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JAIHIND COMPREHENSIVE EDUCATIONAL INSTITUTE'S

JAIHIND COLLEGE OF ENGINEERING, KURAN

Affiliated to Savitribai Phule Pune University

DTE :- EN6609 SPPU:- CEGP015730



Hon'ble Late Shri. Tejasaheb Gunjal
Founder-Trustee

External Assessment

Transparency in Results of External Assessment



Gat No. 441 Kuran Tal-Junnar Dist-Pune-410511 - Maharashtra
An ISO 9001:2015 QMS ISO 14001:2004 EMS Certified Institute
(Approved by AICTE, New Delhi, Recognised by DTE Mumbai)

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✉ jcoekuran@gmail.com





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DTE :- EN6609 SPPU:- CEGP015730



Hon'ble Late Shri. Tatyasaheb Ganjal
President, P. U. Pune

External Assessment
**University Practical/Oral/TW/
Project Time Table**





Notice

Department of Artificial Intelligence and Data Science Engineering

SE & TE Class External Time Table

OR/PR/Timetable 2023-2024 (2019 Pattern)

Term-II

All SE & TE Class students are here by informed that as per SPPU guidelines PR/OR/TW/PRE Examination for AY 2023-24 SEM-II (Term II) is scheduled from 2nd May to 2024 to 13th May 2024 as per following Time Table.

| SR No. | Date | Time | Course Code | Course Name | PRTW/OR | Internal Faculty Name |
|--------|-------------|----------|-------------|---|---------|-----------------------|
| 1 | 09-May-2024 | 09:30 AM | 317534 | (TE) Software Laboratory-III | PR & TW | Prof.Said S.K. |
| 2 | 08-May-2024 | 09:30 AM | 317533 | (TE) Software Laboratory-II | PR & TW | Prof. Auti M. A. |
| 3 | 11-May-2024 | 09:30 AM | 317539 | (TE) Mini Project | TW & OR | Prof.Said S.K. |
| 4 | 06-May-2024 | 09:30 AM | 217532 | Data Structure & Algorithms Laboratory (SE) | PR & TW | Prof. Auti M. A. |
| 5 | 08-May-2024 | 09:30 AM | 217531 | Internet Of Things Laboratory (SE) | PR & TW | Prof.Said S.K. |

***Note: All Student Should Present at 9.15 AM.**

Exam Coordinator

HOD

JAIHIND COLLEGE OF ENGG. KURAN


DEPARTMENT OF CIVIL ENGG.

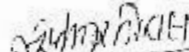
ACADEMIC YEAR 2023-2024 SEM-II

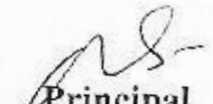
ORAL / PRACTICAL/TW APRIL/MAY 2024

SE CIVIL

| Sr. No. | Year & Pattern | OR/PR | Name of Sub. | Name of Internal | Date | Time |
|---------|--------------------|-------|--------------|-----------------------|------------|--------------------|
| 1 | SE 2019 REGULAR | OR | GTE | Prof. Kamble R. B. | 08/05/2024 | 9:30 am to 4:00 pm |
| 2 | | PR | SUR | Prof. Zope M. T. | 06/05/2024 | 9:30 am to 4:00 pm |
| 3 | | TW | CT | Prof. Bharitkar D. V. | 02/05/2024 | 9:30 am to 4:00 pm |
| 4 | | TW | SA | Prof. Supekar G.S. | 09/05/2024 | 9:30 am to 4:00 pm |
| 5 | | TW | PBL | Prof. Kamble R. B. | 10/05/2024 | 9:30 am to 4:00 pm |


Prof. Bharitkar D.V.
Departmental Exam Coordinator


Head of Department
(Civil Engg.)
JCEI's Jaihind College of Engineering,
Kuran, Tal. Junnar, Dist. Pune


Principal
Principal
JCEI's Jaihind College of Engineering
Kuran, Tal. Junnar, Dist. Pune - 410511

JAIHIND COLLEGE OF ENGG. KURAN
DEPARTMENT OF CIVIL ENGG.
ACADEMIC YEAR 2023-2024 SEM-II
ORAL / PRACTICAL/TW APRIL/MAY 2024
TE CIVIL

| Sr. No. | Year & Pattern | OR/PR | Name of Sub. | Name of Internal | Date | Time |
|---------|--------------------|-------|--------------|-----------------------|-------------------------------------|--------------------|
| 1 | TE 2019 REGULAR | OR ✓ | WWE | Prof. Mehetre S. M. | 03/05/2024 | 9:30 am to 4:00 pm |
| 2 | | OR | DRC | Prof. Bharitkar D. V. | 10/05/2024 10/05/2024 | 9:30 am to 4:00 pm |
| 3 | | TW | RS&GIS | Prof. Dighe S. J. | 03/05/2024 | 9:30 am to 4:00 pm |
| 4 | | TW ✓ | ATP | Prof. Kamble R. B. | 03/05/2024 | 9:30 am to 4:00 pm |
| | | TW | INTERSHIP | Prof. Supekar G.S. | 10/05/2024 | 9:30 am to 4:00 pm |

D. V. Bharitkar
Prof. Bharitkar D. V.
Departmental Exam Coordinator

D. V. Bharitkar
Head HOD Department
(Civil Engg.)
ICEE's Jaihind College of Engineering,
Kuran, Tal-Junnar, Dist. Pune

[Signature]
Principal
ICEE's Jaihind College of Engineering,
Kuran, Tal-Junnar, Dist. Pune - 410511

JAIHIND COLLEGE OF ENGG. KURAN
DEPARTMENT OF CIVIL ENGG.

ACADEMIC YEAR 2023-2024 SEM-II

ORAL / PRACTICAL/TW APRIL/MAY 2024

BE CIVIL

| Sr. No. | Year & Pattern | OR/PR | Name of Sub. | Name of Internal | Date | Time | Change Date |
|---------|--------------------|-------|--------------|----------------------|------------|---------------------|-------------|
| 1. | | OR | DIIS | Prof. Vehtre S.M. | 24-04-2024 | 9:30 am to 04:00 pm | 26/04/24 |
| 2 | | OR | QSCT | Prof. Zope Monika T. | 25-04-2024 | 9:30 am to 04:00 pm | 27/04/24 |
| 3. | BE 2019 REGULAR | TW | HE | Prof. Supekar G.S. | 23-04-2024 | 9:30 am to 04:00 pm | |
| 4. | | TW | PP-II | Prof. Supekar G.S. | 26-04-2024 | 9:30 am to 04:00 pm | 29/04/24 |
| 5. | | OR | PP-II | Prof. Supekar G.S. | 27-04-2024 | 9:30 am to 04:00 pm | 29/04/24 |

Deborah

Prof. Bharitkar D.V.
Departmental Exam Coordinator

Deborah

Head of Department
(Civil Engrg.)

JCE's Jalhind College of Engineering
Kurari, Tal-Junnar, Dist. Palghar

Deborah
Principal

JCE's Jalhind College of Engineering
Kurari, Tal-Junnar, Dist. Palghar



Department of Computer Engineering
Department of Computer Engineering
Second Year Engineering (SE Computer)
OR/PR Timetable 2023-24 (2019 Pattern)

Term-II

All students are hereby informed that as per SPPU guidelines PR/OR/TW/PRE Examination for AY 2023-24 SEM-II (Term II) is scheduled from 02 May 2024 to 12 May 2024 as per following Time Table.

| Sr. No | Date | Time | Name of the Subject | OR/PR | Internal Examiner | Exter Exami |
|--------|-------------|----------|--|-------|---------------------------------------|-------------|
| 1 | 06 May 2024 | 09:30 am | Data Structures Laboratory(210246) | PR,TW | Prof. K. D. Dere | |
| | 08 May 2024 | 09:30 am | Data Structures and Algorithms Lab(210257) | PR,TW | Prof. K. D. Dere | |
| 3 | 09 May 2024 | 09:30 am | Microprocessor Lab (210258) | OR,TW | Prof. M.G. Sinalkar | |
| 4 | 11 May 2024 | 09:30 am | Project Based Learning(210258) | TW | Dr. A. A. Khatri Prof. S.B Bhosale | |

***Note: All Students Should present at 9.15 AM.**

A. Bhatkar
HOD

Head Of Department
Computer Engineering
Jaihind College of Engineering, Kuran,
Tal. Junnar, Dist. Pune-410511

[Signature]
Principal
JCEI's Jaihind College of Engineering
Kuran, Tal. Junnar, Dist. Pune- 410511





External Exam Practical oral Time Table, F | JCOE/Exam/EEOPTT/09

Department of Computer Engineering
Third Year Engineering (TE Computer)
OR/PR Timetable 2023-24 (2019 Pattern)

Term-II

All students are hereby informed that as per SPPU guidelines PR/OR/TW/PRE Examination for AY 2023-24 SEM-II (Term II) is scheduled from 02 May 2024 to 12 May 2024 as per following Time Table.

| S No | Date | Time | Name of the Subject | OR/PR | Internal Examiner | External Examiner |
|------|-------------|----------|---------------------------------|-------|---------------------|-------------------|
| 1 | 11 May 2024 | 09:30 am | DBMSL(310246) | PR,TW | Prof. S. B. Bhosale | |
| 2 | 06 May 2024 | 09:30 am | CN&SL(310247) | OR,TW | Dr. A. A. Khatri | |
| 3 | 08 May 2024 | 09:30 am | DS&BDA Laboratory (310256) | TW,PR | Dr. A. A. Khatri | |
| 4 | 09 May 2024 | 09:30 am | WT Laboratory (310257) | TW,OR | Prof. S. B. Bhosale | |
| 5 | 11 May 2024 | 09:30 am | Laboratory Practice-II (310258) | TW,PR | Prof.S.Y.Mandlik | |
| | 14 May 2024 | 09:30 am | Internship(310255) | TW | Prof.S.Y.Mandlik | |

***Note: All Students Should present at 9.15 AM.**


HOD
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 Jaihind College of Engineering
 Tal. Junnar, Dist. Pune - 410511


Principal
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 Kuran, Tal. Junnar, Dist. Pune - 410511





Department of Computer Engineering

Final Year Engineering (BE Computer)

OR/PR Timetable 2023-24 (2019 Pattern)

Term-II

All students are hereby informed that as per SPPU guidelines PR/OR/TW/PRE Examination for AY 2023-24 SEM-II (Term II) is scheduled from 24th April 24 to 5th June 2024 as per following Time Table.

| Sr. No | Date | Time | Name of the Subject | OR/PR | Internal Examiner | Exter Exami |
|--------|-------------------------------|----------|-----------------------------------|------------|--|--------------------|
| 1 | 26 April 2024 | 09:30 am | Laboratory Practice - III(410246) | PR/TW | Dr. A. A. Khatri | |
| 2 | 27 April 2024 | 09:30 am | Laboratory Practice - IV(410247) | TW | Prof. S. B. Bhosale | |
| | 30 April 2024 | 09:30 am | Project Work Stage -I (410248) | TW | Prof.K.D.Dere | <i>[Signature]</i> |
| 3 | 29 April 2024 & 30 April 2024 | 09:30am | Laboratory Practice -V (410254) | PR/TW | Prof.K.D.Dere | <i>[Signature]</i> |
| 4 | 24 April 2024 | 09:30 am | Laboratory Practice -VI (410255) | OR/*PRE/TW | Prof. S.Y.Mandlik | |
| 5 | 28 May 2024 to 05 June 2024 | 09:30 am | Project Work Stage -II (410256) | OR/PRE/TW | Dr. S.D. Gunjal, Dr. A. A. Khatri Prof.K.D.Dere Prof. S. B. Bhosale | |

***Note: All Students Should present at 9.15 AM.**

Akhata
HOD
 Head Of Department
 Computer Engineering
 Jaihind College of Engineering, Kuran
 Tal. Junnar, Dist. Pune-410511

[Signature]
Principal
 JCEI, Kuran
 Tal. Junnar, Dist. Pune - 410511





Department of Electronics & Telecommunication Engineering

University External PR/OR Examination APR.2024(SE,TE,BE) A.Y.-2023-24 Sem-II

| Sr.No. | Class/Year | Subject Code | External PR/OR Subjects | Date | Total No. of Students | Total External Subjects of the Class/Year | PR/OR/TW for the Subject | Name of The Subject Teacher |
|--------|------------|--------------|---|--------------|-----------------------|---|--------------------------|-----------------------------|
| 1 | BE | 404193 | Innovation & Entrepreneurship | 27-04-24 | 31 | 5 | TW | Prof.Funce P.S. |
| 2 | BE | 404194 | Digital Business management | 25-04-24 | 31 | | TW | Prof.Chaugule Swapnali D. |
| 3 | BE | 404195 | Fiber Optic Communication Lab | 02-05-24 | 31 | | OR | Prof.Rahane S.L. |
| 4 | BE | 404196 | Lab Practice 3(Elective-5) Mobile Computing | 29-04-24 | 31 | | PR | Prof.Funce P.S. |
| 5 | BE | 404197 | Project Stage-II | After Endsem | 31 | | TW & OR | Dr.R.M.Mulajkar |
| 6 | TE | 304196 | Cellular Networks Lab | 09-05-24 | 25 | 4 | OR | Prof.Funce P.S. |
| 7 | TE | 304197 | Power Devices & Circuits Lab | 08-05-24 | 25 | | PR | Prof.Chaugule Sonali D. |
| 8 | TE | 304198 | Elective-II Lab(Digital Image Processing) | 10-05-24 | 25 | | PR | Prof.Chaugule Swapnali D. |
| 9 | TE | 304200 | Mini Project | 02-05-24 | 25 | | TW & OR | Dr.V.M.Dheda |
| 10 | SE | 204196 | Principle of Communication System Lab | 06-05-24 | 70 | 3 | PR | Prof.Rahane S.L. |
| 11 | SE | 204197 | Object Oriented Programming Lab | 02-05-24 | 70 | | OR | Prof.Chaugule Sonali D. |
| 12 | SE | 204198 | Data Analytics Lab | 08-05-24 | 70 | | OR | Prof.Chaugule Swapnali D. |

(Prof. Chaugule Swapnali D.)

Exam Co-ordinator

(Dr. R. M. Mulajkar)
Head of Department
HOD

Department of Electronics & Telecommunication Engineering



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JAIHIND COLLEGE OF ENGINEERING, KURAN

Affiliated to Savitribai Phule Pune University

DTE :- EN6609 SPPU:- CEGP015730



Hon'ble Late Shri. Tatyasaheb Duvjal
Founder-Principal

External Assessment
University Question Paper and Solution



Gat No. 441 Kuran Tal. Junnar Dist. Pune 410511 - Maharashtra
An ISO 9001:2015 QMS ISO 14001:2004 EMS Certified Institute
(Approved by AICTE, New Delhi, Recognised by DTE Mumbai)

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SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO. 116 OF 2024

PROGRAMME OF F.E.(2019 COURSE)(CREDIT SYSTEM)

Examination of MAR/APR-2024

(Under Faculty of SCIENCE AND TECHNOLOGY: B)ENGINEERING)

INSTRUCTIONS FOR CANDIDATES

- Candidates are required to be present at the examination centre, THIRTY MINUTES before the stipulated time.
- Candidates are forbidden from taking any material into the examination hall that can be treated as a malpractice.
- Candidates are requested to see the Notice Board at their center of examination regularly for changes if any that may be notified later in the program.
- No request shall be granted for change in time or date for the University Examination on any ground.
- Candidates are requested to note the Day, Date and Time of Paper.
- Candidates are permitted to use stencils at the time of examination.
- The exchanges of side-rules, drawing instruments of other materials used in the examination hall is not permitted at the time of examination. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
- Use of non-programmable battery operated electronic pocket size Calculator is allowed. The exchange of Calculators is not allowed. Electronics Devices including mobile arc not allowed at the time of examination.
- The written examination will be conducted in the following order.



