



SUMATHI REDDY

INSTITUTE OF TECHNOLOGY FOR WOMEN

L e a r n i n g a t i t s b e s t

Affiliated to JNTUH - Approved by AICTE

2.5.1 Mechanism of internal/external assessment is transparent and the grievance redressal system is time- bound and efficient

Response: Sumathi Reddy Institute of Technology for Women, Ananthasagar, adheres to academic standards and University requirements. The guidelines include internal and external evaluation processes as well as the minimal attendance standards for end-of-semester exams. There are two midterm exams used for internal evaluation. Each midterm question paper consists of both objective and descriptive questions. The subject experts produce a set of question papers for the test. The scripts are evaluated and checked by instructors and students within the specified time. Midterm marks are uploading to the University portal.

Both internal and external evaluations of the lab are conducted. Internal evaluation is based on regularity, record, and viva, including the internal test carrying 25 marks. The external examiner and concerned laboratory faculty will handle the final lab exam. Projects and seminars are also transparently evaluated. Using guidelines, the faculty assesses the student's presentation abilities during the seminars. Project Review Committee (PRC) at the departmental level constituted by HoD, senior faculty members, and concerned guides. Project reviews are carried out on a regular basis to monitor the student's performance.

Internal examination related complaints are handled completely transparently at the Sumathi Reddy Institute of Technology for Women. The dates of the internal exams are planned in accordance with the academic calendar and given to the students well in advance. The concern subject faculty evaluates the internal examination answer sheets. Students received the internal test papers and if there are any grievances concerned subject faculty re-evaluate the answer script in the class room on the day of paper distribution.

The following are the general grievances submitted by students regarding internal exams:

- Counting mistakes
- Answers attempted by students were not evaluated



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Many of the problems that students bring to the attention of the faculty such as differences in



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evaluation or totaling are promptly remedied. Any student who is still dissatisfied with the evaluation and the distribution of marks can communicate with the relevant department head.



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| S. No. | INDEX | Link |
|--------|--|-------------------------------|
| 1 | Examination Branch Process Flowchart-1 | View document |
| 2 | Mechanism of Internal Grievance Flowchart-2 | View document |
| 3 | Mechanism of External Grievance Flowchart-3 | View document |
| 4 | Examination Committee Circular | View document |
| 5 | Academic Calendar | View document |
| 6 | Monitoring Committee Circular | View document |
| 7 | Notice for Mid Question Paper | View document |
| 8 | Schedule | View document |
| 9 | Instructions to the Invigilators | View document |
| 10 | Duty List | View document |
| 11 | Seating Arrangement | View document |
| 12 | Attendance | View document |
| 13 | Absentees Report | View document |
| 14 | Question Paper | View document |
| 15 | Answer Key | View document |
| 16 | Answer Script | View document |
| 17 | Grievance-External Exams | View document |



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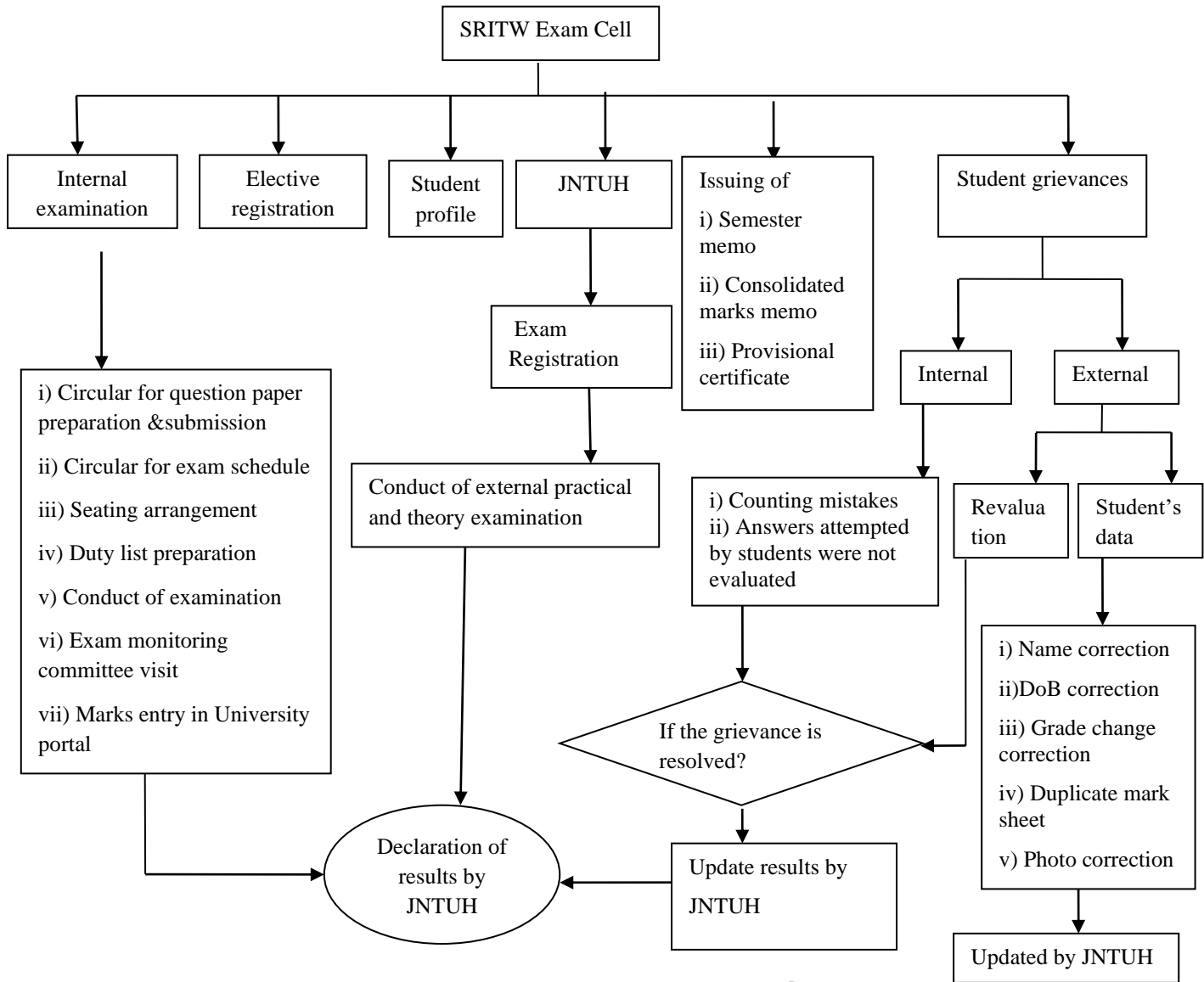
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Examination Branch Process



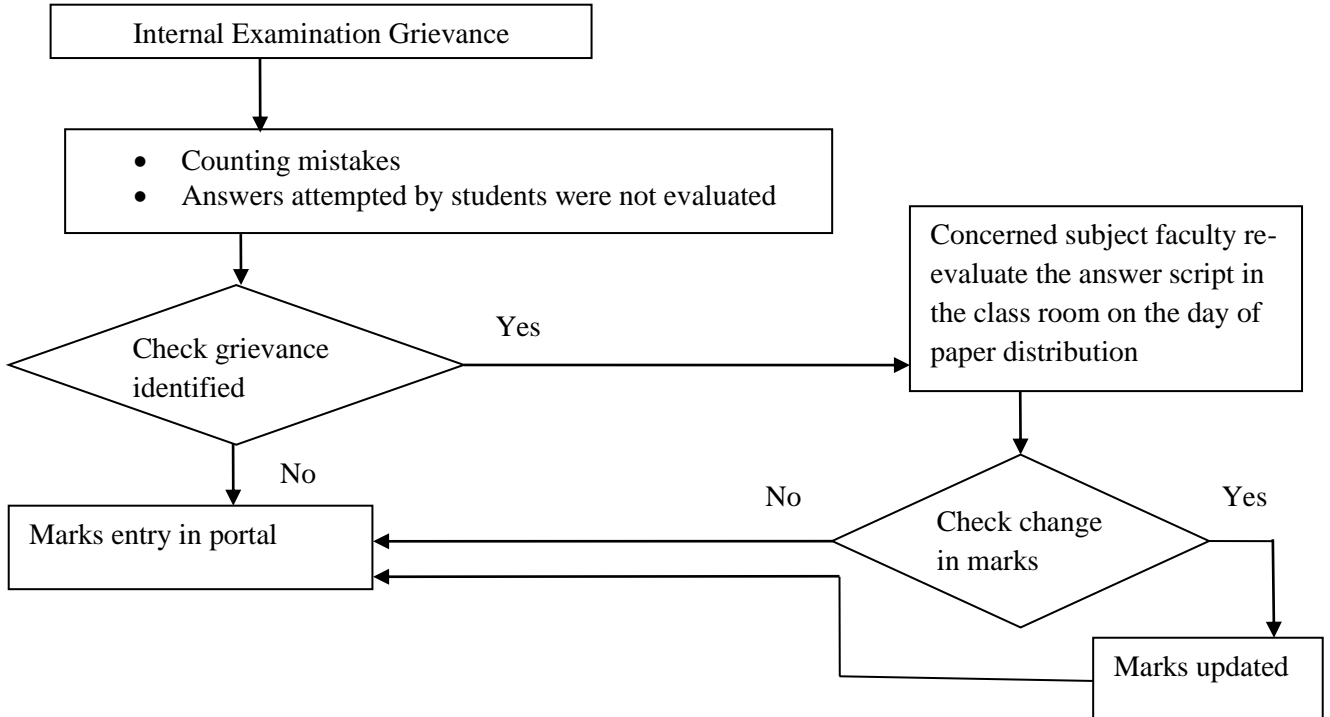
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Mechanism of Internal Grievance



