thorat

**Prof. V. D. Thorat**
**Examination Incharge**

**Dr. V. H. Deokar**
**Head of Department**

## Department of Mechanical Engineering

Date: 18th June 2025

# Time - Table

## CA-II Examination (AY: 2024 - 25, Even Semester)

| Date | Time | Class / Subjects | | |
|---|---|---|---|---|
| | | S. Y. | T. Y. | B. Tech. |
| Thursday, 19/06/2025 | 10:00 am to 10:30 am | Manufacturing Processes – I | Manufacturing Processes – II | Fundamentals of Automotive Systems |
| | 11:30 pm to 12:00 pm | Theory of Machines-I | Machine Design – II | Non-Conventional Energy Resources |
| | 01:00 pm to 01:30 pm | Strength of Materials | Open Elective-II Wind Energy | - |
| | 02:00 am to 02:30 am | Elective-I Sheet Metal Engineering | Elective-III Engineering Metrology and Quality Control | - |
| | 03:30 pm to 04:00 pm | - | Elective-IV Robotics | - |

Prof. V. D. Thorat
Examination Incharge

Dr. V. H. Deokar
Head of Department

# DR. BABASAHEB AMBEDKAR TECHNICAL UNIVERSITY, LONERE.

## Sanjeevan Group of Institutions, Panhala.

## Department of Mechanical Engineering CA-II EXAMINATION

* Indicates required question

**ACADEMIC YEAR: 2024-25**
**SEMESTER: VI**
**CLASS: T.Y. B. Tech.**
**SUBJECT: MANUFACTURING PROCESSES-II**
**DAY & DATE: Thursday , 19/06/2025**
**MARKS: 10**

1. **Name of student ***

_____

2. **Roll Number ***

_____

3. **PRN Number ***

_____





4. **Q.1 Which of the following method is used to produce powder in powder metallurgy?** 1 point

*Mark only one oval.*

- Mechanical methods
- Chemical methods
- Physical methods
- All of the above

5. **Q.2 _____ is used for adding surface patterns on to a sintered part.** 1 point

*Mark only one oval.*

- Coining
- Sizing
- Plating
- Resintering

6. **Q.3 Which of the following powder production technique involves the use of high-pressure fluid jets?** 1 point

*Mark only one oval.*

- Electrolysis
- Reduction
- Atomization
- Cold stream process