SEMESTER - I/II

Time:- 10.00 AM To 12.30 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-----------------------------------|
| Wednesday 15-05-2024 | 107001 | ENGINEERING MATHEMATICS-I |
| Thursday 16-05-2024 | 107002 | ENGINEERING PHYSICS |
| Friday 17-05-2024 | 102003 | SYSTEMS IN MECHANICAL ENGINEERING |
| Saturday 18-05-2024 | 107009 | ENGINEERING CHEMISTRY |
| Wednesday 22-05-2024 | 103004 | BASIC ELECTRICAL ENGINEERING |
| Saturday 25-05-2024 | 104010 | BASIC ELECTRONICS ENGINEERING |
| Tuesday 28-05-2024 | 101011 | ENGINEERING MECHANICS |
| Thursday 30-05-2024 | 110005 | PROGRAMMING AND PROBLEM SOLVING |
| Saturday 01-06-2024 | 107008 | ENGINEERING MATHEMATICS - II |
| Monday 03-06-2024 | 102012 | ENGINEERING GRAPHICS |

Ganeshkhind, Pune - 411 007

Ref.No/XCT/223

Date: 02/04/2024

Director,

Board of Examinations and Evaluation

APR./MAY-2024



Page 2 of 2

SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO. 135 OF. 2024

SECOND YEAR ENGINEERING (2019 PATTERN)

END SEM-EXAMINATION TIMETABLE MARCH/APRIL - 2024

(Under Faculty of SCIENCE AND TECHNOLOGY: B) ENGINEERING)

INSTRUCTIONS FOR CANDIDATES

1. Candidates are required to be present at the examination centre, THIRTY MINUTES before the stipulated time.
2. Candidates are forbidden from taking any material into the examination hall that can be treated as a malpractice.
3. Candidates are requested to see the Notice Board at their center of examination regularly for changes if any that may be notified later in the program.
4. No request shall be granted for change in time or date for the University Examination on any ground.
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8. Use of non-programmable battery operated electronic pocket size Calculator is allowed. The exchange of Calculators is not allowed. Electronics Devices including mobile are not allowed at the time of examination.
9. The written examination will be conducted in the following order.



CIVIL ENGINEERING

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--------------------------|
| Thursday 16-05-2024 | 201008 | Geotechnical Engineering |
| Saturday 18-05-2024 | 201009 | Survey |
| Wednesday 22-05-2024 | 201010 | Concrete Technology |
| Saturday 25-05-2024 | 201011 | Structural Analysis |
| Tuesday 28-05-2024 | 201012 | Project management |

SEMESTER - III

Time:-02.00 PM To 04.30 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Wednesday 15-05-2024 | 201001 | Building Technology and Architectural Planning |
| Friday 17-05-2024 | 201002 | Mechanics of structure |
| Tuesday 21-05-2024 | 201003 | Fluid Mechanics |
| Friday 24-05-2024 | 207001 | Engineering Mathematics III |
| Monday 27-05-2024 | 207009 | Engineering Geology |



**ELECTRONICS / ELECTRONICS & TELECOMMUNICATIN
ENGINEERING**

SEMESTER - IV

Time:-02.00 PM To 04.30 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---------------------------------------|
| Thursday 16-05-2024 | 204191 | Signals & Systems * |
| Saturday 18-05-2024 | 204192 | Control Systems |
| Wednesday 22-05-2024 | 204193 | Principles of Communication Systems * |
| Saturday 25-05-2024 | 204194 | Object Oriented Programming * |

SEMESTER III

Time:-02.00 PM To 04.30 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-------------------------------|
| Wednesday 15-05-2024 | 207005 | Engineering Mathematics III * |
| Friday 17-05-2024 | 204181 | Electronic Circuits |
| Tuesday 21-05-2021 | 204182 | Digital Circuits* |
| Friday 24-05-2024 | 204183 | Electrical Circuits |
| Monday 27-05-2024 | 204184 | Data structures |

* Common with Electronics & Computer Engineering



COMPUTER ENGINEERING

SEMESTER - IV

Time: 02.00 PM To 04.30 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|-------------------------------------|
| Thursday 16-05-2024 | 207003 | Engineering Mathematics III # ** |
| Saturday 18-05-2024 | 210252 | Data Structures and Algorithms * |
| Wednesday 22-05-2024 | 210253 | Software Engineering * |
| Saturday 25-05-2024 | 210254 | Microprocessor |
| Tuesday 28-05-2024 | 210255 | Principles of Programming Languages |

SEMESTER - III

Time: 02.00 PM To 04.30 PM

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---------------------------------------|
| Wednesday 15-05-2024 | 210241 | Discrete Mathematics # * |
| Friday 17-05-2024 | 210242 | Fundamentals of Data Structures * |
| Tuesday 21-05-2024 | 210243 | Object Oriented Programming (OOP) # * |
| Friday 24-05-2024 | 210244 | Computer Graphics # * |
| Monday 27-05-2024 | 210245 | Digital Electronics and Logic Design |

Common with COMPUTER SCIENCE & DESIGN ENGINEERING

* Common with ARTIFICIAL INTELLIGENCE & DATA SCIENCE ENGINEERING

** Common with Information Technology Engineering



SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO. 134 OF. 2024

THIRD YEAR ENGINEERING (2019 PATTERN)

Endsem Examination of March / April - 2024

(Under Faculty of SCIENCE AND TECHNOLOGY: B)ENGINEERING)

INSTRUCTIONS FOR CANDIDATES

- Candidates are required to be present at the examination centre, THIRTY MINUTES before the stipulated time.
- Candidates are forbidden from taking any material into the examination hall that can be treated as a malpractice.
- Candidates are requested to see the Notice Board at their center of examination regularly for changes if any that may be notified later in the program.
- No request shall be granted for change in time or date for the University Examination on any ground.
- Candidates are requested to note the Day, Date and Time of Paper.
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- The exchanges of side-rules, drawing instruments of other materials used in the examination hall is not permitted at the time of examination. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
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- The written examination will be conducted in the following order.



CIVIL ENGINEERING

SEM-I

| Day & Date | 2019 Course Time : 10:00 AM To 12:30 PM |
|-------------------------|--|
| Thursday 16-05-2024 | Hydrology and Water Resources Engineering (301001) |
| Saturday 18-05-2024 | Water Supply Engineering (301002) |
| Wednesday 22-05-2024 | Design of Steel Structures (301003) # (Time : 10:00 AM To 01:00 PM) |
| Saturday 25-05-2024 | Engineering Economics and Financial Management (301004) |
| Tuesday 28-05-2024 | ELECTIVE-I Advanced Fluid Mechanics and Hydraulic Machines (301005 a) |
| | ELECTIVE-I Research Methodology and IPR (301005 b) |
| | ELECTIVE-I Construction Management. (301005 c) |
| | ELECTIVE-I Advanced Concrete Technology (301005 d) |
| | ELECTIVE-I Matrix Methods of Structural Analysis (301005 e) |
| | ELECTIVE-I Advanced Mechanics of Structures (301005 f) |

Note : - # Please Note the time

SEM-II

| Day & Date | 2019 Course Time : 10:00 AM To 12:30 PM |
|-------------------------|--|
| Wednesday 15-05-2024 | Waste Water Engineering (301012) |
| Friday 17-05-2024 | Design of RC Structures (301013) # (Time : 10:00 AM To 01:00 PM) |
| Tuesday 21-05-2024 | Remote Sensing and GIS (301014) |
| Friday 24-05-2024 | ELECTIVE-II Advanced Engineering Geology with Rock Mechanics (301015 a) |
| | ELECTIVE-II Soft Computing Techniques (301015 b) |
| | ELECTIVE-II Advanced Surveying. (301015 c) |
| | ELECTIVE-II Advanced Geotechnical Engineering (301015 d) |
| | ELECTIVE-II Architecture and Town Planning (301015 e) |
| | ELECTIVE-II Solid Waste Management (301015 f) |

Note : - # Please Note the time



COMPUTER ENGINEERING

SEM-I

| Day & Date | 2019 Course Time : 10:00 AM To 12:30 PM |
|-------------------------|---|
| Thursday 16-05-2024 | Database Management Systems (310241) * |
| Saturday 18-05-2024 | Theory of Computation (310242) |
| Wednesday 22-05-2024 | Systems Programming and Operating System (310243) |
| Saturday 25-05-2024 | Computer Networks and Security (310244) |
| Tuesday 28-05-2024 | ELECTIVE-I Internet of Things and Embedded Systems (310245 A) |
| | ELECTIVE-I Human Computer Interface (310245 B) * |
| | ELECTIVE-I Distributed Systems (310245 C) |
| | ELECTIVE-I Software Project Management (310245 D) |

Note :- * Common with A.I.D.S.

SEM-II

| Day & Date | 2019 Course Time : 10:00 AM To 12:30 PM |
|-------------------------|---|
| Wednesday 15-05-2024 | Data Science and Big Data Analytics (310251) |
| Friday 17-05-2024 | Web Technology (310252) |
| Tuesday 21-05-2024 | Artificial Intelligence (310253) |
| Friday 24-05-2024 | ELECTIVE-II Information Security (310254 A) |
| | ELECTIVE-II Augmented and Virtual Reality (310254 B) |
| | ELECTIVE-II Cloud Computing (310254 C) * |
| | ELECTIVE-II Software Modeling and Architectures (310254 D)* |

Note :- * Common with A.I.D.S.



Artificial Intelligence and Data Science Engineering

SEM-I

| Day & Date | 2019 Course Time : 10:00 AM To 12:30 PM |
|-------------------------|---|
| Thursday 16-05-2024 | Data Base Management System (310241) * |
| Saturday 18-05-2024 | Computer Networks (317521) |
| Wednesday 22-05-2024 | Web Technology (310252) |
| Saturday 25-05-2024 | Artificial Intelligence (310253) |
| Tuesday 28-05-2024 | ELECTIVE-I Embedded Systems & Security (317522 A) |
| | ELECTIVE-I Design Thinking (314445 C) ** |
| | ELECTIVE-I Pattern Recognition (317522 B) |
| | ELECTIVE-I Human Computer Interface (310245 B) * |

Note :- * Common with Computer Engineering

** Common with Information Technology

SEM-II

| Day & Date | 2019 Course Time : 10:00 AM To 12:30 PM |
|-------------------------|--|
| Wednesday 15-05-2024 | Data Science (317529) |
| Friday 17-05-2024 | Cyber security (317530) |
| Tuesday 21-05-2024 | Artificial Neural Network (317531) |
| Friday 24-05-2024 | ELECTIVE-II Robotics and Automation (317532 A) |
| | ELECTIVE-II Natural Language Processing (317532B) |
| | ELECTIVE-II Cloud Computing (310254 C) * |
| | ELECTIVE-II Software Modeling and Architecture (310254 D)* |

Note :- * Common with Computer Engineering



ELECTRONICS & TELECOMMUNICATION ENGINEERING

SEM-I

| Day & Date | 2019 Course Time : 10:00 AM To 12:30 PM |
|--|--|
| Thursday 16-05-2024 | Digital Communication (304181) |
| Saturday 18-05-2024 | Electromagnetic Field Theory (304182) |
| Wednesday 22-05-2024 | Database Management (304183) * |
| Saturday 25-05-2024 | Microcontrollers (304184) |
| Tuesday 28-05-2024 | ELECTIVE-I Digital Signal Processing (304185) |
| | ELECTIVE-I Electronic Measurements (304185) |
| | ELECTIVE-I Fundamentals of JAVA Programming (304185) * |
| | ELECTIVE-I Computer Networks (304185) |
| Note :- * Common with Electronics | |

SEM-II

| Day & Date | 2019 Course Time : 10:00 AM To 12:30 PM |
|--|---|
| Wednesday 15-05-2024 | Cellular Networks (304192) |
| Friday 17-05-2024 | Project Management (304193) |
| Tuesday 21-05-2024 | Power Devices & Circuits (304194) |
| Friday 24-05-2024 | ELECTIVE-II Digital Image Processing (304195) |
| | ELECTIVE-II Sensors in Automation (304195) |
| | ELECTIVE-II Advanced JAVA Programming (304195) * |
| | ELECTIVE-II Embedded Processors (304195) |
| | ELECTIVE-II Network Security (304195) |
| Note :- * Common with Electronics | |



MECHANICAL ENGINEERING

SEM-I

| Day & Date | 2019 Course Time : 10:00 AM To 12:30 PM |
|-------------------------|---|
| Thursday 16-05-2024 | Numerical & Statistical Methods (302041) * |
| Saturday 18-05-2024 | Heat & Mass Transfer (302042) * |
| Wednesday 22-05-2024 | Design of Machine Elements (302043) * |
| Saturday 25-05-2024 | Mechatronics (302044) * |
| Tuesday 28-05-2024 | ELECTIVE-I Advanced Forming & Joining Processes (302045-A) ** |
| | ELECTIVE-I Machining Science & Technology (302045-B) ** |

NOTE: * Common to Mechanical Sandwich Engineering
** Common to Automobile Engineering

SEM-II

| Day & Date | 2019 Course Time : 10:00 AM To 12:30 PM |
|-------------------------|---|
| Wednesday 15-05-2024 | Artificial Intelligence & Machine Learning (302049) |
| Friday 17-05-2024 | Computer Aided Engineering (302050) |
| Tuesday 21-05-2024 | Design of Transmission Systems (302051) # (Time : 10:00 AM To 01:00 PM) |
| Friday 24-05-2024 | ELECTIVE-II Composite Materials (302052-A) |
| | ELECTIVE-II Surface Engineering (302052-B) |

Note : - # Please Note the time



SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)



EXAMINATION CIRCULAR NO.117 OF, 2024
BACHELOR OF ENGINEERING(2019 COURSE)
Examination of APR./MAY.-2024

(Under Faculty of SCIENCE AND TECHNOLOGY : B)ENGINEERING)

INSTRUCTIONS FOR CANDIDATES

- Candidates are required to be present at the examination centre, THIRTY MINUTES before the stipulated time.
- Candidates are forbidden from taking any material into the examination hall that can be treated as a malpractice.
- Candidates are requested to see the Notice Board at their center of examination regularly for changes if any that may be notified later in the program.
- No request shall be granted for change in time or date for the University Examination on any ground.
- Candidates are requested to note the Day, Date and Time of Paper.
- Candidates are permitted to use stencils at the time of examination.
- The exchanges of side-rules, drawing instruments of other materials used in the examination hall is not permitted at the time of examination. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
- Use of non-programmable battery operated electronic pocket size Calculator is allowed. The exchange of Calculators is not allowed. Electronics Devices including mobile are not allowed at the time of examination.
- The written examination will be conducted in the following order.



B.E. CIVIL

SEMESTER - VII

Time:- 2.00 PM. TO 4.30 PM.