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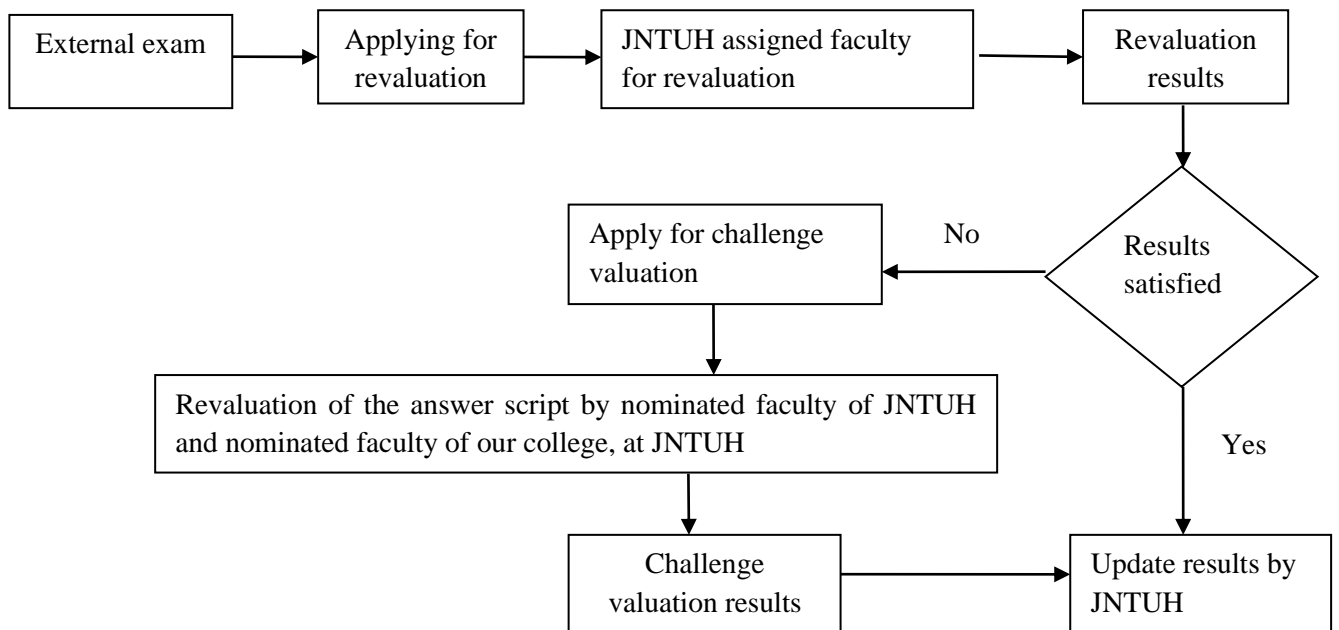
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Mechanism of External Grievance



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Date: 12-06-2022

Circular

The following listed staff nominated as exam branch committee members for the smooth conduction of the exams.

| S. No | Name of the staff | Designation |
|-------|--------------------|-------------|
| 1 | Mr. N. Govardhan | Chairman |
| 2 | Mr. E. Kumaraswamy | Member |
| 3 | Mr. MD. Rafee | Member |
| 4 | Ms. M. Prathibha | Member |

Role and responsibilities of the committee

The following common activities to be carried out in internal examination

- Examination hall and seating arrangements, collecting question papers from the faculty, selection of question paper set, photocopying question papers for all tests (Internal examinations). Monitoring the students during the commencement of the examinations. Collection of answer booklets and absentees report in the internal examination. Issuing the scripts to concerned subject faculty for evaluation and collecting award list along with the valuated scripts within two days after completion of the exam.

The following common activities to be carried out in the university examination

- Preparing practical exam schedule, circulate the theory exam schedule / practical schedule in all class rooms. Monitoring the students during the commencement of exams. Collecting the university booklets.
- Result Analysis

Tenure of the committee

- The internal faculty members of the committee shall hold the office for a minimum of three years.

Copy to:

1. HoD's (CSE, ECE, H&Sc)
2. Circulation among the staff



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Academic Year 2022–2023



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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

ACADEMIC CALENDAR 2022-23

B. Tech./B. Pharm. III YEAR I & II SEMESTERS

I SEM

| S. No | Description | Duration | |
|-------|---|-------------------|----------------------|
| | | From | To |
| 1 | Commencement of I Semester classwork | 09.09.2022 | |
| 2 | 1 st Spell of Instructions (including Dussehra Recess) | 09.09.2022 | 10.11.2022 (9 Weeks) |
| 3 | Dussehra Recess | 03.10.2022 | 08.10.2022 (1 Week) |
| 4 | First Mid Term Examinations | 11.11.2022 | 17.11.2022 (1 Week) |
| 5 | Submission of First Mid Term Exam Marks to the University on or before | 24.11.2022 | |
| 6 | 2 nd Spell of Instructions | 18.11.2022 | 12.01.2023 (8 Weeks) |
| 7 | Second Mid Term Examinations | 16.01.2023 | 21.01.2023 (1 Week) |
| 8 | Preparation Holidays and Practical Examinations | 23.01.2023 | 28.01.2023 (1 Week) |
| 9 | Submission of Second Mid Term Exam Marks to the University on or before | 30.01.2023 | |
| 10 | End Semester Examinations | 30.01.2023 | 11.02.2023 (2 Weeks) |

Note: No. of Working/ instructional days: 92

II SEM

| S. No | Description | Duration | |
|-------|---|-------------------|-----------------------|
| | | From | To |
| 1 | Commencement of II Semester classwork | 13.02.2023 | |
| 2 | 1 st Spell of Instructions | 13.02.2023 | 08.04.2023 (8 Weeks) |
| 3 | First Mid Term Examinations | 10.04.2023 | 15.04.2023 (1 Week) |
| 4 | Submission of First Mid Term Exam Marks to the University on or before | 22.04.2023 | |
| 5 | 2 nd Spell of Instructions (including Summer Vacation) | 17.04.2023 | 24.06.2023 (10 Weeks) |
| 6 | Summer Vacation | 15.05.2023 | 27.05.2023 (2 Weeks) |
| 7 | Second Mid Term Examinations | 26.06.2023 | 01.07.2023 (1 Week) |
| 8 | Preparation Holidays and Practical Examinations | 03.07.2023 | 08.07.2023 (1 Week) |
| 9 | Submission of Second Mid Term Exam Marks to the University on or before | 08.07.2023 | |
| 10 | End Semester Examinations | 10.07.2023 | 22.07.2023 (2 Weeks) |

Note: No. of Working/ instructional days: 90


 REGISTER
 OFFICER



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Date: 12-06-2022

Circular

The committee with the following member is constituted to monitor the conduct of examinations for the academic year 2022-2023.

| S. No. | Name of the staff | Department | Designation |
|--------|--------------------|------------|-------------|
| 1 | Mr. N. Govardhan | ECE | Convenor |
| 2 | Mr. E. Kumaraswamy | ECE | Member |
| 3 | Dr. E. Sudarshan | CSE (HoD) | Professor |
| 4 | Dr. K. Mahendar | ECE (HoD) | Professor |
| 5 | Dr. N. Srivani | H&Sc (HoD) | Professor |

The convenor of the committee has to submit a report to the undersigned immediately after the conduction of examinations on daily basis. The committee members are requested to visit the examination halls during the exams.



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Internal Exams



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Date: 20-06-2023

EXAMINATION BRANCH

NOTICE

All the teaching staff are here by informed that the **III B.Tech. II Sem. II-Mid Exams** are commencing from **27-06-2023 to 30-06-2023**. It is required to set the question papers according to the syllabus.

Descriptive question papers **in 3 sets** and objective type question papers in **5 sets** are to be mailed to **ebsritw@gmail.com** on or before **24-06-2023** before **10:30 a.m.**, positively.

Mail Id: **ebsritw@gmail.com**

NOTE-1 : The model question paper is given with this notice.

NOTE-2 : Faculty failed to send objective & descriptive paper by due date have take permission from principal for the consideration of question paper.

NOTE-3 : Questions in the 3 sets of descriptive paper should be different.

In-Charge of Examinations

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KUKATPALLY, HYDERABAD - 500085

EXAMINATION BRANCH

III YEAR B.TECH - II SEMESTER- R18 REGULATION II - MID TERM EXAMINATIONS JUNE-2023

TIMETABLE

TIME □ FN: 10.00 AM TO 11.20 AM
AN: 02.30 PM TO 03.50 PM

| BRANCH | 27-06-2023 FN TUESDAY | 27-06-2023 AN TUESDAY | 28-06-2023 FN WEDNESDAY | 28-06-2023 AN WEDNESDAY | 30-06-2023 AN FRIDAY |
|----------|--------------------------|---------------------------|------------------------------------|--------------------------------|------------------------------------|
| (04-ECE) | Antennas and Propagation | Digital Signal Processing | Mobile Communications and Networks | VLSI Design | Entrepreneurship |
| (05-CSE) | Machine Learning | Compiler Design | Design & Analysis of Algorithms | Software Testing Methodologies | Fundamentals of Internet of Things |
| (66-CSM) | Artificial Intelligence | DevOps | Natural Language Processing | Data Mining | Fundamentals of Internet of Things |
| (67-CSD) | Machine Learning | Compiler Design | Big Data Analytics | Software Testing Methodologies | Fundamentals of Internet of Things |



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Date: 12-06-2023

EXAMINATION BRANCH

Instructions to the Invigilators

1. Report to the exam branch 20 minutes before and carry the examination material to the exam hall.
2. Do not carry mobile phones to the examination hall.
3. Do not chat with the faculty with whom you are sharing invigilation duty.
4. Do not chat with the faculty outside the examination hall.
5. Do not sit continuously or doze in the examination hall during invigilation.
6. Make rounds continuously to identify any suspicious movements of students and material for copying.
7. Invigilation can be altered through a proper channel (through HoD) with a valid reason one day prior to exam duty.
8. If faculty attending college duty, invigilation should not be altered, under health and other college duties, faculty can alter the duty through proper channel.
9. On the spot, invigilation alterations are not accepted.
10. For any reason (conferences, health issues, workshops, on duty) if faculty are not able to perform invigilation duties or not willing to perform invigilation duties, take prior permission from the chief superintendent and inform the same to the exam branch.
11. Availing of casual leaves during examinations has to be brought to the notice of the examination branch with proper alteration.
12. Do not let anything be with the students except hall tickets, pens, pencils, and a scientific calculator (without a lid).
13. Do not ask the student to leave the answer booklet on the desk, ask the students to surrender the answer booklet to the invigilators.



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L e a r n i n g a t i t s b e s t

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14. Give an announcement in the exam hall that, “neither invigilators nor college is responsible for the mobile phones or personal belongings.
15. Deficiency of the question papers or any other issues can be brought to the notice of the exam branch through any one of the students in the exam hall or exam branch incharges in rounds.
16. Due to the delay from the JNTUH regarding the number of students allotted to the exam center, examination duties will be allotted a day before the examination only and communicated through the college WhatsApp group.
17. Ask the students to write the hall ticket numbers on the question paper and not to write anything on the question paper/hall ticket.
18. Do not let the students leave the exam hall. If a student leaves before 90 minutes, ask the student to surrender his/her question paper.
19. Do not let the students be in the corridors after their examination.
20. Please read the instructions before each examination is conducted.

In-charge of Examinations



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Date: 23-05-2023

EXAMINATION BRANCH

Duty List for Mid-II Examination (3rd Year-2nd Semester)

| S.No | Faculty Name | 27-06-2023 (FN) | 27-06-2023 (AN) | 28-06-2023 (FN) | 28-06-2023 (AN) | 30-06-2023 (AN) |
|------|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1. | Mr. K. Ranganath | * | * | * | | * |
| 2. | Mr. A. Mahesh | * | | * | * | |
| 3. | Ms. A. Kalyani | * | * | | * | * |
| 4. | Ms.T. Sravanthi | | * | * | * | * |
| 5. | Mr.G. Sukhaveerji | * | * | * | * | * |
| 6. | Ms. M. Sruthi | * | * | * | * | * |
| 7. | Ms. M. Swetha | | * | * | * | |
| 8. | Ms.M.Vishali | * | * | | * | * |
| 9. | Mr. E. Hari Krishna | | * | * | * | * |
| 10. | Dr. M. Gopal | * | | * | | * |
| 11. | Ms. D. Raghava Kumari | * | * | | * | * |
| 12. | Ms.Ch. Padmaja | * | * | * | | * |
| 13. | Mr. K. Ravikiran | * | | * | * | * |
| 14. | Mr. K. Srinivas | * | * | * | * | |
| 15. | Ms. M. Anitha | * | * | * | * | * |

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SEATING ARRANGEMENT

III B.Tech. II Sem. II Mid Examinations – 27th, 28th & 30th June-2023

| Sl. No. | Room No. | BR | HALL TICKET No. | | TOTAL | GRAND TOTAL |
|---------|----------|-----|-----------------|------------|-------|-------------|
| | | | From | To | | |
| 1 | 116 | ECE | 206Y1A0401 | 206Y1A0424 | 24 | 48 |
| | | CSE | 206Y1A0501 | 206Y1A0524 | 24 | |
| 2 | 117 | ECE | 206Y1A0425 | 206Y1A0449 | 24 | 48 |
| | | CSE | 206Y1A0525 | 206Y1A0548 | 24 | |
| 3 | 118 | ECE | 206Y1A0450 | 216Y5A0411 | 24 | 48 |
| | | CSE | 206Y1A0550 | 206Y1A0574 | 24 | |
| 4 | 301 | CSM | 206Y1A6601 | 206Y1A6624 | 24 | 48 |
| | | CSE | 206Y1A0575 | 206Y1A0598 | 24 | |
| 5 | 307 | CSM | 206Y1A6625 | 206Y1A6648 | 24 | 46 |
| | | CSE | 206Y1A0599 | 216Y5A0514 | 22 | |
| 6 | 308 | ECE | 216Y5A0412 | 216Y5A0422 | 11 | 47 |
| | | CSM | 206Y1A6649 | 216Y5A6605 | 9 | |
| | | CSD | 206Y1A6701 | 216Y5A6704 | 27 | |
| TOTAL | | | | | | 285 |

Note: The students are required to be present in their respective seats in the Examination Hall at least **15 minutes** before commencement of the Examination.


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III B.Tech.II SEM II - Mid Examinations, JUNE- 2023 Students Attendance Sheet

ECE

Room 116

| S. No | Hall Ticket No | 27-06-2023 | 27-06-2023 | 28-06-2023 | 28-06-2023 | 30-06-2023 |
|--------------------|----------------|------------------|------------------|------------------|------------------|------------------|
| | | FN | AN | FN | AN | AN |
| | | Sign | Sign | Sign | Sign | Sign |
| 1 | 206Y1A0401 | Abhinaya | Abhinaya | Abhinaya | Abhinaya | Abhinaya |
| 2 | 206Y1A0402 | A.Lahari | A.Lahari | Lahari | Lahari | Lahari |
| 3 | 206Y1A0403 | A. pravalika | A. pravalika | A. pravalika | A. pravalika | A. pravalika |
| 4 | 206Y1A0404 | A. Vasavi | A. Vasavi | A. Vasavi | A. Vasavi | A. Vasavi |
| 5 | 206Y1A0405 | Jashnic | Jashnic | Jashnic | Jashnic | Jashnic |
| 6 | 206Y1A0406 | B. Rajalaxmi | B. Rajalaxmi | B. Rajalaxmi | B. Rajalaxmi | B. Rajalaxmi |
| 7 | 206Y1A0407 | Shrus | Shrus | Shrus | Shrus | Shrus |
| 8 | 206Y1A0408 | B.lakshiprasanna | B.lakshiprasanna | B.lakshiprasanna | B.lakshiprasanna | B.lakshiprasanna |
| 9 | 206Y1A0409 | Bhoomika | Bhoomika | Bhoomika | Bhoomika | Bhoomika |
| 10 | 206Y1A0410 | ← AB → | ← AB → | ABSENT | ← AB → | ← AB → |
| 11 | 206Y1A0411 | Sushma | Sushma | Sushma | Sushma | Sushma |
| 12 | 206Y1A0412 | ← AB → | ← AB → | ABSENT | ← AB → | ← AB → |
| 13 | 206Y1A0413 | B. Sangeetha | B. Sangeetha | B. Sangeetha | B. Sangeetha | B. Sangeetha |
| 14 | 206Y1A0414 | B. Harika | B. Harika | B. Harika | B. Harika | B. Harika |
| 15 | 206Y1A0415 | ← AB → | ← AB → | Keerthana-ch | Keerthana-ch | Keerthana-ch |
| 16 | 206Y1A0416 | ← AB → | ← AB → | Dinika Reddy | Dinika Reddy | Dinika Reddy |
| 17 | 206Y1A0417 | D. Adakumitha | D. Adakumitha | D. Adakumitha | D. Adakumitha | D. Adakumitha |
| 18 | 206Y1A0418 | E. Sathwika | E. Sathwika | E. Sathwika | E. Sathwika | E. Sathwika |
| 19 | 206Y1A0419 | E. Soujanya | E. Soujanya | E. Soujanya | E. Soujanya | E. Soujanya |
| 20 | 206Y1A0420 | G. Harshitha | G. Harshitha | G. Harshitha | G. Harshitha | G. Harshitha |
| 21 | 206Y1A0421 | ← AB → | ← AB → | J. Gouri Priya | J. Gouri Priya | J. Gouri Priya |
| 22 | 206Y1A0422 | G. Deekshitha | G. Deekshitha | G. Deekshitha | G. Deekshitha | G. Deekshitha |
| 23 | 206Y1A0423 | H. Deepika | H. Deepika | H. Deepika | H. Deepika | H. Deepika |
| 24 | 206Y1A0424 | Huzairfa | Huzairfa | Huzairfa | Huzairfa | Huzairfa |
| Present | | 19 | 19 | 22 | 22 | 22 |
| Absent | | 5 | 5 | 2 | 02 | 02 |
| Total | | 24 | 24 | 24 | 24 | 24 |
| Sign. of the Invg. | | Prasanth | MO | By | Sout | ee p |

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WARANGAL - 508371 (TS) Website: www.sritw.org

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III B.Tech.II SEM II - Mid Examinations, JUNE- 2023 Students Attendance Sheet