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Thursday 09/05/2024 | 401001 | Foundation Engineering |
| Tuesday 14/05/2024 | 401002 | Transportation Engineering |
| Saturday 18/05/2024 | 401003 A | (ELECTIVE - III) Coastal Engineering |
| | 401003 B | (ELECTIVE - III) Advanced Design of Concrete Structures Time:- 2.00 PM. TO 5.00 PM. |
| | 401003 C | (ELECTIVE - III) Integrated Water Resources Planning & Management |
| | 401003 D | (ELECTIVE - III) Finite Element Method |
| | 401003 E | (ELECTIVE - III) Data Analytics |
| | 401003 F | (ELECTIVE - III) Operation Research |
| Wednesday 22/05/2024 | 401004 A | (ELECTIVE - IV) Air Pollution and Control |
| | 401004 B | (ELECTIVE - IV) Advanced Design of Steel Structures Time:- 2.00 PM. TO 5.00 PM. |
| | 401004 C | (ELECTIVE - IV) Statistical Analysis and Computational Method |
| | 401004 D | (ELECTIVE - IV) Airport and Bridge Engineering |
| | 401004 E | (ELECTIVE - IV) Design of Prestressed Concrete Structures Time:- 2.00 PM. TO 5.00 PM. |
| | 401004 F | (ELECTIVE - IV) Formwork and Plumbing Engineering |

NOTE:-

* PLEASE NOTE THE TIME



B.E. CIVIL

SEMESTER - VIII

Time:- 2.00 PM. TO 4.30 PM.

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Wednesday 08/05/2024 | 401011 | Dams and Hydraulics Structures |
| Saturday 11/05/2024 | 401012 | Quantity Surveying, Contracts and Tenders Time:- 2.00 PM. TO 5.00 PM. |
| Friday 17/05/2024 | 401013 A | (ELECTIVE - V) Earthquake Engineering |
| | 401013 B | (ELECTIVE - V) Structural Design of Bridges |
| | 401013 C | (ELECTIVE - V) Irrigation and Drainage |
| | 401013 D | (ELECTIVE - V) Design of Precast and Composite Structures |
| | 401013 E | (ELECTIVE - V) Hydropower Engineering |
| | 401013 F | (ELECTIVE - V) Structural Audit and Retrofitting of Structures |
| Tuesday 21/05/2024 | 401014 A | (ELECTIVE - VI) TQM and MIS |
| | 401014 B | (ELECTIVE - VI) Advanced Transportation Engineering |
| | 401014 C | (ELECTIVE - VI) Geo Synthetic Engineering |
| | 401014 D | (ELECTIVE - VI) Structural Design of Foundations |
| | 401014 E | (ELECTIVE - VI) Green Structures and Smart Cities |
| | 401014 F | (ELECTIVE - VI) Rural Water Supply and Sanitation |

NOTE:-

* PLEASE NOTE THE TIME

APR./MAY-2024



B.E. COMPUTER

SEMESTER - VII

Time:- 2.00 PM. TO 4.30 PM.

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Thursday 09/05/2024 | 410241 | Design and Analysis of Algorithms |
| Tuesday 14/05/2024 | 410242 | Machine Learning |
| Thursday 16/05/2024 | 410243 | Blockchain Technology |
| Saturday 18/05/2024 | 410244 A | (ELECTIVE - III) Pervasive Computing |
| | 410244 B | (ELECTIVE - III) Multimedia Techniques |
| | 410244 C | (ELECTIVE - III) Cyber Security and Digital Forensics |
| | 410244 D | (ELECTIVE - III) Object Oriented Modeling and Design |
| | 410244 E | (ELECTIVE - III) Digital Signal Processing |
| Wednesday 22/05/2024 | 410245 A | (ELECTIVE - IV) Information Retrieval |
| | 410245 B | (ELECTIVE - IV) GPU Programming and Architecture |
| | 410245 C | (ELECTIVE - IV) Mobile Computing |
| | 410245 D | (ELECTIVE - IV) Software Testing and Quality Assurance |
| | 410245 E | (ELECTIVE - IV) Compilers |

SEMESTER - VIII

Time:- 2.00 PM. TO 4.30 PM.

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Wednesday 08/05/2024 | 410250 | High Performance Computing |
| Saturday 11/05/2024 | 410251 | Deep Learning |
| Friday 17/05/2024 | 410252 A | (ELECTIVE - V) Natural Language Processing |
| | 410252 B | (ELECTIVE - V) Image Processing |
| | 410252 C | (ELECTIVE - V) Software Defined Networks |
| | 410252 D | (ELECTIVE - V) Advanced Digital Signal Processing |
| Tuesday 21/05/2024 | 410253 A | (ELECTIVE - VI) Pattern Recognition |
| | 410253 B | (ELECTIVE - VI) Soft Computing |
| | 410253 C | (ELECTIVE - VI) Business Intelligence |
| | 410253 D | (ELECTIVE - VI) Quantum Computing |



B.E. ELECTRONICS & TELECOMMUNICATION

SEMESTER - VII

Time:- 2.00 PM. TO 4.30 PM.

| Day & Date | Paper Code | Subject |
|-------------------------|------------|--|
| Thursday 09/05/2024 | 404181 | Radiation & Microwave Theory |
| Tuesday 14/05/2024 | 404182 | VLSI Design and Technology |
| Thursday 16/05/2024 | 404183 | Cloud Computing |
| Saturday 19/05/2024 | 404184 A | (ELECTIVE - III) Speech Processing |
| | 404184 B | (ELECTIVE - III) PLC SCADA & Automation |
| | 404184 C | (ELECTIVE - III) JAVA Script |
| | 404184 D | (ELECTIVE - III) Embedded & RTOS |
| | 404184 E | (ELECTIVE - III) Modernized IoT |
| Wednesday 22/05/2024 | 404185 A | (ELECTIVE - IV) Data Mining |
| | 404185 B | (ELECTIVE - IV) Electronic Product Development |
| | 404185 C | (ELECTIVE - IV) Deep Learning |
| | 404185 D | (ELECTIVE - IV) Low Power CMOS |
| | 404185 E | (ELECTIVE - IV) Smart Antennas |

SEMESTER - VII

Time:- 2.00 PM. TO 4.30 PM.

| Day & Date | Paper Code | Subject |
|-------------------------|------------|---|
| Wednesday 08/05/2024 | 404190 | Fiber Optic Communication |
| Friday 17/05/2024 | 404191 A | (ELECTIVE - V) Biomedical Signal Processing |
| | 404191 B | (ELECTIVE - V) Industrial Drives & Automation |
| | 404191 C | (ELECTIVE - V) Android Development |
| | 404191 D | (ELECTIVE - V) Embedded System Design |
| | 404191 E | (ELECTIVE - V) Mobile Computing |
| Tuesday 21/05/2024 | 404192 A | (ELECTIVE - VI) System on Chip |
| | 404192 B | (ELECTIVE - VI) Nano Electronics |
| | 404192 C | (ELECTIVE - VI) Remote Sensing |
| | 404192 D | (ELECTIVE - VI) Digital Marketing |





JAIHIND COMPREHENSIVE EDUCATIONAL INSTITUTE'S

JAIHIND COLLEGE OF ENGINEERING, KURAN

Affiliated to Savitribai Phule Pune University

DTE :- EN6609 SPPU:- CEGP015730



Hon'ble Late Shri. Tatyasaheb Gunjal
Founder-Practitioner

External Assessment

University Theory Examination Time Table



Total No. of Questions: 8]

SEAT No. :

PB2235

[6263]-73

[Total No. of Pages :3

B.E.(Civil)

HYDROPOWER ENGINEERING

(2019 Pattern) (Semester-VIII) (Elective-V) (401013-E)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.
- 2) Figures to the right side indicate full marks.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Assume Suitable data if necessary.
- 5) Use of logarithmic tables, slide rule, Mollier charts, electronic pocket calculator (non-programmable) and steam tables is allowed.

- Q1) a) Explain with neat sketch load curve [5]
- b) Define [6]
- i) Connected load,
 - ii) Diversity factor
 - iii) Maximum demand
- c) A pelton wheel of 3m runner works under a head of 800m. It runs at 60r.p.m. The discharge rate into the runner is $3\text{m}^3/\text{s}$ Find [6]
- i) Input power to runner
 - ii) Shaft power from runner having mechanical efficiency of 92%
 - iii) Net power output if generator is 96% efficient
 - iv) Specific speed of turbine
 - v) Number of turbine needed to generate 100MW

OR

- Q2) a) A diesel power Plant consists of two units of 500KW capacities and one unit of 200KW. The fuel used has calorific value of 4,0000 Kj/kg and fuel consumption is 0.25kg/kwh. Determine quantity of fuel required for a month of 30 days and its cost if cost is rs. 4000/ton. Take capacity factor of plant as 50% and also find overall efficiency of plant. [6]
- b) Advantages and disadvantages of Hydro Power Plants over other Power Plants. [6]
- c) Explain method of fixing installed capacity of hydroelectric power plant. [5]

P.T.O.

- Q3) a) Sketch the details of typical power house and show all components. State functions of all components. [7]
- b) State advantages and disadvantages of underground power house. [4]
- c) What are the types of underground power stations? Explain any one type with neat sketch. [6]

OR

- Q4) a) What are the safety requirements of power house? [5]
- b) What is instrumentation in power house? How instrumentation and control is achieved in case of powerhouse? [6]
- c) Explain different methods of air cooling of generators. [6]

- Q5) a) Write short notes on [6]
- i) Governing of Turbines
- ii) Water hammer in turbines
- b) A pelton wheel works under a head of 300m and the total discharge available through the jets is $5\text{ m}^3/\text{s}$. Turbine uses two runners and two jets of equal diameter per runner. The coefficient of velocity of each jet is 0.98. Hydraulic efficiency of each runner is 92%. Find the diameter of each jet power developed of each jet and power by turbine. [6]
- c) Differentiate between Impulse turbine and Reaction turbine. [6]

OR

- Q6) a) What is draft tube? What are the functions of draft tube? Explain different types with figures and draft tube theory? [6]
- b) What is Cavitation Explain effects of cavitation [6]
- c) A turbine is to operate under 30m head at 250rpm. The discharge is $9\text{ m}^3/\text{s}$. If the efficiency of the turbine is 85%. Determine. [6]

- i) power generated
- ii) specific Speed
- iii) type of turbine
- iv) output under head of 25m

- Q7) a) Explain the concept of carbon credit? Give its significance. [6]
b) What are the factors governing the pricing of electricity. [6]
c) What are the fixed and running charges in economic analysis of a hydropower plant. [6]

OR

- Q8) a) What are the provisions related to safety and electricity supply as per electricity act 2003? [6]
b) What are the duties of electricity generation companies? [6]
c) Explain types of tariffs for hydropower plants. [6]



46

Q-1

a) Load curve

→ In order to plan the capacity of a plant to supply to various types of consumers, the following information is necessary with regard to the load.

- a) Present load to be supplied
- b) Growth of the demand to be anticipated called future load
- c) Location of type of load i.e domestic Industrial essential loads.

b) Define

- i) Connected Load
- ii) Diversity Factor
- iii) Maximum demand

→ It represents the sum of the ratings of all the equipments in kW installed in the premises of a consumer & connected to power supply.

→ power generated by at the power plant is supplied to various types of consumers like domestic, Industrial, Commercial, agriculture etc. through a network of substations feeders transformers etc.

→ maximum load demand represent the maximum load consumer uses at any time. The maximum demand will be equal to be connected load of a consumer if all the requirements equipments

if appliances are run to their full extent simultaneously

Q.1

c)

→

$$D = 3\text{m}, H = 800\text{m}, N = 60\text{r.p.m.}$$
$$Q = 3\text{m}^3/\text{s}$$

(i) Input power, P_i

$$P_i = \frac{\rho \cdot g \cdot Q \cdot H}{1000} \text{ (kW)} = \frac{1000 \times 9.81 \times 3 \times 800}{1000}$$
$$= 23544 \text{ kW}$$

(ii) shaft power, P_s if $\eta_m = 0.92$

$$P_s = \eta_m \cdot P_i$$
$$= 0.92 \times 23544 = 21660.5 \text{ kW}$$

(iii) Net power output, P_o if $\eta_g = 0.96$

$$P_o = \eta_g \cdot P_s$$
$$= 0.96 \times 21660.5 = 20794 \text{ kW}$$

(iv) specific speed, N_s

$$N_s = \frac{N \sqrt{P}}{H^{5/4}} \text{ [P = } P_s] = \frac{60 \sqrt{21660}}{(800)^{5/4}}$$
$$= 2.075$$

v) No. of turbines required, n if

$$P_{ol} = 100 \text{ MW}$$
$$P_{ol} = 100 \times 10^3 \text{ (kW)}$$

$$n = \frac{\text{power output / turbine}}{P_{ol}} = \frac{21660.5}{100 \times 10^3}$$

= 4.618T say 5 turbines.

a₂-2

a

→

Capacity of diesel power plants.

$$C_1 = 500 \text{ kW}, C_2 = 500 \text{ kW}, C_3 = 200 \text{ kW}$$

$$C.V = 40,000 \text{ kg/kg}$$

$$\text{Fuel Consumption (sfc)} = 0.25 \text{ kg/kWh}$$

$$\text{Capacity factor} = 0.5$$

$$\text{Cost of fuel} = \text{Rs. } 4000 / \text{ton}$$

$$= \frac{4000}{1000} = \text{RS } 4 / \text{kg}$$

1. Quantity of fuel required for 30 days

Total capacity of plants

$$C = 2 \times 500 + 200 = 1200 \text{ kW}$$

$$\text{Energy Consumed / month } E = \frac{\text{Capacity} \times \text{Capacity factor} \times \text{Time}}{C.V}$$

$$\therefore 0.5 = \frac{1200 \times (30 \text{ days} \times 24 \text{ hrs / day})}{E}$$

$$E = 432000 \text{ kWh}$$

Total fuel consumed,

$$m_f = E \times \text{sfc} = 432000 \times 0.25 \\ = 108000 \text{ kg / month}$$

2. Cost of fuel / month.

$$\text{Total} = m_f \times \text{cost of fuel / kg} \\ = 108000 \times 4 = \text{RS. } 432000$$

8. overall efficiency, η_o

$$\eta_o = \frac{\text{power output}}{\text{fuel consumption} \times \text{C.O.V}}$$

$$= \frac{1}{\text{SFC} \times \text{C.O.V}} = \frac{1}{\left(\frac{0.25}{3600}\right) \times 40000}$$

$$= 0.36 \text{ or } 36\%$$

Q32]

b) Advantages & disadvantages of hydro-power plants over other power plants.

Advantages :-

- i) Through its capital cost is comparatively high but its operation cost is much less. due to this the cost of power generation per unit is low.
- ii) These plants are more reliable.
- iii) Starting & stopping of these plants takes very short time compared to steam & nuclear power plants.
- iv) The life expectancy is higher it is about 50 years.