ECE

Room

217

| S. No | Hall Ticket No | 27-06-2023 | 27-06-2023 | 28-06-2023 | 28-06-2023 | 30-06-2023 |
|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | FN | AN | FN | AN | AN |
| | | Sign | Sign | Sign | Sign | Sign |
| 1 | 206Y1A0425 | J. Divij | J. Divij | J. Divij | J. Divij | J. Divij |
| 2 | 206Y1A0427 | Laxmipavani | Laxmipavani | Laxmi Pavani | Laxmi Pavani | Laxmipavani |
| 3 | 206Y1A0428 | J. Chandana | J. Chandana | J. Chandana | J. Chandana | J. Chandana |
| 4 | 206Y1A0429 | K. Poojitha | K. Poojitha | K. Poojitha | K. Poojitha | K. Poojitha |
| 5 | 206Y1A0430 | K. Sai Sruithi | K. Sai Sruithi | K. Sai Sruithi | K. Sai Sruithi | K. Sai Sruithi |
| 6 | 206Y1A0431 | K. Harika | K. Harika | K. Harika | K. Harika | K. Harika |
| 7 | 206Y1A0432 | K. Amulya | K. Amulya | K. Amulya | K. Amulya | K. Amulya |
| 8 | 206Y1A0433 | M. Madhusree | M. Madhusree | M. Madhusree | M. Madhusree | M. Madhusree |
| 9 | 206Y1A0434 | M. Aishwry | M. Aishwry | M. Aishwry | M. Aishwry | M. Aishwry |
| 10 | 206Y1A0435 | (Raj) | (Raj) | (Raj) | (Raj) | (Raj) |
| 11 | 206Y1A0436 | M. Ragini | M. Ragini | M. Ragini | M. Ragini | M. Ragini |
| 12 | 206Y1A0437 | M. Aparna | M. Aparna | M. Aparna | M. Aparna | M. Aparna |
| 13 | 206Y1A0438 | N. Sushma | N. Sushma | N. Sushma | N. Sushma | N. Sushma |
| 14 | 206Y1A0439 | ABSENT | ABSENT | ABSENT | AB | AB |
| 15 | 206Y1A0440 | ABSENT | ABSENT | P. Rowshini | P. Rowshini | P. Rowshini |
| 16 | 206Y1A0441 | P. Navya | P. Navya | P. Navya | P. Navya | P. Navya |
| 17 | 206Y1A0442 | P. Sanitha | P. Sanitha | P. Sanitha | P. Sanitha | P. Sanitha |
| 18 | 206Y1A0443 | P. Vishwanth | P. Vishwanth | P. Vishwanth | P. Vishwanth | P. Vishwanth |
| 19 | 206Y1A0444 | P. Akhila | P. Akhila | P. Akhila | P. Akhila | P. Akhila |
| 20 | 206Y1A0445 | P. Haritha | P. Haritha | P. Haritha | P. Haritha | P. Haritha |
| 21 | 206Y1A0446 | P. Nikshitha | P. Nikshitha | P. Nikshitha | P. Nikshitha | P. Nikshitha |
| 22 | 206Y1A0447 | Present | P. Gayathri | P. Gayathri | P. Gayathri | P. Gayathri |
| 23 | 206Y1A0448 | Present | P. Sanjana | P. Sanjana | P. Sanjana | P. Sanjana |
| 24 | 206Y1A0449 | Present | P. Balakrishna | P. Balakrishna | P. Balakrishna | P. Balakrishna |
| Present | | 22 | 22 | 23 | 23 | 23 |
| Absent | | 02 | 02 | 01 | 01 | 01 |
| Total | | 24 | 24 | 24 | 24 | 24 |
| Sign. of the Invig. | | MS | Anitha | D | VS | MS |



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WARANGAL 506371 Website: www.sritw.org

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Ananthasagar, Hasanparthy, Warangal-506371, Telangana

Phoneno: 0870-2818302. Email: principal@sritw.org



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III B.Tech.II SEM II - Mid Examinations, JUNE- 2023 Students Attendance Sheet

ECE
118-202

Room

| S. No | Hall Ticket No | 27-06-2023 | 27-06-2023 | 28-06-2023 | 28-06-2023 | 30-06-2023 |
|-------|-------------------|-------------|-------------|-------------|-------------|-------------|
| | | FN | AN | FN | AN | AN |
| | | Sign | Sign | Sign | Sign | Sign |
| 1 | 206Y1A0450 | -AB- | -AB- | -AB- | -AB- | -AB- |
| 2 | 206Y1A0451 | R.Sindhu | R.Sindhu | R.Sindhu | R.Sindhu | R.Sindhu |
| 3 | 206Y1A0452 | S.Usha | S.Usha | S.Usha | S.Usha | S.Usha |
| 4 | 206Y1A0453 | S.Akhila | S.Akhila | S.Akhila | S.Akhila | S.Akhila |
| 5 | 206Y1A0454 | S.Gayathri | S.Gayathri | S.Gayathri | S.Gayathri | S.Gayathri |
| 6 | 206Y1A0455 | -AB- | -AB- | -AB- | -AB- | -AB- |
| 7 | 206Y1A0456 | T.Shirisha | T.Shirisha | T.Shirisha | T.Shirisha | T.Shirisha |
| 8 | 206Y1A0457 | T.Vaishnavi | T.Vaishnavi | T.Vaishnavi | T.Vaishnavi | T.Vaishnavi |
| 9 | 206Y1A0458 | T.Jashwanth | T.Jashwanth | T.Jashwanth | T.Jashwanth | T.Jashwanth |
| 10 | 206Y1A0459 | -AB- | -AB- | -AB- | -AB- | T.Poojitha |
| 11 | 206Y1A0460 | T.Meghana | T.Meghana | T.Meghana | T.Meghana | T.Meghana |
| 12 | 206Y1A0461 | V.Akhila | V.Akhila | V.Akhila | V.Akhila | V.Akhila |
| 13 | 206Y1A0462 | Y.Nikitha | Y.Nikitha | Y.Nikitha | Y.Nikitha | Y.Nikitha |
| 14 | 216Y5A0401 | A.Rishika | A.Rishika | A.Rishika | A.Rishika | A.Rishika |
| 15 | 216Y5A0402 | Ashwini | Ashwini | Ashwini | Ashwini | Ashwini |
| 16 | 216Y5A0403 | B.Shivani | B.Shivani | B.Shivani | B.Shivani | B.Shivani |
| 17 | 216Y5A0404 | Kanya.B | Kanya.B | Kanya.B | Kanya.B | Kanya.B |
| 18 | 216Y5A0405 | B.Shivani | B.Shivani | B.Shivani | B.Shivani | B.Shivani |
| 19 | 216Y5A0406 | B.Sathya | B.Sathya | B.Sathya | B.Sathya | B.Sathya |
| 20 | 216Y5A0407 | Gayathri | Gayathri | Gayathri | Gayathri | Gayathri |
| 21 | 216Y5A0408 | Kanya.ch | Kanya.ch | Kanya.ch | Kanya.ch | Kanya.ch |
| 22 | 216Y5A0409 | D.Prasanna | D.Prasanna | D.Prasanna | D.Prasanna | D.Prasanna |
| 23 | 216Y5A0410 | Huma Humera | Huma Humera | Huma Humera | Huma Humera | Huma Humera |
| 24 | 216Y5A0411 | Present | Present | Present | Present | Present |
| | Present | 21 | 21 | 21 | 21 | 21 |
| | Absent | 03 | 03 | 03 | 03 | 03 |
| | Total | 24 | 24 | 24 | 24 | 24 |
| | Sign. of the Inv. | [Signature] | [Signature] | [Signature] | [Signature] | [Signature] |



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Affiliated to JNTUH - Approved by AICTE

III B.Tech.II SEM II - Mid Examinations, JUNE- 2023 Students Attendance Sheet

ECE
Room 308

| S. No | Hall Ticket No | 27-06-2023 | 27-06-2023 | 28-06-2023 | 28-06-2023 | 30-06-2023 |
|--------------------|----------------|---------------|---------------|---------------|---------------|---------------|
| | | FN | AN | FN | AN | AN |
| | | Sign | Sign | Sign | Sign | Sign |
| 1 | 216Y5A0412 | K. Sowmya | K. Sowmya | K. Sowmya | K. Sowmya | K. Sowmya |
| 2 | 216Y5A0413 | K. Pranavi | K. Pranavi | K. Pranavi | K. Pranavi | K. Pranavi |
| 3 | 216Y5A0414 | M. Prathyusha | M. Prathyusha | M. Prathyusha | M. Prathyusha | M. Prathyusha |
| 4 | 216Y5A0415 | M. Chandana | M. Chandana | M. Chandana | M. Chandana | M. Chandana |
| 5 | 216Y5A0416 | MMP | MMP | MMP | MMP | MMP |
| 6 | 216Y5A0417 | M. Kalyani | M. Kalyani | M. Kalyani | M. Kalyani | M. Kalyani |
| 7 | 216Y5A0418 | N. Manisha | N. Manisha | N. Manisha | N. Manisha | N. Manisha |
| 8 | 216Y5A0419 | M. Anasa | M. Anasa | M. Anasa | M. Anasa | M. Anasa |
| 9 | 216Y5A0420 | shimona | shimona | shimona | shimona | shimona |
| 10 | 216Y5A0421 | T. Niharika | T. Niharika | T. Niharika | T. Niharika | T. Niharika |
| 11 | 216Y5A0422 | V. Zahari | V. Zahari | V. Zahari | V. Zahari | V. Zahari |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| Present | | 11 | 11 | 11 | 11 | 11 |
| Absent | | 00 | 0 | 00 | 00 | - |
| Total | | 11 | 11 | 11 | 11 | 11 |
| Sign. of the Invg. | | Anitha | Shate | Waly | S. V. S. | By |



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EXAMINATION BRANCH

ABSENT LIST

III B.Tech. II Sem. II Mid Examinations - 27th, 28th & 30th June-2023

Date: 27/06/2023 FN:

Subs: AAP, ML, AI, ML.