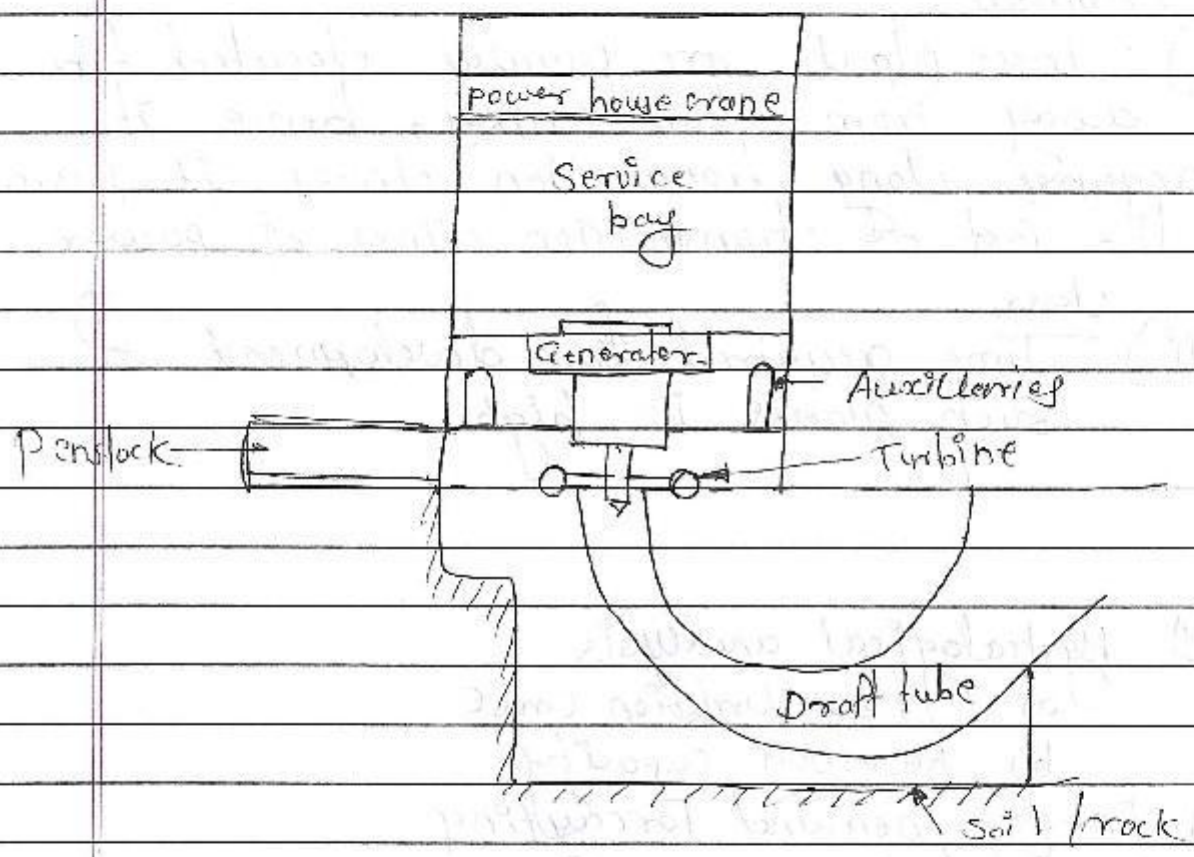
Disadvantages :-

- i) The total power developed depend upon the availability of quantity of water, therefore, these are dependent on rainfall.
- ii) These plants are usually located far away from load centres, hence it requires long transmission lines. It increases the cost of transmission lines of power class.
- iii) Time required for development of such plants is high.

Q32)

- c) 1) Hydrological analysis
 - a) Flow duration curve
 - b) Reservoir capacity
- 2) Energy Demand Forecasting
 - a) Load curve analysis
 - b) Growth projections
- 3) Technical & Economic Feasibility
 - a) cost-benefit analysis
 - b) Return on investment
- 4) Environmental & Regulatory constraints
 - a) Environmental Impact assessment
 - b) Regulatory Compliance
- 5) Site specific conditions
- 6) Technological advancements
- 7) Flexibility & scalability

Q.3)
 a) Details of typical power house & show all components, functions of all components
 →



Substructure :- It is that part of structure of a power house which is situated below the turbine level upto the soil.
 Its purpose is to facilitate the discharge of the turbine through the draft tube upto tail race in case of reaction turbines.

Intermediate structure :-

The space between the top of generator upto the top of draft tube is called the Intermediate structure of power house.

The turbine floor is kept below the generator floor & it is accessible through stairs from the generator floor.

Superstructure :-

The space above the top of generator floor upto the roof of power house is called Superstructure. It houses the main travelling gantry crane at roof level, control room, exciter, transformers & other auxiliary equipment.

Q:3
b)

Advantages & Disadvantages of underground power house.

Advantages :-

- 1) They allow greater operating heads, thus improved power output & efficiency.
- 2) They are safe against the bomb attacks.
- 3) They are safe against the rock & earth slips or snow avalanches.
- 4) It does not affect the scenic beauty of site.

Disadv

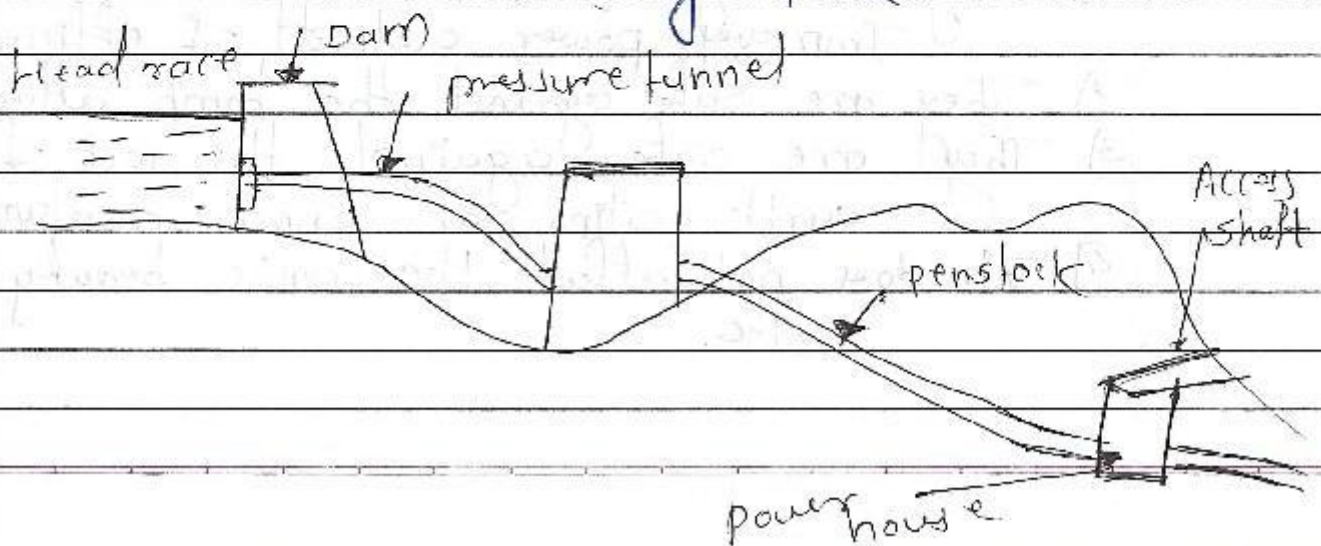
- 1) Cost of construction of power station & accessories is high
- 2) It requires increased lighting, special ventilation & air conditioning
- 3) The construction of additional tail race channel & downstream surge tank work out to be costly.

Q13]

c) Types of underground power stations.

- i) Free level tail race tunnel without a downstream surge tank
- ii) upstream power house arrangement with downstream surge tank or Swedish type or head development
- iii) Downstream station or tail race development or alpine type.
- iv) Intermediate station arrangement.

★ Free level tail race tunnel without a downstream surge tank.



Q4

a) Safety requirements of power house.

-
- 1) personal protective Equipment
 - 2) Fire safety
 - 3) Electrical safety
 - 4) Mechanical safety
 - 5) Hazardous material handling
 - 6) Work Environment
 - 7) Emergency preparedness
 - 8) Training & Education
 - 9) Regulatory Compliance

Q5

b)

→ 1) mechanical Instruments

2) Electrical & electronic Instruments

3) Various types of measuring & recording Instruments used in operation of power plants are as follows.

1) Pressure

2) speed

3) Temperature

4) purity of water

5) Flow measurement

Q-4]

a) Different methods of air cooling of generator
→ open system using air
→ closed system using air

open system

In this method, the cold air from the surroundings is supplied by a fan & passed through the machine. The hot air coming out of the machine is discharged either to the atmosphere or it can be used for warming the power station in cold climates.

b) closed system using air

In this method, the cooling air is circulated through ducts in the stator & along the air gap.

The hot air from generator is discharge through a water cooled heat exchanger in order to reduce the temperature of hot air to about 35°C to 40°C .

Q.35

- a) Governing of turbines
- b) Water hammer in turbines

A) →

i) The load on the generator keeps on fluctuating while the input power to the turbine is constant, therefore, the speed of turbine will either increase or decrease with the decrease or increase of load respectively.

ii) This turn will fluctuate the speed of generator which is not desirable because it would vary its frequency & voltage.

iii) In order to run the generator at constant speed, the turbine speed is required to be maintained under variable load conditions.

B) Water hammer in turbines

Q35

c) Impulse turbine

1) It works on the principle of impulse. Therefore, it follows the impulse.

2) All the available head is first converted into kinetic energy in nozzles.

3) Water from nozzles comes out in the form of jet which impinges on the buckets of runner.

4) Flow of water over the runner is at constant atmospheric pressure.

Reaction turbine

1) It works on the principle of impulse & reaction. Therefore, it follows the law of angular momentum.

2) Only part of available head is converted into kinetic energy in guide vanes.

3) Water is guided by the guide blades. It flows over the moving vanes.

4) Flow of water over the runner is under pressure which gradually decreases from inlet to outlet.

Q.36]

a)
→

Draft tube, functions, types, draft tube theory

A draft tube is a pipe of gradually increasing diameter which connects the exit of runner of a turbine to the tail race.

In case of pelton wheel the available head is converted into kinetic energy before entry to runner buckets & the turbine operate under atmospheric pressure conditions.

Types of draft tube

- 1) Conical draft tube
- 2) simple elbow draft tube
- 3) Elbow draft tube with circular inlet
- 4) Moody's spreading draft tube.

Draft tube theory :-

$$\frac{P_2}{\omega} = \frac{P_1}{\omega} - \left[H_s + \left(\frac{V_2^2 - V_3^2}{2g} \right) \right] h_f$$

Q.6

b)

→

Cavitation, Effects of Cavitation.

only reaction turbines are subjected to cavitation. The cavitation may occur at Inlet of draft tube where the pressure is considerably reduced which may be below the vapour pressure of the liquid flowing through the turbine.

The phenomenon of cavitation is defined as the formation of vapour filled bubbles of a flowing fluid in a region where the pressure of liquid falls below its vapour pressure.

• Effects of cavitation

- i) Flow pattern of fluid is modified with reduced flow rate.
- ii) pitting & erosion of metal parts
- iii) power & efficiency of turbine decrease due to cavitation.

→

A turbine is to operate under 30m head at 250 rpm.

$$H = 30\text{m}, \quad n = 250\text{rpm}, \quad Q = 9\text{m}^3/\text{s}$$

$$\eta = 0.85$$

i) power generated, P

$$P = \rho \cdot g \cdot Q \cdot H \cdot \eta \times 10^3 \text{ (kW)}$$

$$1000 \times 9.81 \times 9 \times 30 \times 0.85 \times 10^3 = 2251.4 \text{ kW}$$

(i) specific speed, N_s

$$N_s = \frac{N \sqrt{P}}{H^{5/4}} = \frac{250 \sqrt{2251.4}}{(30)^{5/4}} = 55.895$$

iii) type of turbine
($H < 50 \text{ m}$)

iv) output P_1 under head $H_1 = 25 \text{ m}$

N must be equal

unit speed $\propto \sqrt{H}$

$$\frac{N}{\sqrt{H}} = \frac{N_1}{\sqrt{H_1}} ; \frac{250}{\sqrt{30}} = \frac{N_1}{\sqrt{25}}$$

$$N_1 = 228.22 \text{ rpm}$$

unit discharge, $Q_u = \frac{Q}{H}$ must be equal.

$$\frac{Q}{H} = \frac{Q_1}{\sqrt{H_1}} ; \frac{Q}{30} = \frac{Q_1}{\sqrt{25}}$$

$$Q_1 = 18.216 \text{ m}^3/\text{s}$$

Specific speed, $N_s = \frac{N \sqrt{P}}{H^{5/4}}$

$$P_1 = 1963.64 \text{ kW}$$

$$\frac{N \sqrt{P}}{H^{5/4}} = \frac{N_1 \sqrt{P_1}}{H_1^{5/4}}$$

$$\frac{250 \sqrt{2251.64}}{(30)^{5/4}} = \frac{228.22 \sqrt{P_1}}{(25)^{5/4}}$$

Q.5]

c)

→ Total discharge, $Q = 5 \text{ m}^3/\text{s}$, $H = 300 \text{ m}$

Number of jets, runner $n = 2$; Number of runner

$n_1 = 2$, $C_u = 0.98$; $h_p = 92\% = 0.92$

(i) Diameter of each jet, d

Discharge per jet, Q_1

$Q = \frac{Q_1}{\text{No. of jets/runner} \times \text{No. of runner}}$

$$= \frac{5}{2 \times 2}$$

$$= 1.25 \text{ m}^3/\text{s}$$

Velocity of jet

$$v_1 = C_u \sqrt{2gh} = 0.98 \times \sqrt{2 \times 9.81 \times 300}$$

$$= 75.19 \text{ m/s}$$

But,

$Q = A v_1 = \frac{\pi}{4} \times d^2 \times v_1$

$1.25 = \frac{\pi}{4} \times d^2 \times 75.19$

$\therefore d = 0.1455 \text{ m}$

$$= 14.55$$

ii) power developed by turbine, P

$$\begin{aligned} \text{Hydraulic power, } P_1 &= \rho \cdot Q \cdot g \cdot H \\ &= 1000 \times 5 \times 9.81 \times 300 \\ &= 14735 \times 10^3 \text{ W} = 14735 \text{ kW} \end{aligned}$$

$$\text{Hydraulic efficiency, } \eta_h = \frac{\text{Power developed, } P}{\text{Hydraulic power, } P_1}$$

$$\begin{aligned} P &= \eta_h \times P_1 = 0.92 \times 14735 \\ &= 13537.8 \text{ kW} \end{aligned}$$

Q58]

- a)
- i) Removed the need for licence for power generation projects
 - ii) Encouraged competition through International competitive bidding
 - iii) participation of private sector in transmission of power lines as a separate activity.
 - iv) Tax holiday for 10 years out of 15 years of operation of power lines as a separate activity.
 - v) permitted 100% FDI in power sector.
 - vi) selling bulk power to the grid or other person.

22.51 =

(ii) power developed by turbine P

Hydraulic power, $P = \rho \cdot g \cdot H \cdot Q$
 $= 1000 \times 9.81 \times 10 \times 0.1$
 $= 9810 \text{ W} = 9.81 \text{ kW}$

Hydraulic efficiency, $\eta = \frac{\text{Power developed}}{\text{Hydraulic power}}$

$0.85 = \frac{P}{9.81 \times 10^3}$
 $P = 0.85 \times 9.81 \times 10^3$
 $= 8338.5 \text{ W}$

Q.20

(i) removed the need for license for power generation plants

(ii) Free trade competition through international competition

(iii) participation of private sector in transmission of power lines

(iv) Tariff based on cost of power

to give an incentive to power plants

(v) Encouraged local industries in power sector

(vi) Selling state power to the private sector



JAIHIND COMPREHENSIVE EDUCATIONAL INSTITUTE'S

JAIHIND COLLEGE OF ENGINEERING, KURAN

Affiliated to Savitribai Phule Pune University

DTE :- EN6609 SPPU:- CEGP015730



Hon'ble Late Shri. Tatyasahib Ganjal
Founder-Principal

External Assessment

Appointment of CEO, External Sr Supervisor
for SPPU Exam



Gat No. 441 Kuran Tal. Junnar Dist. Pune 410511 - Maharashtra
An ISO 9001:2015 QMS ISO 14001:2004 EMS Certified Institute
(Approved by AICTE, New Delhi, Recognised by DTE Mumbai)

☎ +91 9960662727 / +91 9766000214
🌐 www.jaihind.edu.in
✉ jcoekuran@gmail.com





External Assessment

Appointment of CEO, External Sr Supervisor
for SPPU Exam



[Back to Index](#)





Jaihind College Of Engineering

Gat No. 441, Kuran, Tal. Junnar, Dist. Pune - 410 511.

Website : www.jaihind.edu.in Email : jcoekuran@gmail.com

AN ISO 14001:2004 EMS CERTIFIED INSTITUTE

(Approved by AICTE, Recognised by DTE and Affiliated to Savitribai Phule Pune University)

Hon'ble Tatyasaheb Gubjal, Founder, President

DTE Code : EN6609

Ref. No. JCEI/ICOF/EXAM/2023-24 /

Date: - 06/5/2024

External Exam duty Allocation, F/JCOE/Exam/EEOA/07

To,

Prof.S.R.Shegar

SCOE,Belhe

Dist:- Pune

Subject: - Appointment of Senior Supervisor for Savitribai Phule Pune University Theory Examinations April/May 2024.

Dear Madam,

With reference to above, I am pleased to inform to you that, as per instructions given by Savitribai Phule Pune University, you are appointed as Senior Supervisor for the University Examinations at our Institute's Exam Centre.

Centre and Place of Examination:

Jaihind Comprehensive Educational Institute's Jaihind College Of Engineering,Kuran

| Exam Name | Duration of The Appointment | |
|--|-----------------------------|------------|
| | From | To |
| All Exams conducted during this duration | 08/05/2024 | 22/05/2024 |

I will be thankful for your full support and co-operation in this task.

Thanking you.



Yours Faithfully,

Dr. D. J. Garkal
PRINCIPAL

JCEI's Jaihind College of Engineering
Kuran, Tal. Junnar, Dist. Pune - 410511

Received
SP/1
29/5/2024

Samarth Rural Educational Institute Rajuri

DTE CODE - EN6635



Samarth Group of Institutions College of Engineering



Accredited by NAAC

Approved by AICTE New Delhi, Recognized by DTE, Govt. of Maharashtra and
Affiliated to Savitribai Phule Pune University

AISHE Code : C-40184

Pun Code - CEGP015740

On Kalyan-Nagar Highway, A/P : Belhe, (Bangarwadi), Tal. Junnar, Dist. Pune. Pin : 412 410. Ph.No. : 02132-275752, Fax : 276751.
Mob. : 9766588077, 9028142860 Email : sibrbelhe@rediffmail.com, principal@engg.sreir.org. Web. : www.engg.sreir.org

Ref. No. SGOICOE/2023-24/753

Date : 06/05/2024

To

Principal

JCOE, Kuran

Respected Sir

Myself Dr. Upasani D. E working as principal of Samarth College of engineering, Belhe
Our faculty member Dr. Nehe Sandip Sampat appointed as external senior supervisor at your
institute for April / May- 2024 examination from 08 may 2024 to 22 may 2024 by appointment
letter no. 24100013.

I am hereby informed that same faculty will not be available due to some academic busy
schedule. So we have made an alternate arrangement as Prof. Mrs. Shegar Sneha Ramdas. So
please consider and appoint them as external senior supervisor.

Thanking You

Yours Faithfully,

Principal

Dr. Upasani D. E.

SGOICOE, Belhe

Principal / Director

Samarth Group of Institutions
College of Engineering, Belhe





Date: 02 May 2024

Sandip Sampat Nehe (9096520647)

 Samarth Rural Educational Institute SAMARTH
 COLLEGE GROUP OF INSTITUTIONS COLLEGE OF
 ENGINEERING, Addr: Belhe Ta: Junnar Dist: Pune

 Subject: Appointment of External Senior Supervisor (Observer) for University Examination/s to be held in First
 half of the year, 2024

Sir/ Madam,

Referring to the above mentioned subject, I am directed to inform you that the University has appointed you as External Senior Supervisor, which is also referred as Observer for University Examination under the provision of Maharashtra Public Universities Act 2016, section (48) (1) (d) and ordinance 8 (4). The details of your place of work is as follows:

Centre and Place of Examination
 JAIHIND COMPREHENSIVE EDUCATIONAL INSTITUTE Jai Hind College OF Engineering Addr: GAT NO 441
 KURAN Ta: Junnar Dist: Pune, Pincode: 410511
Name of Examination**Duration of the Appointment**

| | From | To |
|--|-------------|-------------|
| All Exams conducted during this duration | 08 May 2024 | 22 May 2024 |

It is brought to your notice that it is legally bounded duty for you to attend this work. The Maharashtra Public Universities Act 2016, section (48) (4) reads as follows:

"It shall be obligatory on every teacher and on the non-teaching employees of the Universities, affiliated, conducted colleges, community colleges or recognized institution to render necessary assistance and service in respect of examination of the university and evaluation of students as prescribed by statutes. If any teacher or non-teaching employee fails to comply with the order of the university or colleges or institution, in this respect, it shall be treated as misconduct and the employee shall be liable for disciplinary action. In case of failure on the part of the teacher or non-teaching employee of any affiliated college, conducted college, community college or recognized institution, to comply with the order of the university in this respect, the Vice-Chancellor shall have power to take an appropriate action against them, which may include imposing penalties including suspension of approval to the appointment of a teacher, as may be prescribed by Statutes."

Hence it is brought to your notice that this duty is compulsory and failing to report will attract the action under Maharashtra Public Universities Act 2016, section (48) (4) coupled with Statute - 431: "Grounds for taking any disciplinary action against a teacher" and Statute - 431 (ii) "Willful and persistent neglect of duty"

In addition to your duties as External Senior Supervisor you are also the Observer and representative of Director, B.E.E., Savitribai Phule Pune University, and you will be responsible for Director, B.E.E. You should take guidance only from Director, B.E.E. It is your bounded duty as representative of Director B.E.E. to ensure copy free and orderly conduct of examinations. If there are any irregularities committed by college, it is your duty to bring them to the notice of Director, B.E.E. In some examination centres Police Bandobast is also provided. This will be at your disposal and you should take round with police constable to ensure there is no copying at the centre. Further at some centres videographers are provided. They will also be at your disposal. Videographer should do videography in examination hall as well as outside under your supervision and ensure copy free examination or no any other examination unfair means.

Needless to say that the entire work organization of University examinations is a team work and requires full support and co-operation for every corner, to make it success. I am confident that you will continue to extend your full support and co-operation in this task and oblige.

Thanking You,

Copy f.w.c.s. for information and necessary action to:

 Yours Faithfully,
 Director, Board Of Examinations and Evaluation

 1. The Principal / HOD / Director,
 Samarth Rural Educational Institute SAMARTH COLLEGE GROUP OF INSTITUTIONS COLLEGE OF
 ENGINEERING, Addr: Belhe Ta: Junnar Dist: Pune



Jaihind College Of Engineering

Gat No. 441, Kuran, Tal. Junnar, Dist. Pune - 410 511.

Website : www.jaihind.edu.in Email : jceekuran@gmail.com

AM ISO 14001:2004 EMS CERTIFIED INSTITUTE

(Approved by AICTE, Recognised by DTE and Affiliated to Savitribai Phule Pune University)

Ref. No. JCEI/JCOR/EXAM/2023-24 /

Date: - 30/5/2024

To,

Dr. R.M.Mulajkar

Jaihind College of Engg. Kuran

Dist:- Pune

Subject: - Appointment of Internal Senior Supervisor for Savitribai Phule Pune University Theory Examinations April/May 2024.

Dear Sir,

With reference to above, I am pleased to inform to you that, as per instructions given by Savitribai Phule Pune University, you are appointed as Internal Senior Supervisor for the University Examinations at our Institute's Exam Centre.

Centre and Place of Examination:

Jaihind Comprehensive Educational Institute's Jaihind College Of Engineering

| Exam Name | Duration of The Appointment | |
|--|-----------------------------|------------|
| | From | To |
| All Exams conducted during this duration | 8/05/2024 | 21/05/2024 |

I will be thankful for your full support and co-operation in this task.

Thanking you.

Yours Faithfully,


Dr. D. J. Garkal
PRINCIPAL

JCEI's Jaihind College of Engineering
Kuran, Tal. Junnar, Dist. Pune-410511



Received




Jaihind College Of Engineering

Gat No. 441, Kuran, Tal. Junnar, Dist. Pune - 410 511.

Website : www.jaihind.edu.in Email : jcoekuran@gmail.com

AN ISO 14001:2004 EMS CERTIFIED INSTITUTION

(Approved by AICTE, Recognized by DTE and Affiliated to Savitribai Phule Pune University)

Membe. Tatyasaheb Chitambar

Date: - 30/4/2024

Ref. No. JCEI/ICOE/EXAM/2023-24 /

To,

Prof. Mehre S.M

Jaihind College of Engg. Kuran

Dist.- Pune

Subject: - Appointment of Assistant to Internal Senior Supervisor for Savitribai Phule Pune University Theory Examinations April-May 2024

Dear Sir,

With reference to above, I am pleased to inform to you that, as per instructions given by Savitribai Phule Pune University, you are appointed as Assistant to Internal Senior Supervisor for the University Examinations at our Institute's Exam Centre.

Centre and Place of Examination:

Jaihind Comprehensive Educational Institute's Jaihind College Of Engineering, Kuran

| Exam Name | Duration of The Appointment | |
|--|-----------------------------|-----------|
| | From | To |
| All Exams conducted during this duration | 8/5/2024 | 21/5/2024 |

I will be thankful for your full support and co-operation in this task.

Thanking you.

Yours Faithfully,


Dr. D.J. Garikal
PRINCIPAL

JCEI's Jaihind College of Engineering
Kuran, Tal. Junnar, Dist. Pune-410511

Received
31/5/2024





Jaihind College Of Engineering

Gat No. 441, Kuran, Tal. Junnar, Dist. Pune - 410 511.

Website : www.jaihind.edu.in Email.: jceekuran@gmail.com

AN ISO 14001:2004 EMS CERTIFIED INSTITUTE

(Approved by AICTE, Recognised by DTE and Aff listed to Savitribai Phule Pune University)

Honble. Tatyasaheb Gunkal, Founder President

DTE Code - BVE608

Ref. No. JCEI/JCOE/EXAM/2023-24/

Date: - 30/4/2024

To,

Prof. Bhosale S.B.

College Examination Officer,

Jaihind College of Engg. Kuran,

Dist - Pune

Subject: - Appointment of Custodian for Savitribai Phule Pune University Theory Examinations April/May2024.

Dear Sir,

With reference to above, I am pleased to inform to you that, as per instructions given by Savitribai Phule Pune University, you are appointed as Custodian for the University Examinations at our Institute's Exam Centre.

Centre and Place of Examination:

Jaihind Comprehensive Educational Institute's

| Exam Name | Duration of The Appointment | |
|--|-----------------------------|-----------|
| | From | To |
| All Exams conducted during this duration | 8/5/2024 | 21/5/2024 |

I will be thankful for your full support and co-operation in this task.

Thanking you.



Yours Faithfully,

Dr. D. J. Garkal
PRINCIPAL

JCEI's Jaihind College of Engineering
Kuran, Tal. Junnar, Dist. Pune-410511



Jaihind College Of Engineering

Gat No. 441, Kuran, Tal. Junnar, Dist. Pune - 410 511.

Website : www.jaihind.edu.in Email : jcoekuran@gmail.com

AN ISO 14001:2004 EMS CERTIFIED INSTITUTE

(Approved by AICTE, Recognised by DTE and Affiliated to Savitribai Phule Pune University)

Honble. Tatyasaheb Gunjal, Founder President

DTE Code - ENG609

Ref. No. JCEI/JCOE/EXAM/2023-24 /

Date: - 30/4/2024

To,

Mr. K.B.Mate

Jaihind College of Engg. Kuran

Dist:- Pune

Subject: -Appointment of Assistant to College Examination Officer for Savitribai Phule Pune University Theory Examinations April/May 2024

Dear Sir,

With reference to above, I am pleased to inform to you that, as per instructions given by Savitribai Phule Pune University, you are appointed as Assistant to College Examination Officer for the University Examinations at our Institute's Exam Centre.

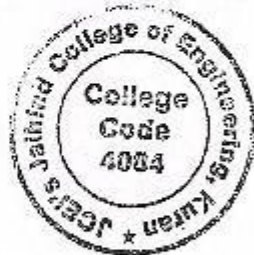
Centre and Place of Examination:

Jaihind Comprehensive Educational Institute's

| Exam Name | Duration of The Appointment | |
|--|-----------------------------|-----------|
| | From | To |
| All Exams conducted during this duration | 8/5/2024 | 21/5/2024 |

I will be thankful for your full support and co-operation in this task.

Thanking you.



Yours Faithfully,

Dr. D.J. Garkal
PRINCIPAL

JCEI's Jaihind College of Engineering
Kuran, Tal. Junnar, Dist. Pune-410511

Jaihind College Of Engineering

Gat No. 441, Kuran, Tal. Junnar, Dist. Pune - 410 511.

Website : www.jaihind.edu.in Email: jceekuran@gmail.com

AN ISO 14001:2004 EMS CERTIFIED INSTITUTE

(Approved by AICTE, Recognised by DTE and Affiliated to Savitribai Phule Pune University)



Hon'ble Tatyasaheb Garkal, Founder President

DTE Code - EN6809

Ref. No. JCEI/ JCOE/EXAM/2023-24 /

Date: - 22/5/2024

To,

Prof. Navale Ravindra Bajirao

SCOE, Belhe

Dist:- Pune

Subject: - Appointment of Senior Supervisor for Savitribai Phule Pune University Theory Examinations April/May 2024.

Dear Madam,

With reference to above, I am pleased to inform to you that, as per instructions given by Savitribai Phule Pune University, you are appointed as Senior Supervisor for the University Examinations at our Institute's Exam Centre.

Centre and Place of Examination:

Jaihind Comprehensive Educational Institute's Jaihind College Of Engineering, Kuran

| Exam Name | Duration of The Appointment | |
|--|-----------------------------|-----------|
| | From | To |
| All Exams conducted during this duration | 24/05/2024 | 3/06/2024 |

I will be thankful for your full support and co-operation in this task.

Thanking you.