| Room No. | BR | HALL TICKET No. | | H.T.No. | Inv. Sign |
|----------|-----|-----------------|------------|-----------------------------|-----------|
| | | From | To | | |
| 116 | ECE | 206Y1A0401 | 206Y1A0424 | 410, 412, 415, 416, 421 — ⑤ | |
| | CSE | 206Y1A0501 | 206Y1A0524 | Nil | |
| 117 | ECE | 206Y1A0425 | 206Y1A0449 | 20-439, 440 — ② | |
| | CSE | 206Y1A0525 | 206Y1A0548 | 20-548 — ① | |
| 118 | ECE | 206Y1A0450 | 206Y5A0411 | 20-450, 55, 59 — ③ | |
| | CSE | 206Y1A0550 | 206Y1A0574 | 20-566 — ① | |
| 301 | CSM | 206Y1A6601 | 206Y1A6624 | Nil | |
| | CSE | 206Y1A0575 | 216Y1A0598 | Nil | |
| 307 | CSM | 206Y1A6625 | 216Y5A6648 | 20-6639, 6645 — ② | |
| | CSE | 206Y1A0599 | 206Y5A0514 | 20-5A7 — ① | |
| 308 | ECE | 216Y5A0412 | 216Y5A0422 | Nil | |
| | CSM | 206Y1A6649 | 216Y5A6605 | Nil | |
| | CSD | 206Y1A6701 | 216Y5A6704 | 20-6722, 21-6702 — ② | |

| Branch | Total Absent |
|--------|--------------|
| ECE | 10 |
| CSE | 03 |
| CSM | 02 |
| CSD | 02 |
| TOTAL | 17 |



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EXAMINATION BRANCH

ABSENT LIST

III B.Tech. II Sem. II Mid Examinations - 27th, 28th & 30th June-2023

Date: 27/06/2023 AN

Subs: DSP, CD, DEVOPS, CD

| Room No. | BR | HALL TICKET No. | | H.T.No. | Inv. Sign |
|----------|-----|-----------------|------------|---------------------------------|-----------|
| | | From | To | | |
| 116 | ECE | 206Y1A0401 | 206Y1A0424 | 20-410, 412, 415, 416, 421 = 05 | |
| | CSE | 206Y1A0501 | 206Y1A0524 | Nil | |
| 117 | ECE | 206Y1A0425 | 206Y1A0449 | 20-439, 440 = 02 | |
| | CSE | 206Y1A0525 | 206Y1A0548 | Nil | |
| 118 | ECE | 206Y1A0450 | 206Y5A0411 | 20-450, 55, 59, = 03 | |
| | CSE | 206Y1A0550 | 206Y1A0574 | 20-566 = 01 | |
| 301 | CSM | 206Y1A6601 | 206Y1A6624 | Nil | |
| | CSE | 206Y1A0575 | 216Y1A0598 | Nil | |
| 307 | CSM | 206Y1A6625 | 216Y5A6648 | 6645 = 01 | |
| | CSE | 206Y1A0599 | 206Y5A0514 | 20-5A4 = 01 | |
| 308 | ECE | 216Y5A0412 | 216Y5A0422 | Nil | |
| | CSM | 206Y1A6649 | 216Y5A6605 | Nil | |
| | CSD | 206Y1A6701 | 216Y5A6704 | 20-6722, 21-6702 = 02 | |

| Branch | Total Absent |
|--------|--------------|
| ECE | 10 |
| CSE | 02 |
| CSM | 01 |
| CSD | 02 |
| TOTAL | 15 |



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EXAMINATION BRANCH

ABSENT LIST

III B.Tech. II Sem. II Mid Examinations - 27th, 28th & 30th June-2023

Date: 28/06/23 FN

Subs: MCN, DAA, NLP, BDA

| Room No. | BR | HALL TICKET No. | | H.T.No. | Inv. Sign |
|----------|-----|-----------------|------------|----------------------|-----------|
| | | From | To | | |
| 116 | ECE | 206Y1A0401 | 206Y1A0424 | 20-410,412 | - 02 |
| | CSE | 206Y1A0501 | 206Y1A0524 | Nil | |
| 117 | ECE | 206Y1A0425 | 206Y1A0449 | 20-439 | - 01 |
| | CSE | 206Y1A0525 | 206Y1A0548 | Nil | |
| 118 | ECE | 206Y1A0450 | 206Y5A0411 | 20-450, 455, 459 | - 03 |
| | CSE | 206Y1A0550 | 206Y1A0574 | 20-566 | - 01 |
| 301 | CSM | 206Y1A6601 | 206Y1A6624 | — 0 — | |
| | CSE | 206Y1A0575 | 216Y1A0598 | — 0 — | |
| 307 | CSM | 206Y1A6625 | 216Y5A6648 | 20-6645 | — 01 |
| | CSE | 206Y1A0599 | 206Y5A0514 | 20-5A7 | — 01 |
| 308 | ECE | 216Y5A0412 | 216Y5A0422 | — 0 — | |
| | CSM | 206Y1A6649 | 216Y5A6605 | Nil | |
| | CSD | 206Y1A6701 | 216Y5A6704 | 20-6722, 216Y5A06702 | - 02 |

| Branch | Total Absent |
|--------|--------------|
| ECE | 06 |
| CSE | 02 |
| CSM | 01 |
| CSD | 02 |
| TOTAL | 09 |



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EXAMINATION BRANCH

ABSENT LIST

III B.Tech. II Sem. II Mid Examinations - 27th, 28th & 30th June-2023

Date: 28/06/2023

AU

Subs: VLSI, STM, DM, STM

| Room No. | BR | HALL TICKET No. | | H.T.No. | Inv. Sign |
|----------|-----|-----------------|------------|------------------------------|-----------|
| | | From | To | | |
| 116 | ECE | 206Y1A0401 | 206Y1A0424 | 410, 412 = 02 | |
| | CSE | 206Y1A0501 | 206Y1A0524 | Nil | |
| 117 | ECE | 206Y1A0425 | 206Y1A0449 | 20-439 = 01 | |
| | CSE | 206Y1A0525 | 206Y1A0548 | Nil | |
| 118 | ECE | 206Y1A0450 | 206Y5A0411 | 20-450, 455, 459, = 03 | |
| | CSE | 206Y1A0550 | 206Y1A0574 | 20-566 = 01 | |
| 301 | CSM | 206Y1A6601 | 206Y1A6624 | — 0 — | |
| | CSE | 206Y1A0575 | 216Y1A0598 | — 0 — | |
| 307 | CSM | 206Y1A6625 | 216Y5A6648 | 20- 5A7 6645 = 01 | |
| | CSE | 206Y1A0599 | 206Y5A0514 | 20-5A7 = 01 | |
| 308 | ECE | 216Y5A0412 | 216Y5A0422 | — 0 — | |
| | CSM | 206Y1A6649 | 216Y5A6605 | Nil | |
| | CSD | 206Y1A6701 | 216Y5A6704 | 6722, 21-6702 = 02 | |

| Branch | Total Absent |
|--------|--------------|
| ECE | 06 |
| CSE | 02 |
| CSM | 01 |
| CSD | 02 |
| TOTAL | 11 |



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EXAMINATION BRANCH

ABSENT LIST

III B.Tech. II Sem. II Mid Examinations - 27th, 28th & 30th June-2023

Date: 30/06/2023

(AN
FN)

Subs: EP, FOIT, FOIT, FOIT

| Room No. | BR | HALL TICKET No. | | H.T.No. | | Inv. Sign |
|----------|-----|-----------------|------------|------------------|------|-----------|
| | | From | To | | | |
| 116 | ECE | 206Y1A0401 | 206Y1A0424 | 20-410, 412 | — 02 | |
| | CSE | 206Y1A0501 | 206Y1A0524 | Nil | | |
| 117 | ECE | 206Y1A0425 | 206Y1A0449 | 20-439 | — 01 | |
| | CSE | 206Y1A0525 | 206Y1A0548 | Nil | | |
| 118 | ECE | 206Y1A0450 | 206Y5A0411 | 20-450, 455 | — 02 | |
| | CSE | 206Y1A0550 | 206Y1A0574 | 20-566 | — 01 | |
| 301 | CSM | 206Y1A6601 | 206Y1A6624 | — 0 — | | |
| | CSE | 206Y1A0575 | 216Y1A0598 | — 0 — | | |
| 307 | CSM | 206Y1A6625 | 216Y5A6648 | — 0 — | | |
| | CSE | 206Y1A0599 | 206Y5A0514 | 5A2 | — 01 | |
| 308 | ECE | 216Y5A0412 | 216Y5A0422 | — 0 — | | |
| | CSM | 206Y1A6649 | 216Y5A6605 | — 0 — | | |
| | CSD | 206Y1A6701 | 216Y5A6704 | 20-6722, 21-6702 | =02 | |

| Branch | Total Absent |
|--------|--------------|
| ECE | 05 |
| CSE | 02 |
| CSM | 00 |
| CSD | 02 |
| TOTAL | 09 |



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III B.Tech. II Sem. II-MID EXAMINATIONS (R18) June-2023

ANTENNAS AND PROPAGATION

(ECE)

Date: 27-06-2023 FN

Max. Marks: 10

Duration: 1:00 hr

Answer Any 2 Questions. (2 X 5 = 10 marks)

| Q. No. | Question | Marks | CO | Blooms Level |
|--------|---|-------|----|--------------|
| 1 | Explain the operating modes of helical antenna. | 5 | 1 | 2 |
| 2 | Explain various feeding mechanism used in parabolic reflector antenna | 5 | 1 | 2 |
| 3 | Explain the phenomenon of ducting? What are the conditions required for manifestation of this phenomenon. | 5 | 3 | 1 |
| 4 | Explain maximum usable frequency (MUF) and skip distance | 5 | 3 | 1 |

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SUMATHI REDDY INSTITUTE OF TECHNOLOGY FOR WOMEN
III B.Tech. II Sem II Mid-Term Examinations, June-2023
ANTENNAS AND WAVE PROPAGATION
Objective Exam

BRANCH: ECE

Name: _____ Ht. No. _____

I. Choose the correct alternative:

1. F layer is also called as _____. []
a) Heaviside layer b) Appleton
c) Kennelly layer d) none
2. Maximum usable frequency(f_{muf}) is given by _____. []
a) $\text{Seci } fc$ b) $\text{cosi } fc$ c) $\text{tani } fc$ d) $\text{sini } fc$
3. For _____ value of roughness, reflecting surface is considered as smooth. []
A0001 b) 0.1 c) 10 d) 100
4. Helical antenna can be operated in _____ modes []
a) 2 b) 4 c) 3 d) None
5. From the radiation view point, small loops are _____ radiators []
a) Poor b) Good c) Better d) Excellent
6. The _____ reflector is simplest form of reflector []
a) plane b) flat sheet c) corner d) parabola
7. _____ reflector is less frequency sensitive []
a) plane b) flat sheet c) corner d) parabola
8. Microstrip path antenna is also called as _____ antenna. []
a) Patch antenna b) printed
c) microstrip d) all the above
9. The _____ edge dimension radiates. []
a) W b) L c) H d) None

10. Radio wave is arbitrarily applied to electromagnetic waves in the frequency range from _____ []
a) 1- 1000MHz b) 1-10GHz
c) 0.001 - 10^{16} Hz d) None

II. Fill in the blanks:

1. Path followed by a wave is termed as _____.
2. Modified refractive index modulus is given by _____.
3. Increase in _____, increases the rate of attenuation.
4. Half power beam width of helical antenna is given by _____.
5. Axial ration for helical antenna in axial mode is given by _____.
6. Aperture ratio of parabolic reflector is ratio of diameter "d" of circular aperture to the _____ in free space.
7. In _____ feed system, the feed radiator is placed at the vortex of parabolic reflector.
8. The _____ acts as resonant $\lambda/2$ parallel plate microstrip transmission line.
9. The radiation intensity of microstrip antenna depends on direction of _____.
10. Minimum distance at which wave returns to the ground at critical angle is termed as _____.

-000-

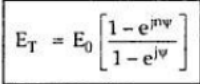


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KEY Paper

Descriptive

- Derive the field equations of small current element?
 Derivation of retarded vector potential – 1 mark
 Derivation of magnetic field components – 2 marks
 Derivation of electric field components – 2 marks
- Derive array factor of n -element uniform linear array?
 Diagram of n element uniform linear array – 1 mark

 Till equation - 2 marks
 Full derivation without any mistakes– 4 marks
- Construction and working of Yagi-uda antenna?
 Diagram – 1 mark
 Constructional specifications – 1 mark
 Explanation – 3 marks
- Directivity of End Fire array
 Definition and basic expression – 1 mark
 Upto finding of limit – 2 marks
 Full derivation– 4 marks

Objective

- B (Zero)
- B(4π)
- B(Radiation Intensity)
- D(Length of Vertical side)
- A(Broadside)
- C(Binomial)
- D(all the above)
- B(4L/λ)
- D(wire)
- D(Improve standing Wave)
- two
- Beam width between first Nulls
- 4
- Similar
- First method
- sin(nψ/2)/sin(ψ/2)
- Driven element
- Flaring
- $\cos^{-1} \left[1 - \frac{(2m+1)\lambda}{2nd} \right]$
- $E_{\theta} = \frac{I_m dl \sin \theta}{4\pi\epsilon} \left[\frac{-\omega \sin \omega t_1}{C^2 r} + \frac{\cos \omega t_1}{Cr^2} + \frac{-\omega \sin \omega t_1}{\omega r^3} \right]$



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INTERNAL EXAMINATION MAIN ANSWER BOOK

Name: Balle Anusha H.T.No. 206Y1A0407

B.Tech: III Year II Sem. Branch/Section ECE-A Date 29/05/2023

Examination : Mid: I / Internal / Practical / Practical Subject : AWP.

| | I | II | III | IV |
|-------|---|----|-----|----|
| a | | | | |
| b | | | | |
| c | | | | |
| Total | | 5 | 3/4 | 5 |

| | |
|----------------|----|
| Marks Obtained | 10 |
| Maximum Marks | 10 |

No. of Additional Used: 1

Shale
Signature of Invigilator

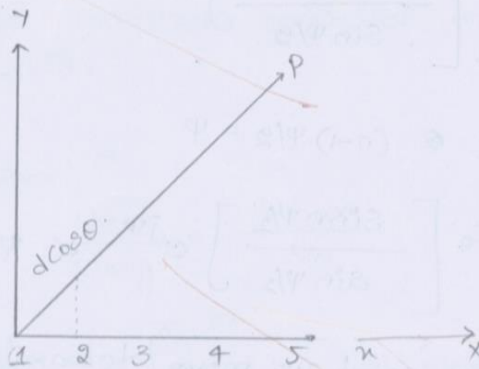
[Signature]
Signature of Examiner

(Start Writing from here)

2. Assay factor for an n-element uniform array :-

→ The uniform linear array the elements consist with equal magnitude along phase angle lines.

→ In the uniform array n-isotropic point source with with equal amplitude and phase.



→ The total pattern fields at the distance of point P, obtained by adding individual sources.

$$E_T = E_1 e^{j0} + E_2 e^{j\psi} + E_3 e^{2j\psi} + E_4 e^{3j\psi} + \dots + E_{n-1} e^{(n-2)j\psi} + E_n e^{(n-1)j\psi}$$

where, $E_1 = E_2 = E_3 = E_0$

$$E_T = E_0 [1 + e^{j\psi} + e^{2j\psi} + \dots + E_n e^{(n-1)j\psi}]$$

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$$E_T(1 - e^{j\psi}) = E_0(1 - e^{jn\psi})$$

$$E_T = E_0 \left[\frac{1 - e^{jn\psi}}{1 - e^{j\psi}} \right]$$

$$E_T = E_0 \left[\frac{e^{jn\psi/2} e^{-jn\psi/2} - e^{jn\psi/2} e^{jn\psi/2}}{e^{j\psi/2} e^{-j\psi/2} - e^{j\psi/2} e^{j\psi/2}} \right]$$

$$= E_0 \frac{(-e^{jn\psi/2}) [e^{jn\psi/2} - e^{-jn\psi/2}]}{(-e^{j\psi/2}) [e^{j\psi/2} - e^{-j\psi/2}]}$$

$$E_T = E_0 e^{(n-1)j\psi/2} \left[\frac{e^{jn\psi/2} - e^{-jn\psi/2}}{e^{j\psi/2} - e^{-j\psi/2}} \right]$$

Divide and multiply with "2j"

$$= E_0 \left[\frac{e^{jn\psi/2} - e^{-jn\psi/2}}{e^{j\psi/2} - e^{-j\psi/2}} \right] e^{(n-1)j\psi/2}$$

$$E_T = E_0 \left[\frac{\sin n\psi/2}{\sin \psi/2} \right] e^{(n-1)j\psi/2}$$

Let $(n-1)\psi/2 = \psi$

$$E_T = E_0 \left[\frac{\sin n\psi/2}{\sin \psi/2} \right] e^{j\psi} < \psi$$

The reference point is move towards the centre of the array. then $(n-1)\psi/2 = 0$ (or) the term will be eliminated.

$$E_T = E_0 \left[\frac{\sin n\psi/2}{\sin \psi/2} \right] \quad \text{--- (1)}$$

In the above expression, E_0 is the primary pattern.

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Form L-Hospital rule

$$\lim_{\psi \rightarrow 0} E_T = \lim_{\psi \rightarrow 0} E_0 \frac{\frac{d}{d\psi} \sin n\psi/2}{\frac{d}{d\psi} \sin \psi/2}$$

$$E_{T \max} = E_0 \frac{\frac{d}{d\psi} \cos n\psi/2 \quad (n/2)}{\frac{d}{d\psi} \cos \psi/2 \quad (1/2)}$$

$$E_{T \max} = nE_0$$

$$E_{\text{norm}} = \frac{E_T}{E_{T \max}} = \frac{E_0}{nE_0} \frac{\sin n\psi/2}{\sin \psi/2}$$

~~$$\therefore E_{\text{norm}} = \frac{\sin n\psi/2}{n \sin \psi/2}$$~~

Directivity of end fire array :-

Direction of maximum radiation intensity is parallel along the axis.