Yours Faithfully,



Dr. D. J. Garkal
PRINCIPAL

JCEI's Jaihind College of Engineering
Kuran, Tal. Junnar, Dist. Pune-410511



Samarth Group of Institutions College of Engineering

Accredited by NAAC

Approved by AICTE New Delhi, Recognized by DTE, Govt. of Maharashtra and
Affiliated to Savitribai Phule Pune University



Fun Code - CEGP015740

AISHE Code : C-48'84

On Kalyan-Nagar Highway, A/P : Belhe, (Bangarwadi), Tal. Junnar, Dist. Pune, Pin : 412 410. Ph.No. : 02132-276752, Fax : 276751,
Mob. : 9736588077, 9028142860 Email : sib@belhe@rediffmail.com, principal@engg.sreit.org. Web. : www.cengg.sreit.org

Ref. No. SGOICOE/2023-24/770

Date : 22/05/2024

To
Principal
JCOE, Kuran
Respected Sir

Myself Dr. Upasani D. E working as principal of Samarth College of engineering, Belhe
Our faculty member Prof. Mr. Rahul Ramkisan Rathod appointed as external senior supervisor at
your institute for May / June- 2024 examination from 24 May 2024 to 03 June 2024.

I am hereby informed that same faculty will not be available to this exam duty due to
discontinuation from job. So we have made an alternate arrangement as Prof. Navale Ravindra
Bajirao. So please consider and appoint them as external senior supervisor.

Thanking You

Yours Faithfully,

new
Principal

Dr. Upasani D. E.
SGOICOE, Belhe

Principal / Director
Samarth Group of Institutions
College of Engineering, Belhe



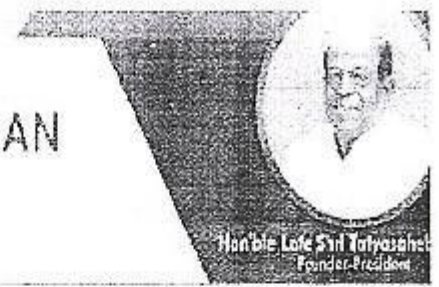


JAIHIND COMPREHENSIVE EDUCATIONAL INSTITUTE'S

JAIHIND COLLEGE OF ENGINEERING, KURAN

Affiliated to Savitribai Phule Pune University

DTE - EN-6609 SPPU- CEGP01,5730



Hon'ble Late Sri Yashwantrao Chavan
Founder-President

Ref. No. JCEI/JCOE/EXAM/2023-24 /

Date: - 21/05/2024

To,
Prof. Mandalik Y.L
Jaihind College of Engg. Kuran
Dist:- Pune

Subject: - Appointment of Internal Senior Supervisor for Savitribai Phule Pune University Theory Examinations April/May 2024.

Dear Sir,

With reference to above, I am pleased to inform to you that, as per instruction given by Savitribai Phule Pune University, you are appointed as Internal Senior Supervisor for the University Examinations at our Institute's Exam Centre.

Centre and Place of Examination:

Jaihind Comprehensive Educational Institute's Jaihind College Of Engineering

| Exam Name | Duration of The Appointment | |
|--|-----------------------------|------------|
| | From | To |
| All Exams conducted during this duration | 22/05/2024 | 03/06/2024 |

I will be thankful for your full support and co-operation in this task.

Thanking you.

Yours Faithfully,

(Signature)
21/05
Dr. D. I. Garkal
PRINCIPAL

JCEI's Jaihind College of Engineering
Kuran, Tal. Junnar, Dist. Pune-410511

Received by
Mandalik Y.L
21/5/24





JAIHIND COMPREHENSIVE EDUCATIONAL INSTITUTE'S

JAIHIND COLLEGE OF ENGINEERING, KURAN

Affiliated to Savitribai Phule Pune University

DTE :- EN6609 / SPDA :- CEGP015730



Ref. No. JCEI/JCOE/EXAM/2023-24/

Date: - 21/05/2024

To,
Prof. Kute Amit
Jaihind College of Engg. Kuran
Dist.- Pune

Subject: - Appointment of Assistant to Internal Senior Supervisor for Savitribai Phule Pune University Theory Examinations April-May 2024

Dear Sir,

With reference to above, I am pleased to inform to you that, as per instruction given by Savitribai Phule Pune University, you are appointed as Assistant to Internal Senior Supervisor for the University Examinations at our Institute's Exam Centre.

Centre and Place of Examination:

Jaihind Comprehensive Educational Institute's Jaihind College Of Engineering, Kuran

| Exam Name | Duration of The Appointment | |
|--|-----------------------------|-----------|
| | From | To |
| All Exams conducted during this duration | 22/5/2024 | 03/6/2024 |

I will be thankful for your full support and co-operation in this task.

Thanking you.

*Received
21/05/24*



Yours Faithfully,

[Signature]
Dr. D.J. Garkal
PRINCIPAL

JCEI's Jaihind College of Engineering
Kuran, Tal. Junnar, Dist. Pune-410511





Ref. No. JCEI/JCOE/EXAM/2023-24 /

Date: - 21/05/2024

To,
Prof. Bhosale S.B.
College Examination Officer,
Jaihind College of Engg. Kuran,
Dist - Pune

Subject: - Appointment of Custodian for Savitribai Phule Pune University Theory Examinations April/May2024.

Dear Sir,

With reference to above, I am pleased to inform to you that, as per instructions given Savitribai Phule Pune University, you are appointed as Custodian for the University Examinations at our Institute's Exam Centre.

Centre and Place of Examination:

Jaihind Comprehensive Educational Institute's

| Exam Name | Duration of The Appointment | |
|--|-----------------------------|------------|
| | From | To |
| All Exams conducted during this duration | 22/5/2024 | 03/06/2024 |

I will be thankful for your full support and co-operation in this task.

Thanking you.



Yours Faithfully,

[Signature]
21/05
Dr. D. Garkal
PRINCIPAL

JCEI's Jaihind College of Engineering
Kuran, Tal. Junner, Dist. Pune-410211





JAIHIND COMPREHENSIVE EDUCATIONAL INSTITUTE'S

JAIHIND COLLEGE OF ENGINEERING, KURAN

Affiliated to Savitribai Phule Pune University

DTE - EN6609 SP7U- CEGPD15730



Hon'ble Late Sir Talayshet
Founder President

Ref. No. ICEI/JCOE/EXAM/2023-24 /

Date: - 21/05/2024

To,

Mr. K.B.Mate

Jaihind College of Engg. Kuran

Dist:- Pune

Subject: -Appointment of Assistant to College Examination Officer for Savitribai Phule Pune University Theory Examinations April/May 2024

Dear Sir,

With reference to above, I am pleased to inform to you that, as per instructions given Savitribai Phule Pune University, you are appointed as Assistant to College Examination Officer for the University Examinations at our Institute's Exam Centre.

Centre and Place of Examination:

Jaihind Comprehensive Educational Institute's

| Exam Name | Duration of The Appointment | |
|--|-----------------------------|------------|
| | From | To |
| All Exams conducted during this duration | 22/5/2024 | 03/06/2024 |

I will be thankful for your full support and co-operation in this task.

Thanking you.



Yours Faithfully,

21/05
Dr. D.J. Garkal
PRINCIPAL

JCEI's Jaihind College of Engineering
Kuran, Tal-Junner, Dist. Pune-410511



☎ +91 9960667727 / +91 976000214
🌐 www.jaihind.edu.in
✉ jcoekuran@gmail.com



Hon'ble Late Sir Jijamabai Phule
 Founder-Principal

Ref. No. JCEI/JCOE/EXAM/2023-24 /

Date: - 21/05/2024

To,
 Prof. Bhosale S.B.
 College Examination Officer,
 Jaihind College of Engg. Kuran,
 Dist - Pune

Subject: - Appointment of Custodian for Savitribai Phule Pune University Theory Examinations April/May2024.

Dear Sir,

With reference to above, I am pleased to inform to you that, as per instructions given Savitribai Phule Pune University, you are appointed as Custodian for the University Examinations at our Institute's Exam Centre.

Centre and Place of Examination:

Jaihind Comprehensive Educational Institute's

| Exam Name | Duration of The Appointment | |
|--|-----------------------------|------------|
| | From | To |
| All Exams conducted during this duration | 22/5/2024 | 03/06/2024 |

I will be thankful for your full support and co-operation in this task.

Thanking you,



Yours Faithfully,

[Signature]
 21/05
 DR. D. S. Garkal
PRINCIPAL

JCEI's Jaihind College of Engineering
 Kuran, Tal. Junner, Dist. Pune-410701



To,

- 1) Prof. Gore Sanket Raosaheb,
 - 2) Prof. Gorade Nishigandh Bhimashankar,
 - 3) Prof. Mrs. Dumbre Pallavi Santosh
- Jaihind College of Engg. Kuran Dist.- Pune

**Subject: - Appointment of Internal Squad for Savitribai Phule Pune University
Theory Examinations May - June 2024.**

Dear Sir,

With reference to above, I am pleased to inform to you that, as per instructions given by Savitribai Phule Pune University, you are appointed as Internal Squad member for the University Examinations at our Institute's Exam Centre.

| Exam Name | Duration of The Appointment | |
|--|-----------------------------|------------|
| | From | To |
| All Exams conducted during this duration | 14/05/2024 | 03/06/2024 |

I will be thankful for your full support and co-operation in this task.

We will give remuneration as per SPPU norms for more details contact Prof.S.B.Bhosale (CEO).

Thanking you.

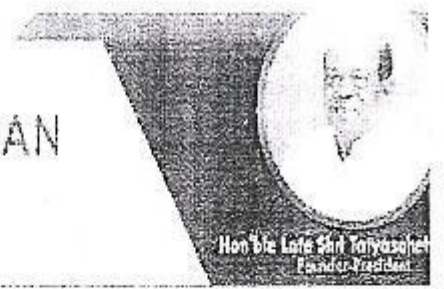
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Received
Received



Yours Faithfully,

[Signature]
14/05
Dr. D. J. Garkal
PRINCIPAL

JCEI's Jaihind College of Engineering
Kuran, Tal. Junnar, Dist. Pune-410511



Ref. No. JCEI/JCOE/EXAM/2023-24 /

Date: - 21/05/2024

To,
Mr. K.B.Mate
Jaihind College of Engg. Kuran
Dist:- Pune

Subject: -Appointment of Assistant to College Examination Officer for Savitribai Phule Pune University Theory Examinations April/May 2024

Dear Sir,

With reference to above, I am pleased to inform to you that, as per instructions given Savitribai Phule Pune University, you are appointed as Assistant to College Examination Officer for the University Examinations at our Institute's Exam Centre.

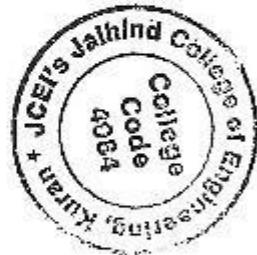
Centre and Place of Examination:

Jaihind Comprehensive Educational Institute's

| Exam Name | Duration of The Appointment | |
|--|-----------------------------|------------|
| | From | To |
| All Exams conducted during this duration | 22/5/2024 | 03/06/2024 |

I will be thankful for your full support and co-operation in this task.

Thanking you.



Yours Faithfully,

21/05
Dr. D.J. Garkal
PRINCIPAL

JCEI's Jaihind College of Engineering
Waran, Tal. Junnar, Dist. Pune-410511





JAIHIND COMPREHENSIVE EDUCATIONAL INSTITUTE'S

JAIHIND COLLEGE OF ENGINEERING, KURAN

Affiliated to Savitribai Phule Pune University

DTE :- EN6609 SPPU:- CEGP015730



Member Late Shri. Tatyasaheb Gunjal
Founder-President

External Assessment
SPPU Ordinance regarding Exam Conduction
and Assessment



Gat No. 441 Kuran Tal. Junnar Dist. Pune 410511 - Maharashtra
An ISO 9001:2015 QMS ISO 14001:2004 EMS Certified Institute
(Approved by AICTE, New Delhi, Recognised by DTE Mumbai)

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🌐 www.jaihind.edu.in
✉ jcoekuran@gmail.com





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SPPU Notice regarding Queries in Hall Ticket



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NOTICE

Date: 15-04-2024

All the HODs, FE and ME coordinators are hereby inform that please find the attachments which is name list and college summary for May 2024 examination that we have emailed to you on dated 15-04-2024. If any correction is found in that please let we know on or before 19.04.2024 05:00PM. After 19.04.2024 hall-ticket will not possible to correct under any circumstances. So its sole responsibility of the students and HOD to be correct it on or before due date.

If there is any correction in hallticket or college summary submit the handwritten application of student with due sign of HOD and also clearly mention the reason to change hallticket and submit it to the college examination department in above format.

Name:

PRN No:

Eligibility No.:

Class:

Mobile No.:

Query in detail:

College Examiner Officer
College Examination Officer
JCEI's Jaihind College Of Engineering
Kuran, Tal. Junnar, Dist. Pune - 410511



Principal
PRINCIPAL
JCEI's Jaihind College of Engineering
Kuran, Tal. Junnar, Dist. Pune-4105



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JAIHIND COLLEGE OF ENGINEERING, KURAN

Affiliated to Savitribai Phule Pune University

DTE :- EN6609 SPPIE:- CEGP015730



Hon'ble Late Shri. Yashwantrao Chavan
Formerly - President

Ref. No. JCEI/JCOE/EXAM/2023-24 /

Date: -

To,
The Director,
Board of Exam and Revaluations,
Savitribai Phule Pune University,
Pune-47

सावित्रीबाई फुले पुणे विद्यापीठ
संचालक कार्यालय
परीक्षा व मूल्यांकन मंडळ

पेहोच स्वाक्षरी.....
दिनांक... 01/04/2024

Subject: - FE-2019 Pattern Subject add in April/May 2024 Exam...

Name of Student: KHANDEKAR PRASHIK SUNIL

PRN No: - 72330995H

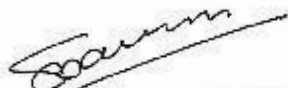
Dear Sir,

With reference to above subject, following student have submitted exam form .In exam form he selected wrong subject **ENGINEERING PHYSICS**[[IN],[TH],[PR]](107002). It is requesting to you please add his correct subject **ENGINEERING CHEMISTRY**[[IN],[TH],[PR]] (107009).


| Sr. No. | Name of Student | PRN No. | Exam | Remark |
|---------|-------------------------|-----------|---------------------|---|
| 1 | KHANDEKAR PRASHIK SUNIL | 72330995H | April/May-2024 Exam | Please add her subject ENGINEERING CHEMISTRY [[IN],[TH],[PR]] (107009) |

Kindly accept it and do the needful.

Thanking you,


College Examination Officer
JCEI's Jaihind College Of Engineering
Kuran, Tal. Junnar, Dist. Pune. - 410511




PRINCIPAL
Principal
JCEI's Jaihind College of Engineering
Kuran, Tal. Junnar, Dist. Pune-410511



old Hall ticket

Savitribai Phule Pune University



(Formerly University of Pune)

Hall Ticket For F.E.(2019 PAT.) MAR/APR 2024

| SeatNo | PRN | CentreCode | CollegeCode | PUN Code |
|------------|-----------|------------|-------------|------------|
| F190840238 | 72330995H | 84 | 84 | CEGP015730 |

Name : KHANDEKAR PRASHIK SUNIL

Mother : ANITA

College: JAIHIND COLLEGE OF ENGINEERING, KURAN, JUNNAR



| Sub Code | Subject Name | Type | Exam Date | Exam Time |
|----------|--|------------------------|-----------|-----------|
| 101011 | ENGINEERING MECHANICS | [IN], [TH], [PR] | | |
| 101014 | ENVIRONMENTAL STUDIES-II | [AC] | | |
| 102012 | ENGINEERING GRAPHICS | [TH], [TW] | | |
| 103004 | BASIC ELECTRICAL ENGINEERING | [TH] | | |
| 104010 | BASIC ELECTRONICS ENGINEERING | [IN], [TH], [PR] | | |
| 107001 | ENGINEERING MATHEMATICS-I | [TH] | | |
| 107008 | ENGINEERING MATHEMATICS-I | [IN], [TH], [TW] | | |
| 107002 | ENGINEERING PHYSICS | [IN], [TH], [PR] | | |
| 107015 | PHYSICAL EDUCATION-EXERCISE AND FIELD ACTIVITIES | [AC] | | |
| 110005 | PROGRAMMING AND PROBLEM SOLVING | [TH] | | |
| 110013 | PROJECT BASED LEARNING | [PR], [TW] | | |
| 22295 | DEMOCRACY, ELECTION AND GOVERNANCE | [AC] | | |

NOTE:

Students should ensure that details like Name, Photo, PRN, Subjects printed on Hall Ticket are correct. In case of any discrepancy, please immediately contact to College Exam Officer (CEO).