$(D_{\text{max}})_{\text{directivity}} \Leftarrow$

$$D = \frac{U_{\text{max}}}{U_{\text{avg}}} = \frac{U_{\text{max}}}{U_0}$$

$$U_0 = \frac{1}{4\pi} \int_0^\pi \int_0^{2\pi} |E(\theta, \phi)|^2 \sin \theta \, d\theta \, d\phi \quad \text{--- (1)}$$

~~$$E_n = \frac{\sin n\psi/2}{n \sin \psi/2} \quad \text{--- (2)}$$~~

$$\begin{aligned} \psi &= \beta d \cos \theta + \alpha \\ &= \beta d \cos \theta - \beta d \end{aligned}$$

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$$U_0 = \frac{1}{4\pi} (2\pi) \int_{\theta=0}^{\pi} \left[\frac{\sin n \frac{bd(\cos\theta-1)}{2}}{n \sin \frac{bd(\cos\theta-1)}{2}} \right]^2 \sin\theta d\theta$$

$$(\because \sin \psi/2 = \psi/2)$$

$$U_0 = \frac{1}{4\pi} (2\pi) \int_{\theta=0}^{\pi} \left[\frac{\sin n \frac{bd(\cos\theta-1)}{2}}{n \frac{bd(\cos\theta-1)}{2}} \right]^2 \sin\theta d\theta$$

$$= \frac{1}{2} \int_{\theta=0}^{\pi} \left[\frac{\sin n \frac{bd(\cos\theta-1)}{2}}{n \frac{bd(\cos\theta-1)}{2}} \right]^2 \sin\theta d\theta \quad \text{--- (5)}$$

$$\text{let } \frac{nbd(\cos\theta-1)}{2} = z$$

$$\frac{nbd}{2} (-\sin\theta d\theta) = dz$$

$$\sin\theta d\theta = \frac{-2}{nbd} dz$$

$$\text{if } \theta=0 \Rightarrow \frac{nbd}{2} (\cos 0 - 1) = 0$$

$$\theta = \pi \Rightarrow \frac{nbd}{2} (\cos \pi - 1) = -nbd$$

from (5)

$$= \frac{1}{2} \int_0^{-nbd} \left[\frac{\sin z}{z} \right]^2 \left(\frac{-2}{nbd} \right) dz$$

$$U_0 = \frac{1}{nbd} \int_0^{-nbd} \left(\frac{\sin z}{z} \right)^2 dz$$

$$U_0 = \frac{1}{2nbd} \int_{-nbd}^{nbd} \left(\frac{\sin z}{z} \right)^2 dz$$

$$\left(\because \int_{-\infty}^{\infty} \left(\frac{\sin x}{x} \right)^2 dx = \pi \right)$$

$$U_0 = \frac{\pi}{2nbd}$$

w.k.t $U_{max} = 1$

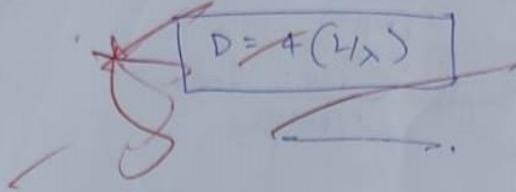
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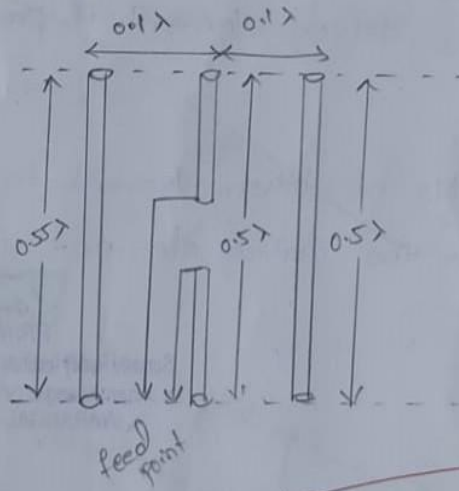
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$$D = \frac{4\pi d}{\lambda}$$

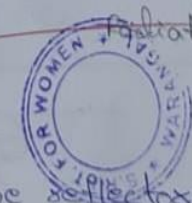


3) Construction and working of Yagi-uda antenna:

1. Yagi-uda antenna is high gain antenna.
2. Yagi-uda antenna basically a uniform linear half-wave antenna of driven element with one active element (feed element) and one or more parasitic elements.



radiation pattern
Yagi-uda antenna



3. Parasitic elements includes the reflectors and more directors arranged in parallel a same antenna.
4. Parasitic elements includes the forward beam of driven element & length is smaller than other elements and it acts as director.

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5. If included the rear end of driven element as reflector and its length larger than other elements.

6. The length of the elements as given below

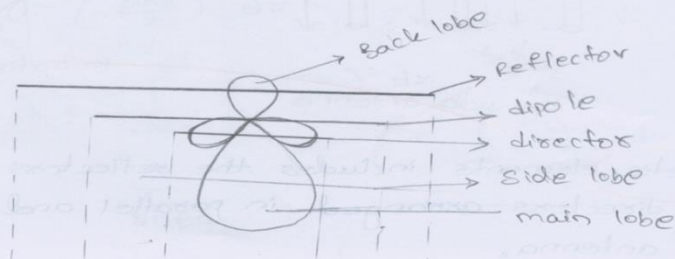
$$\text{Reflector length} = \frac{500 (\text{MHz})}{f (\text{MHz})} \text{ feet}$$

$$\text{Director length} = \frac{455}{f (\text{MHz})} \text{ feet}$$

$$\text{Driven element length} = \frac{475}{f (\text{MHz})} \text{ feet.}$$

Working:-

- The induced voltage (emf) of the reflector and directors decide the current flow in the driven element.
- The phase of current decided by the spacing b/w elements & length of parasitic elements.
- Directors add fields of driven element in the direction of away from the driven element if properly and closely spacing.
- Reflectors add fields of driven element in the direction of towards from the driven element if properly spacing.



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SUMATHI REDDY INSTITUTE OF TECHNOLOGY FOR WOMEN
III B.Tech. II Sem I Mid-Term Examinations, May-2023
ANTENNAS AND WAVE PROPAGATION
Objective Exam

Name: B. Anusha Ht. No. 206Y1A0407

- Divergence of Magnetic field is ____ [b]
a) volume charge density ρ_v b) zero
c) infinite d) dependent on magnetic field vector
- Solid angle subtended by a sphere of radius "r" is ____ Sr. [b]
a) 2π b) 4π c) 3π d) None
- ____ is power radiated per unit solid angle. [b]
a) Beam area b) Radiation Intensity
c) Directivity d) Radiation pattern
- $E\theta$ of loop antenna depends on [d]
a) length of horizontal sides b) breadth of loop
c) magnetic field strength d) length of vertical side
- A ____ array is the one in which elements are fed with a current of equal magnitude and phase. [a]
a) Broadside b) Endfire
c) Parasitic d) Collinear
- In ____ array minor lobes are eliminated. [c]
a) Broadside b) Endfire
c) Binomial d) Collinear
- In antenna measurements, media should be ____ [d]
a) Linear b) Passive
c) isotropic d) All the above
- Directivity of endfire array is given by ____ [b]
a) $2(L/\lambda)$ b) $4(L/\lambda)$ c) $1.789[4(L/\lambda)]$ d) (L/λ)

9. Folded dipole antenna belongs to which type of antenna? [d] 7/2/20
a) Reflector b) Aperture
c) Lens d) Wire

10. Which of the following doesn't apply for flaring? [d]
a) Improve Gain b) Impedance matching
c) Decreases side lobes d) Improve Standing waves

II. Fill in the blanks:

- The power radiated by half-wave dipole is two times that of the radiation by quarter wave monopole.
- Angular beam width between first nulls is called as Beam width between first nulls
- Relation between directivity and beam area ____ $\frac{4\pi}{\Omega_A}$
- According to reciprocity principle, transmitting & receiving patterns are to be similar
- The absolute ____ method of gain measurement is based on Comparison formula.
- The array factor of n-element uniform linear array is $E_{array} = \frac{\sin n\psi/2}{\sin \psi/2}$
- The dipole to which the power is applied directly from the feeder in the Yagi-Uda antenna is called as Half-wave dipole antenna.
- In Horn antennas impedance matching is provided by Curvature
- Direction of pattern maxima $[\theta_{max}]$ of Endfire array is $\cos^{-1} \left[\frac{2 \cos(\alpha/2)}{2nd} \right]$
- The E_θ Component of current element is given by

$$E_\theta = \frac{Im dl \sin \omega t}{4\pi R} \left[\frac{-\cos \omega t}{c^2} + \frac{\cos \omega t}{c^2} + \frac{\sin \omega t}{\omega c^2} \right]$$



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SUMATHI REDDY INSTITUTE OF TECHNOLOGY FOR WOMEN(6Y)-B.Tech List Of Students Applied For RCRV

* RC/RV- RC Stands For Recounting / RV Stands for Revaluation

| S.NO | HTNO | Regulation | Year | Semester | SubjectName(SubjectCode) | Applied For | Amount |
|------|------------|------------|------|----------|--|-------------|--------|
| 1 | 226Y1A0548 | R22 | 1 | 1 | COMPUTER AIDED ENGINEERING GRAPHICS(181AG) | RV | 1000 ✓ |
| 2 | 226Y1A0566 | R22 | 1 | 1 | ENGINEERING CHEMISTRY(181AJ) | RV | 1000 ✓ |
| 3 | 226Y1A66H8 | R22 | 1 | 1 | APPLIED PHYSICS(181AA) | RV | 1000 ✓ |
| 4 | 226Y1A6218 | R22 | 1 | 1 | COMPUTER AIDED ENGINEERING GRAPHICS(181AG) | RV | 1000 ✓ |
| 5 | 226Y1A6606 | R22 | 1 | 1 | APPLIED PHYSICS(181AA) | RV | 1000 ✓ |
| 6 | 226Y1A0461 | R22 | 1 | 1 | APPLIED PHYSICS(181AA) | RV | 1000 ✓ |
| 7 | 226Y1A0572 | R22 | 1 | 1 | MATRICES AND CALCULUS(181AN) | RV | 1000 ✓ |
| 8 | 226Y1A66F3 | R22 | 1 | 1 | PROGRAMMING FOR PROBLEM SOLVING(181AP) | RV | 1000 ✓ |
| 9 | 226Y1A0554 | R22 | 1 | 1 | PROGRAMMING FOR PROBLEM SOLVING(181AP) | RV | 1000 ✓ |
| 10 | 226Y1A0554 | R22 | 1 | 1 | ENGINEERING CHEMISTRY(181AJ) | RV | 1000 ✓ |
| 11 | 226Y1A0596 | R22 | 1 | 1 | MATRICES AND CALCULUS(181AN) | RV | 1000 ✓ |
| 12 | 226Y1A0591 | R22 | 1 | 1 | PROGRAMMING FOR PROBLEM SOLVING(181AP) | RV | 1000 ✓ |
| 13 | 226Y1A0591 | R22 | 1 | 1 | BASIC ELECTRICAL ENGINEERING(181AB) | RV | 1000 ✓ |
| 14 | 226Y1A0583 | R22 | 1 | 1 | MATRICES AND CALCULUS(181AN) | RV | 1000 ✓ |
| 15 | 226Y1A0407 | R22 | 1 | 1 | APPLIED PHYSICS(181AA) | RV | 1000 ✓ |



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**SUMATHI REDDY INSTITUTE OF TECHNOLOGY FOR WOMEN(6Y)-B.Tech
List Of Students Applied For RCRV**

* RC/RV- RC Stands For Recounting / RV Stands for Revaluation

| | | | | | | | | |
|----|------------|-----|---|---|--|----|------|---|
| 16 | 226Y1A0407 | R22 | 1 | 1 | ENGLISH FOR SKILL ENHANCEMENT(181AK) | RV | 1000 | ✓ |
| 17 | 226Y1A0407 | R22 | 1 | 1 | MATRICES AND CALCULUS(181AN) | RV | 1000 | ✓ |
| 18 | 226Y1A66H4 | R22 | 1 | 1 | APPLIED PHYSICS(181AA) | RV | 1000 | ✓ |
| 19 | 226Y1A0547 | R22 | 1 | 1 | ENGINEERING CHEMISTRY(181AJ) | RV | 1000 | ✓ |
| 20 | 226Y1A6704 | R22 | 1 | 1 | PROGRAMMING FOR PROBLEM SOLVING(181AP) | RV | 1000 | ✓ |
| 21 | 226Y1A6704 | R22 | 1 | 1 | MATRICES AND CALCULUS(181AN) | RV | 1000 | ✓ |
| 22 | 226Y1A66E0 | R22 | 1 | 1 | APPLIED PHYSICS(181AA) | RV | 1000 | ✓ |
| 23 | 226Y1A66E0 | R22 | 1 | 1 | MATRICES AND CALCULUS(181AN) | RV | 1000 | ✓ |
| 24 | 226Y1A6698 | R22 | 1 | 1 | PROGRAMMING FOR PROBLEM SOLVING(181AP) | RV | 1000 | ✓ |
| 25 | 226Y1A6698 | R22 | 1 | 1 | APPLIED PHYSICS(181AA) | RV | 1000 | ✓ |
| 26 | 226Y1A0518 | R22 | 1 | 1 | MATRICES AND CALCULUS(181AN) | RV | 1000 | ✓ |
| 27 | 226Y1A6665 | R22 | 1 | 1 | APPLIED PHYSICS(181AA) | RV | 1000 | ✓ |
| 28 | 226Y1A6665 | R22 | 1 | 1 | MATRICES AND CALCULUS(181AN) | RV | 1000 | ✓ |
| 29 | 226Y1A0540 | R22 | 1 | 1 | COMPUTER AIDED ENGINEERING GRAPHICS(181AG) | RV | 1000 | ✓ |
| 30 | 226Y1A0540 | R22 | 1 | 1 | ENGINEERING CHEMISTRY(181AJ) | RV | 1000 | ✓ |
| 31 | 226Y1A6615 | R22 | 1 | 1 | APPLIED PHYSICS(181AA) | RV | 1000 | ✓ |
| 32 | 226Y1A6615 | R22 | 1 | 1 | MATRICES AND CALCULUS(181AN) | RV | 1000 | ✓ |
| 33 | 226Y1A6605 | R22 | 1 | 1 | APPLIED PHYSICS(181AA) | RV | 1000 | ✓ |
| 34 | 156Y1A0592 | R15 | 1 | 1 | MATHEMATICAL METHODS(121AL) | RV | 1000 | ✓ |
| 35 | 156Y1A0592 | R15 | 1 | 1 | COMPUTER PROGRAMMING(121AL) | RV | 1000 | ✓ |
| 36 | 156Y1A0592 | R15 | 1 | 1 | MATHEMATICS(121AL) | RV | 1000 | ✓ |

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I B.Tech. I Sem. RC/RV Result- March 2023

| Sl. No. | HTNO | Sub Code | SUBJECT NAME | INT | EXT | TOT | GR | GP | CR | GRADE STATUS |
|---------|-------------------|--------------|--|-----------|-----------|-----------|-----------|----------|----------|---------------------|
| 1 | 226Y1A0407 | 181AA | APPLIED PHYSICS | 26 | 10 | 36 | F | 0 | 0 | Grade No Change |
| 2 | 226Y1A0407 | 181AK | ENGLISH FOR SKILL ENHANCEMENT | 28 | 19 | 47 | F | 0 | 0 | Grade No Change |
| 3 | 226Y1A0407 | 181AN | MATRICES AND CALCULUS | 26 | 9 | 35 | F | 0 | 0 | Grade No Change |
| 4 | 226Y1A0461 | 181AA | APPLIED PHYSICS | 34 | 9 | 43 | F | 0 | 0 | Grade No Change |
| 5 | 226Y1A0518 | 181AN | MATRICES AND CALCULUS | 27 | 11 | 38 | F | 0 | 0 | Grade No Change |
| 6 | 226Y1A0540 | 181AG | COMPUTER AIDED ENGINEERING GRAPHICS | 31 | 12 | 43 | F | 0 | 0 | Grade No Change |
| 7 | 226Y1A0540 | 181AJ | ENGINEERING CHEMISTRY | 33 | 22 | 55 | B | 6 | 4 | Grade Change |
| 8 | 226Y1A0547 | 181AJ | ENGINEERING CHEMISTRY | 31 | 13 | 44 | F | 0 | 0 | Grade No Change |
| 9 | 226Y1A0548 | 181AG | COMPUTER AIDED ENGINEERING GRAPHICS | 34 | 12 | 46 | F | 0 | 0 | Grade No Change |
| 10 | 226Y1A0554 | 181AJ | ENGINEERING CHEMISTRY | 26 | 21 | 47 | C | 5 | 4 | Grade No Change |
| 11 | 226Y1A0554 | 181AP | PROGRAMMING FOR PROBLEM SOLVING | 28 | 10 | 38 | F | 0 | 0 | Grade No Change |
| 12 | 226Y1A0566 | 181AJ | ENGINEERING CHEMISTRY | 29 | 29 | 58 | B | 6 | 4 | Grade Change |
| 13 | 226Y1A0572 | 181AN | MATRICES AND CALCULUS | 33 | 12 | 45 | F | 0 | 0 | Grade No Change |
| 14 | 226Y1A0583 | 181AN | MATRICES AND CALCULUS | 22 | 9 | 31 | F | 0 | 0 | Grade No Change |
| 15 | 226Y1A0591 | 181AB | BASIC ELECTRICAL ENGINEERING | 25 | 13 | 38 | F | 0 | 0 | Grade No Change |
| 16 | 226Y1A0591 | 181AP | PROGRAMMING FOR PROBLEM SOLVING | 30 | 3 | 33 | F | 0 | 0 | Grade No Change |
| 17 | 226Y1A0596 | 181AN | MATRICES AND CALCULUS | 24 | 11 | 35 | F | 0 | 0 | Grade No Change |
| 18 | 226Y1A6218 | 181AG | COMPUTER AIDED ENGINEERING GRAPHICS | 35 | 12 | 47 | F | 0 | 0 | Grade No Change |
| 19 | 226Y1A6605 | 181AA | APPLIED PHYSICS | 34 | 13 | 47 | F | 0 | 0 | Grade No Change |
| 20 | 226Y1A6606 | 181AA | APPLIED PHYSICS | 34 | 11 | 45 | F | 0 | 0 | Grade No Change |
| 21 | 226Y1A6665 | 181AA | APPLIED PHYSICS | 30 | 12 | 42 | F | 0 | 0 | Grade No Change |
| 22 | 226Y1A6665 | 181AN | MATRICES AND CALCULUS | 27 | 12 | 39 | F | 0 | 0 | Grade No Change |
| 23 | 226Y1A6698 | 181AA | APPLIED PHYSICS | 35 | 13 | 48 | F | 0 | 0 | Grade No Change |
| 24 | 226Y1A6698 | 181AP | PROGRAMMING FOR PROBLEM SOLVING | 27 | 33 | 60 | B+ | 7 | 3 | Grade Change |
| 25 | 226Y1A66E0 | 181AA | APPLIED PHYSICS | 35 | 13 | 48 | F | 0 | 0 | Grade No Change |
| 26 | 226Y1A66E0 | 181AN | MATRICES AND CALCULUS | 28 | 11 | 39 | F | 0 | 0 | Grade No Change |
| 27 | 226Y1A66F3 | 181AP | PROGRAMMING FOR PROBLEM SOLVING | 25 | 13 | 38 | F | 0 | 0 | Grade No Change |
| 28 | 226Y1A66H4 | 181AA | APPLIED PHYSICS | 34 | 13 | 47 | F | 0 | 0 | Grade No Change |
| 29 | 226Y1A66H8 | 181AA | APPLIED PHYSICS | 35 | 28 | 63 | B+ | 7 | 4 | Grade Change |
| 30 | 226Y1A66I5 | 181AA | APPLIED PHYSICS | 33 | 13 | 46 | F | 0 | 0 | Grade No Change |
| 31 | 226Y1A66I5 | 181AN | MATRICES AND CALCULUS | 28 | 13 | 41 | F | 0 | 0 | Grade No Change |
| 32 | 226Y1A6704 | 181AN | MATRICES AND CALCULUS | 21 | 3 | 24 | F | 0 | 0 | Grade No Change |
| 33 | 226Y1A6704 | 181AP | PROGRAMMING FOR PROBLEM SOLVING | 24 | 4 | 28 | F | 0 | 0 | Grade No Change |



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