In Case, College does not have Exam Center, please follow University Circular.

In Case of any discrepancy between hall ticket & time table published on university website (<http://exam.unipune.ac.in>), the timetable on website to be followed.

Signature of Student

College Principal / Director
Principal

JAIHIND COLLEGE OF ENGINEERING, KURAN, JUNNAR
Kuran, Tal. Junnar, Dist. Pune-410511



Savitribai Phule Pune University

Examination Form Mar/Apr 2024



Form No : 1573-01715

Course Name F.E.(2019 PAT.)

PRN. 72330995H Eligibility No. 12023154527 Total Fee to be Paid: 1565

PUNCODE CEGP015730 College (84) Jai Hind College OF Engineering

Instructions to the Candidate:

- 1.This Exam form along with fee amount should be submitted to the concerned college .
- 2.Repeater students should attach attested true copy of the latest mark sheet alongwith this form.
- 3.This form will be considered **ONLY AFTER APPROVAL** from the concern College Login.

To,
 Director,
 Board of Examination & Evaluation, Savitribai Phule Pune University, Pune-411 007.
 Sir/Madam,
 I request permission to present myself at the examination courses, mentioned below .

1. Personal Details:

Name of the Applicant KHANDEKAR PRASHIK SUNIL
 Name of the Applicant's Mother ANITA
 Address for Communication Balaji classics ambethan chowk
 Email-ID *khandekarprashik4@gmail.com* Contact Number 9607628523
 Gender Male Category SC
 Divyang/Learning Disable No Medium of Instruction English
 ABCId 263985192389

2. Applied Subjects Information :

| Sem | Sub Code | Subject Name | TW | INSEM | ONLIN E | TH | PR | OR | GRD | TUT |
|-----|----------|--|----|-------|------------|----|----|----|-----|-----|
| 1 | 103004-1 | 103004 BASIC ELECTRICAL ENGINEERING | - | - | - | Y | - | - | - | N |
| 1 | 107001 | 107001 ENGINEERING MATHEMATICS-I | - | - | - | Y | - | - | - | N |
| 1 | 110005-1 | 110005 PROGRAMMING AND PROBLEM SOLVING | - | - | - | Y | - | - | - | N |
| 2 | 101011 | ENGINEERING MECHANICS | - | Y | - | Y | Y | - | - | N |
| 2 | 101014 | ENVIRONMENTAL STUDIES-II | - | - | - | - | - | - | Y | N |
| 2 | 102012 | ENGINEERING GRAPHICS | Y | - | - | Y | - | - | - | N |
| 2 | 104010 | BASIC ELECTRONICS ENGINEERING | - | Y | - | Y | Y | - | - | N |
| 2 | 107002 | ENGINEERING PHYSICS | - | Y | - | Y | Y | - | - | N |
| 2 | 107008 | ENGINEERING MATHEMATICS II | Y | Y | - | Y | - | - | - | N |
| 2 | 107015 | PHY.EDU.-EXER.& FIELD ACTI. | - | - | - | - | - | - | Y | N |
| 2 | 110013 | PROJECT BASED LEARNING | Y | - | - | - | Y | - | - | N |
| 2 | 22295 | DEMORACY, FLECTION AND GOVERNANCE | - | - | - | - | - | - | Y | N |

Date:-05/04/2024

To,
The Principal,
Jaihind College of Engineering, Kuran
pune,

Subject:- Request regarding hall ticket correction...

Respected Sir,

With respect to above mention subject that

I am Khardekar Prashik Sunil. I am student of First year

Engineering of your college. I am writing this letter to inform
I am selecting wrong subject in Exam form (Engineering
Physics). It is requesting to you please add my correct
subject Engineering Chemistry.

I request you to kindly correct my subject
in exam hall ticket.

Thanking you

CEO, Bhasale Sir
do the needful.
RS-

Prashik
Yours Faithfully
Khardekar Prashik Sunil

FE-2019 Pattern Subject add in April/May 2024 Exam...
 From: Jai Hind College Of Engineering Tumar
 To: Examsupportengg @ S & T Engineering
 Date: 05-04-2024 3:22 pm

Dear Sir,
 With reference to above subject, following student have submitted exam form. In exam form he selected wrong subject
ENGINEERING PHYSICS(I)(TH),(PRII) (107002). It is requesting to you please add his correct subject **ENGINEERING CHEMISTRY(TH),(TH),(PRII) (107009)**.

| Sl. No. | Name of Student | PRN No. | Exam | Remark |
|---------|--------------------------|-----------|---------------------|--|
| 1 | M-ANDEKAR PRASHIK SURESH | 7233J095H | April/May-2024 Exam | Please add her subject ENGINEERING CHEMISTRY(I)(TH),(TH),(PRII) (107009) |

Kindly accept it and do the needful.
 Thanking you,

Hall Ticket Correction For regular students

Back to Main Menu

Please Enter RSN : 123456789

Search

- Hall Ticket
- All Hall Ticket
- Individual Hall Ticket
- Hall Ticket Correction
- Hall Ticket Correction Dates
- Add Teacher Subject Details
- Junior Supervisor Report
- Add Student Absentee Copy
- Print Report
- Student Count Report
- College Ledger
- Eng hearing College Ledger
- All College Ledger
- Diploma Student Marks
- Attendance 103
- Add Student Activity

Problem solve

New Hall Ticket

Savitribai Phule Pune University



(Formerly University of Pune)

Hall Ticket For F.E.(2019 PAT.) MAR/APR 2024

| SeatNo | PRN | CentreCode | CollegeCode | PUN Code |
|------------|-----------|------------|-------------|------------|
| F190840238 | 72330995H | 84 | 84 | CEGP015730 |

Name : KHANDEKAR PRASHIK SUNIL

Mother : ANITA

College: JAIHIND COLLEGE OF ENGINEERING, KURAN, JUNNAR



| Sub Code | Subject Name | Type | Exam Date | Exam Time |
|----------|--|------------------------|-----------|-----------|
| 101011 | ENGINEERING MECHANICS | [IN], [TH], [PR] | | |
| 101314 | ENVIRONMENTAL STUDIES-II | [AC] | | |
| 102012 | ENGINEERING GRAPHICS | [TH], [TW] | | |
| 103004 | BASIC ELECTRICAL ENGINEERING | [TH] | | |
| 104010 | BASIC ELECTRONICS ENGINEERING | [IN], [TH], [PR] | | |
| 107001 | ENGINEERING MATHEMATICS-I | [TH] | | |
| 107008 | ENGINEERING MATHEMATICS-II | [IN], [TH], [TW] | | |
| 107009 | ENGINEERING CHEMISTRY | [IN], [TH], [PR] | | |
| 107015 | PHYSICAL EDUCATION-EXERCISE AND FIELD ACTIVITIES | [AC] | | |
| 110005 | PROGRAMMING AND PROBLEM SOLVING | [TH] | | |
| 110013 | PROJECT BASED LEARNING | [PR], [TW] | | |
| 22295 | DEMOCRACY, ELECTION AND GOVERNANCE | [AC] | | |

NOTE:

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Signature of Student

College Principal / Director

JAIHIND COLLEGE OF ENGINEERING, KURAN, JUNNAR
Kuran, Tal. Kurur, Dist. Pune-410511



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Hon'ble Late Shri. Tatyasaheb Gungat
Founder-President

External Assessment

Grievances

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 Affiliated to Savitribai Phule Pune University
 DTE - EN6609 SPPII- CEGP015730



Hon'ble Late Shri Yashwantrao Chavan
 Former-Pradhan

Ref. No. JCEI/JCOE/EXAM/2023-24/13

Date: - 07/5/2024

To,
 The Director,
 Board of Examination and Revaluation,
 Savitribai Phule Pune University,
 Pune

Subject: - Regarding Problem for S.E.AI&DS (2019 PAT.) Audit Course(Oct/Nov 2023 Exam)

Dear Sir,

With reference to above subject, following student have submitted exam form .In hall ticket correction we correct his audit course subject ENVIRONMENTAL STUDIES (217527C) but in Oct/Nov 2023 exam result shows both audit course. It is requested to remove his AC subject SMART CITIES (217527D).

| Sr. No. | Name of Student | PRN No. | Exam | Remark |
|---------|---------------------|-----------|--------------|---|
| 1 | PADWAL TUSHAR DILIP | 72256942E | Oct/Nov 2023 | Please remove his AC subject SMART CITIES (217527D) |

Kindly accept it and do the needful.

Thanking you,

Thanking you,

[Signature]

College Examination Officer
 (Prof. Bhosale S B) *[Signature]*
 Kuran Tal-Junna, Dist-Pune - 410511



[Signature]

Principal
 (Dr. D. J. Garkal) *[Signature]*
 Kuran Tal-Junna, Dist-Pune - 410511

सावित्रीबाई फुले पुणे विद्यापीठ
 संचालक कार्यालय
 परीक्षा व मूल्यांकन मंडळ
 191 9960662727 / +91 9766000214
 www.jaihind.edu.in
 jceikuran@gmail.com
 दिनांक 09/05/2024

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Savitribai Phule Pune University



(Formerly University of Pune)

Hall Ticket For S.E.(2019 PAT.)(ARTIFICIAL INTELLIGENCE & DATA SCIENCE) OCT/NOV 2023

| SeatNo | PRN | CentreCode | CollegeCode | PUN Code |
|------------|-----------|------------|-------------|------------|
| S190842067 | 72256942E | 84 | 84 | CEGP015730 |

Name : PADWAL TUSHAR DILIP

Mother : VAISHALI

College: JAIHIND COLLEGE OF ENGINEERING, KURAN, JUNNAR



| Sub Code | Subject Name | Type | Exam Date | Exam Time |
|----------|--------------------------------------|-----------|-----------|-----------|
| 210241 | Discrete Mathematics | [IN],[TH] | | |
| 210242 | Fundamentals of Data Structures | [IN],[TH] | | |
| 210243 | Object Oriented Programming (OOP) | [IN],[TH] | | |
| 210244 | Computer Graphics | [IN],[TH] | | |
| 217521 | Operating Systems | [IN],[TH] | | |
| 217522 | Data Structures Laboratory | [PR],[TW] | | |
| 217523 | OOP and Computer Graphics Laboratory | [PR],[TW] | | |
| 217524 | Operating Systems Laboratory | [TW] | | |
| 217525 | Business Communication Skills | [TW] | | |
| 217526 | Humanity and Social Science | [TW] | | |
| 217527D | Smart Cities | [AC] | | |

NOTE:

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In Case of any discrepancy between hall ticket & time table published on university website (<http://exam.unipune.ac.in>), the timetable on website to be followed.

Signature of Student

College Principal / Director

JCEP's Jaihind College Of Engineering
Kuran, Tal. Junnar, Dist. Pune-410811

JAIHIND COLLEGE OF ENGINEERING, KURAN, JUNNAR

SEAT NO.: 5190842007 NAME: PARVATI TUSHAR DILIP COURSE NAME: MATHEMATICS
 PRN: 722559125 CDG.: JC0E1941

| SEM. | COURSE NAME | ISE | ESE | TOTAL | IN | PR | OR | TUT | Tot\$ | Crd | Grd | GP | CP | P&R | CRD |
|--------|-------------------------------|---------|---------|---------|---------|---------|-----|-----|-------|-----|-----|----|----|-----|-----|
| 210241 | DISCRETE MATHEMATICS | 012/030 | 050/070 | 042/100 | --- | --- | --- | --- | 42 | 03 | E | 04 | 12 | --- | --- |
| 210242 | FUNDAMENTALS OF DATA STRU. | 015/030 | 024/070 | 010/100 | --- | --- | --- | --- | 00 | 00 | F | 00 | 00 | --- | --- |
| 210243 | OBJECT ORIENTED PROG. (OOP) | 015/030 | 023/070 | 038/100 | --- | --- | --- | --- | 00 | 00 | F | 00 | 00 | --- | --- |
| 210244 | COMPUTER GRAPHICS | 015/030 | 028/070 | 043/100 | --- | --- | --- | --- | 43 | 03 | F | 04 | 12 | --- | --- |
| 217521 | OPERATING SYSTEMS | 012/030 | 033/070 | 045/100 | --- | --- | --- | --- | 45 | 03 | C | 05 | 15 | --- | --- |
| 217522 | DATA STRUCTURES LABORATORY | --- | --- | --- | 03/025 | 031/050 | --- | --- | 50 | 02 | B1 | 07 | 14 | --- | --- |
| 217523 | COOP & COMP. GRAPHICS LAB. | --- | --- | --- | 017/025 | 017/025 | --- | --- | 60 | 02 | A | 03 | 16 | --- | --- |
| 217524 | OPERATING SYSTEMS LABORATORY | --- | --- | --- | 018/025 | --- | --- | --- | 72 | 01 | A+ | 09 | 09 | --- | --- |
| 217525 | BUSINESS COMMUNICATION SKILLS | --- | --- | --- | 018/025 | --- | --- | --- | 72 | 01 | A+ | 09 | 09 | --- | --- |
| 217526 | HUMANITY AND SOCIAL SCIENCE | --- | --- | --- | 017/025 | --- | --- | --- | 53 | 01 | A | 00 | 00 | --- | --- |

SECOND YEAR SCRA : --, TOTAL CREDITS EARNED : 16 (INCOMPLETE COURSE (IC))
 *****CONFIDENTIAL FOR VERIFICATION AND RECORD ONLY AT COLLEGE, NOT FOR DISTRIBUTION*****

SEAT NO.: 5190842008 NAME: PARVATI SWATI COURSE NAME: MATHEMATICS
 PRN: 722563476 CDG.: JC0K1941

| SEM. | COURSE NAME | ISE | ESE | TOTAL | IN | PR | OR | TUT | Tot\$ | Crd | Grd | GP | CP | P&R | CRD |
|--------|-------------------------------|---------|---------|---------|---------|---------|-----|-----|-------|-----|-----|----|----|-----|-----|
| 210241 | DISCRETE MATHEMATICS | 014/030 | 046/070 | 060/100 | --- | --- | --- | --- | 60 | 03 | A | 06 | 24 | --- | --- |
| 210242 | FUNDAMENTALS OF DATA STRU. | 014/030 | 029/070 | 043/100 | --- | --- | --- | --- | 43 | 03 | P | 04 | 12 | --- | --- |
| 210243 | OBJECT ORIENTED PROG. (OOP) | 027/030 | 050/070 | 087/100 | --- | --- | --- | --- | 87 | 03 | O | 10 | 30 | --- | --- |
| 210244 | COMPUTER GRAPHICS | 015/030 | 035/070 | 054/100 | --- | --- | --- | --- | 54 | 03 | B | 06 | 18 | --- | --- |
| 217521 | OPERATING SYSTEMS | 019/030 | 038/070 | 057/100 | --- | --- | --- | --- | 57 | 03 | B+ | 07 | 21 | --- | --- |
| 217522 | DATA STRUCTURES LABORATORY | --- | --- | --- | 015/025 | 020/050 | --- | --- | 57 | 02 | B+ | 07 | 14 | --- | --- |
| 217523 | COOP & COMP. GRAPHICS LAB. | --- | --- | --- | 017/025 | 020/025 | --- | --- | 74 | 02 | A1 | 09 | 18 | --- | --- |
| 217524 | OPERATING SYSTEMS LABORATORY | --- | --- | --- | 020/025 | --- | --- | --- | 60 | 01 | C | 10 | 10 | --- | --- |
| 217525 | BUSINESS COMMUNICATION SKILLS | --- | --- | --- | 017/025 | --- | --- | --- | 60 | 01 | A | 08 | 08 | --- | --- |
| 217526 | HUMANITY AND SOCIAL SCIENCE | --- | --- | --- | 017/025 | --- | --- | --- | 68 | 01 | A | 08 | 08 | --- | --- |

SEMESTER : 7.41, TOTAL CREDITS EARNED : 22
 *****CONFIDENTIAL FOR VERIFICATION AND RECORD ONLY AT COLLEGE, NOT FOR DISTRIBUTION*****

SEAT NO.: 5190842067 NAME : PADMAL TUSHAR DILIP MOTHER : VAISHALI

| SEM. | COURSE NAME | ISE | ESE | TOTAL | IN | PR | OR | TUT | TO.S | CD | Grd | GP | CE | P&R | CRD |
|---------|-------------------------------|-----------|---------|---------|---------|---------|-----|-----|------|----|-----|----|----|-----|-----|
| 210241 | DISCRETE MATHEMATICS | * 012/030 | 050/070 | 042/100 | --- | --- | --- | --- | 42 | 03 | P | 04 | 12 | --- | --- |
| 210242 | FUNDAMENTALS OF DATA STRU. | * 016/030 | 027/070 | 043/100 | --- | --- | --- | --- | 27 | 03 | F | 00 | 00 | --- | --- |
| 210243 | OBJECT ORIENTED PROG.(COP) | * 015/030 | 023/070 | 038/100 | --- | --- | --- | --- | 23 | 03 | F | 00 | 00 | --- | --- |
| 210244 | COMPUTER GRAPHICS | * 015/030 | 028/070 | 043/100 | --- | --- | --- | --- | 43 | 03 | F | 04 | 12 | --- | --- |
| 217521 | OPERATING SYSTEMS | * 012/030 | 033/070 | 045/100 | --- | --- | --- | --- | 45 | 03 | C | 05 | 15 | --- | --- |
| 217522 | DATA STRUCTURES LABORATORY | --- | --- | --- | 019/025 | 031/050 | --- | --- | 58 | 02 | A+ | 07 | 14 | --- | --- |
| 217523 | COP & COMP. GRAPHICS LAB. | --- | --- | --- | 017/025 | 017/025 | --- | --- | 34 | 02 | A | 03 | 16 | --- | --- |
| 217524 | OPERATING SYSTEMS LABORATORY | --- | --- | --- | 018/025 | --- | --- | --- | 72 | 01 | A+ | 09 | 09 | --- | --- |
| 217525 | BUSINESS COMMUNICATION SKILLS | --- | --- | --- | 018/025 | --- | --- | --- | 72 | 01 | A+ | 09 | 09 | --- | --- |
| 217526 | HUMANITY AND SOCIAL SCIENCE | --- | --- | --- | 017/025 | --- | --- | --- | 68 | 01 | A | 08 | 08 | --- | --- |
| 217527C | ENVIRONMENTAL STUDIES | --- | --- | --- | --- | --- | --- | --- | 40 | 00 | AC | 00 | 00 | --- | --- |

SGPA : ---, TOTAL CREDITS EARNED : 16

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SEAT NO.: 5190842068 NAME : PARDESHI AAYAN SACHINSHING MOTHER : SWATI

| SEM. | COURSE NAME | ISE | ESE | TOTAL | IN | PR | OR | TUT | TO.S | CD | Grd | GP | CE | P&R | CRD |
|---------|-------------------------------|-----------|---------|---------|---------|---------|-----|-----|------|----|-----|----|----|-----|-----|
| 210241 | DISCRETE MATHEMATICS | * 014/030 | 046/070 | 060/100 | --- | --- | --- | --- | 60 | 03 | A | 08 | 24 | --- | --- |
| 210242 | FUNDAMENTALS OF DATA STRU. | * 014/030 | 029/070 | 043/100 | --- | --- | --- | --- | 43 | 03 | P | 04 | 12 | --- | --- |
| 210243 | OBJECT ORIENTED PROG.(COP) | * 027/030 | 060/070 | 087/100 | --- | --- | --- | --- | 87 | 03 | O | 10 | 30 | --- | --- |
| 210244 | COMPUTER GRAPHICS | * 015/030 | 035/070 | 054/100 | --- | --- | --- | --- | 54 | 03 | F | 06 | 18 | --- | --- |
| 217521 | OPERATING SYSTEMS | * 018/030 | 033/070 | 057/100 | --- | --- | --- | --- | 57 | 03 | B+ | 07 | 21 | --- | --- |
| 217522 | DATA STRUCTURES LABORATORY | --- | --- | --- | 015/025 | 028/050 | --- | --- | 57 | 02 | B+ | 07 | 14 | --- | --- |
| 217523 | COP & COMP. GRAPHICS LAB. | --- | --- | --- | 017/025 | 020/025 | --- | --- | 74 | 02 | A+ | 09 | 18 | --- | --- |
| 217524 | OPERATING SYSTEMS LABORATORY | --- | --- | --- | 020/025 | --- | --- | --- | 00 | 01 | C | 10 | 10 | --- | --- |
| 217525 | BUSINESS COMMUNICATION SKILLS | --- | --- | --- | 017/025 | --- | --- | --- | 68 | 01 | A | 08 | 08 | --- | --- |
| 217526 | HUMANITY AND SOCIAL SCIENCE | --- | --- | --- | 017/025 | --- | --- | --- | 68 | 01 | A | 08 | 08 | --- | --- |
| 217527C | ENVIRONMENTAL STUDIES | --- | --- | --- | --- | --- | --- | --- | 40 | 00 | AC | 00 | 00 | --- | --- |

SGPA : 7.43, TOTAL CREDITS EARNED : 22

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SEAT NO.: S190642066 NAME: NIKAM SUREVA RAJENDRA
MOTHER: KAVICA

PRV: 72256122 C.G.: JCOE1841
TUT Tot% Grd Grp Cp Pw ORD

| SEM | COURSE NAME | ISE | ESE | TOTAL | TR | VR | OR | TUT | Tot% | Grd | Grp | Cp | Pw | ORD |
|---------|-------------------------------|---------|---------|---------|---------|---------|----|-----|------|-----|-----|----|----|-----|
| 210241 | DISCRETE MATHEMATICS | 015/030 | 030/070 | 045/100 | | | | | 45 | C | | 05 | 15 | |
| 210242 | FUNDAMENTALS OF DATA STRU. | 017/030 | 028/070 | 045/100 | | | | | 45 | C | | 05 | 15 | |
| 210243 | OBJECT ORIENTED PROG. (OOP) | 013/030 | 013/070 | 051/100 | | | | | 50 | B | | 06 | 18 | |
| 210244 | COMPUTER GRAPHICS | 013/030 | 029/070 | 042/100 | | | | | 42 | C | | 04 | 12 | |
| 217521 | OPERATING SYSTEMS | 013/030 | 031/070 | 044/100 | | | | | 44 | C | | 04 | 12 | |
| 217522 | DATA STRUCTURES LABORATORY | | | | 015/025 | 035/050 | | | 66 | A | | 08 | 16 | |
| 217523 | OOP & COMP. GRAPHICS LAB. | | | | 018/025 | 017/025 | | | 70 | A+ | | 09 | 16 | |
| 217524 | OPERATING SYSTEMS LABORATORY | | | | 019/025 | | | | 76 | A+ | | 09 | 09 | |
| 217525 | BUSINESS COMMUNICATION SKILLS | | | | 019/025 | | | | 76 | A+ | | 09 | 09 | |
| 217526 | HUMANITY AND SOCIAL SCIENCE | | | | 018/025 | | | | 72 | A+ | | 05 | 09 | |
| 217527C | ENVIRONMENTAL STUDIES | | | | | | | | AC | 00 | AC | 00 | 00 | |

SEM-22
217522 DATA STRU. & ALGORITHMS.
217523 SOFTWARE ENGINEERING
217520 STATISTICS
217529 INTERNET OF THINGS
217530 MANAGEMENT INFORMATION SYSTEM
217531 INTERNET OF THINGS LABORATORY
217532 DATA STRU. & ALGORITHMS LAB.
217533 PROJECT BASED LEARNING II
217534 CODE OF CONDUCT
217535D STRESS RELIEF: YOGA & MEDIT.

| SEM | COURSE NAME | ISE | ESE | TOTAL | TR | VR | OR | TUT | Tot% | Grd | Grp | Cp | Pw | ORD |
|---------|-------------------------------|---------|---------|---------|---------|---------|----|-----|------|-----|-----|----|----|-----|
| 217522 | DATA STRU. & ALGORITHMS. | 012/030 | 034/070 | 046/100 | | | | | 46 | C | | 05 | 15 | |
| 217523 | SOFTWARE ENGINEERING | 013/030 | 031/070 | 044/100 | | | | | 44 | C | | 04 | 12 | |
| 217520 | STATISTICS | 022/030 | 029/070 | 050/100 | | | | | 50 | B | | 06 | 18 | |
| 217529 | INTERNET OF THINGS | 013/030 | 035/070 | 048/100 | | | | | 48 | C | | 05 | 15 | |
| 217530 | MANAGEMENT INFORMATION SYSTEM | 016/030 | 030/070 | 046/100 | | | | | 46 | C | | 05 | 15 | |
| 217531 | INTERNET OF THINGS LABORATORY | | | | 037/050 | 046/025 | | | 70 | A- | | 08 | 16 | |
| 217532 | DATA STRU. & ALGORITHMS LAB. | | | | 017/025 | 016/025 | | | 66 | A | | 08 | 16 | |
| 217533 | PROJECT BASED LEARNING II | | | | 036/050 | | | | 80 | A | | 08 | 16 | |
| 217534 | CODE OF CONDUCT | | | | 014/025 | | | | 56 | B+ | | 07 | 07 | |
| 217535D | STRESS RELIEF: YOGA & MEDIT. | | | | | | | | AC | 00 | AC | 00 | 00 | |

SECOND YEAR SEMA : 6.C2. TOTAL CREDITS EARNED : 44

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SEAT NO.: S190642066 NAME: RADHAKA USHAK DEEPA
MOTHER: VATSALAM

PRV: 72256122 C.G.: JCOE1841
TUT Tot% Grd Grp Cp Pw ORD

| SEM | COURSE NAME | ISE | ESE | TOTAL | TR | VR | OR | TUT | Tot% | Grd | Grp | Cp | Pw | ORD |
|---------|-------------------------------|---------|---------|---------|---------|---------|----|-----|------|-----|-----|----|----|-----|
| 210241 | DISCRETE MATHEMATICS | 012/030 | 030/070 | 042/100 | | | | | 42 | C | | 04 | 12 | |
| 210242 | FUNDAMENTALS OF DATA STRU. | 016/030 | 029/070 | 045/100 | | | | | 45 | C | | 05 | 15 | |
| 210243 | OBJECT ORIENTED PROG. (OOP) | 015/030 | 028/070 | 043/100 | | | | | 43 | C | | 04 | 12 | 18 |
| 210244 | COMPUTER GRAPHICS | 015/030 | 028/070 | 043/100 | | | | | 43 | C | | 04 | 12 | |
| 217521 | OPERATING SYSTEMS | 012/030 | 033/070 | 045/100 | | | | | 45 | C | | 05 | 15 | |
| 217522 | DATA STRUCTURES LABORATORY | | | | 019/025 | 021/050 | | | 58 | B+ | | 07 | 14 | |
| 217523 | OOP & COMP. GRAPHICS LAB. | | | | 017/025 | 017/025 | | | 60 | B+ | | 08 | 16 | |
| 217524 | OPERATING SYSTEMS LABORATORY | | | | 018/025 | | | | 72 | A | | 05 | 09 | |
| 217525 | BUSINESS COMMUNICATION SKILLS | | | | 018/025 | | | | 72 | A | | 03 | 09 | |
| 217526 | HUMANITY AND SOCIAL SCIENCE | | | | 017/025 | | | | 68 | B+ | | 05 | 08 | |
| 217527C | ENVIRONMENTAL STUDIES | | | | | | | | AC | 00 | AC | 00 | 00 | |

SEM-22
210252 DATA STRU. & ALGORITHMS.
210253 SOFTWARE ENGINEERING
217528 STATISTICS
217529 INTERNET OF THINGS
217530 MANAGEMENT INFORMATION SYSTEM
217531 INTERNET OF THINGS LABORATORY
217532 DATA STRU. & ALGORITHMS LAB.
217533 PROJECT BASED LEARNING II
217534 CODE OF CONDUCT
217535D STRESS RELIEF: YOGA & MEDIT.

| SEM | COURSE NAME | ISE | ESE | TOTAL | TR | VR | OR | TUT | Tot% | Grd | Grp | Cp | Pw | ORD |
|---------|-------------------------------|---------|---------|---------|---------|---------|----|-----|------|-----|-----|----|----|-----|
| 210252 | DATA STRU. & ALGORITHMS. | 014/030 | 028/070 | 042/100 | | | | | 42 | C | | 04 | 12 | |
| 210253 | SOFTWARE ENGINEERING | 025/030 | 028/070 | 040/100 | | | | | 40 | C | | 04 | 12 | |
| 217528 | STATISTICS | 025/030 | 018/070 | 038/100 | | | | | 38 | C | | 00 | 00 | |
| 217529 | INTERNET OF THINGS | 012/030 | 029/070 | 041/100 | | | | | 41 | C | | 04 | 12 | |
| 217530 | MANAGEMENT INFORMATION SYSTEM | 012/030 | 029/070 | 040/100 | | | | | 40 | C | | 04 | 12 | 28 |
| 217531 | INTERNET OF THINGS LABORATORY | | | | 025/050 | 017/025 | | | 69 | B+ | | 08 | 16 | |
| 217532 | DATA STRU. & ALGORITHMS LAB. | | | | 018/025 | 016/025 | | | 70 | B+ | | 08 | 16 | |
| 217533 | PROJECT BASED LEARNING II | | | | 034/050 | | | | 68 | B+ | | 08 | 16 | |
| 217534 | CODE OF CONDUCT | | | | 018/025 | | | | 72 | B+ | | 06 | 09 | |
| 217535D | STRESS RELIEF: YOGA & MEDIT. | | | | | | | | AC | 00 | AC | 00 | 00 | |

SECOND YEAR SEMA : 6.C2. TOTAL CREDITS EARNED : 41

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problem solved