

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Chathirampudukulam, Chidambaranagar - Vepemkulam Road.
Thatchanallur, Tirunelveli 627 358, Tamil Nadu.



POLICY ON ADVANCED AND SLOW LEARNERS



(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Chathirampudukulam, Chidambaranagar - Vepemkulam Road.
Thatchanallur, Tirunelveli 627 358, Tamil Nadu.



2.2.1 The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

POLICY ON ADVANCED AND SLOW LEARNERS

This policy paper is recognized as the "Policy on Advanced and Slow Learners" of the Thamirabharani Engineering College, Thatcahanallur. Through this policy the college pronounces its assurance to the vital facilitation and prop up to the advanced learners to be excellent achievers and slow learners to be better performing and achieving students in the academic and personal life. The policy also persuades the teaching Departments to develop significant strategies and scientific implementations to benefit both the advanced learners and slow learners in the University education system without forgetting the average performers.

Policy Guidelines for Advanced learners

- 1. Advanced learners are motivated to strive for higher goals. They are provided with additional inputs for better career planning and growth through offering special coaching for higher level competitive examinations
- 2. Motivating them to involve in research projects to inculcate research orientation and higher studies aspirations
- 3. Helping them to participate in group discussions, technical quizzes to develop analytical and problem solving abilities in them and thereby, to improve their presentation skills. Encouraging them to participate in National International Conferences and also to make presentations
- 4. Stirring the advanced learners to make quality publications and creative contributions to the academic as well as to the practical world
- 5. They are given special prizes and special facilities like digital library laptops and special scholarships for making their ideas become visible.
- 6. Startups are offered the advanced learners. Seed money can be offered to advanced learners to make their innovative proposals implemented.
- 7. The mentors give higher goals and also make the advanced learners get higher levels of personality development and stress management trainings.
- 8. They are made the supporters to the average and the slow learners.

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Policy Guidelines for Slow learners

- 1. The slow learners are not labeled as poor achievers or problem students in the class or department so that their motivation and their interest are not negatively affected. This can also make them more stressed, and introvert in the class.
- 2. They should be treated as any other student in the class but they can be provided extra classes for improvement and achievement.
- 3. The Department and individual teachers help the slow learners by giving proper guidance and support to them.
- 4. Organize bridge classes and remedial programmes for them.
- 5. Conduct extra classes for the difficult subjects (based on the previous university results) in the curriculum.
- 6. Special attention is given to the students in the tutorial classes, who are identified as the slow learners.
- 7. Slow learners are specially advised and counseled by a teacher guardian and the subject expert.
- 8. Corrective classes are conducted for the weaker students based on the results of class tests.
- 9. The students are given with training on communication skills, personality development, time management and motivational sessions.
- 10. Design special coaching sessions or tutorial sessions to bridge the gap between the slow learners and advanced learners are provided.
- 11. Academic and personal counseling are given to the slow learners by the tutor, mentor and the counseling cell.

Strategies for the advanced learners:

- The institution organizes Orientation programmes/Induction programmes for freshers in the start of every academic year both at the college level as well as the department level. Bridge Courses are conducted at the department level to lift the students to the standard of higher education.
- The Department of Computer Science of our college selected and focused two specific areas in conducting the Bridge Course - Basics of Computers and Advances in Computer Science.
- The English Department of TEC organizes Orientation / Bridge Course in Basic English Grammar to enable Tamil medium students to cope with the course.

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- The Department of Mathematics organizes Bridge Course to all the first year students are admitted to cope up with the knowledge requirement of the course opted by the student.
- Coaching classes are conducted for Advanced Learners to face competitive exams.
 Students are encouraged to enroll in NPTEL Courses Swayam.
- Coaching is also given in Skill Development Programme like Communicative English,
 Aptitude and Placement.
- Students are encouraged to have an internship with their relevant discipline of studies
 to learn and analyse the current needs of industrial aspects. Based on the industrial
 needs the following core courses and inter-disciplinary courses are conducted to
 encourage our students to learn as advanced learner programme in every semester after
 the working hours.

Strategies adopted for slow learners:

- The institution assesses the learning levels of the students in means of two thingsstudents enrolled in various disciplines are identified as slow and advanced learners based on their performance in Internal Assessment Test and University Examination.
- All the departments draw up the schedule for organising remedial classes for slow learners. This exercise is done in a discreet manner and slow learners are encouraged and stimulated to recognize their shortcomings and register on their own without compulsion.
- Teachers are able to give one to one attention in remedial classes and focus on individual problems in a better manner when compared to a regular classroom.
- Group Study System is also encouraged with the help of the advanced learners.
 Academic and personal counselling is given to the slow learners by mentor. Provision of simple and standard lecture notes/course materials will enable them to perform even better in their academic performance.

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The College provides freedom and facilities to the faculty to develop student-specific, contextual and innovative teaching methodologies using ICT that can maximize the learning outcome. Seminars, problem solving sessions, power point presentations, net based assignments, group discussions, group assignments, quizzes and mini projects are some of methodologies and exercises used to enhance their learning.

Experiential Learning:

Learning by doing is considered one of the best means of arousing intellectual process among the rural, first-generation learners. From 2016 onwards, internship is introduced for all UG programmes. All UG programme students are learning by doing practical in their respective Labs for theory and laboratory concepts. Experiential learning is the process of learning through experience by doing and reflecting. We encourage students to practice various technical and non-technical skills through project development, student seminars, student development programs, workshops, internships, industrial visits and Science day celebration. These activities are planned, conducted and monitored regularly by the faculty to ensure that students are practicing the required skills, reflecting on their experiences and improving their skills.

Participative learning:

In this type of learning, students participate in various activities such as seminar, group discussion, wall papers, projects, and the skill based add on courses. Students are encouraged to participate in activities where they can use their specialized technical or management skills, such as

Regular Quizzes – Quizzes are organized for student participation at intra or inter college level. Seminar Presentation – Students develop technical skills while presenting papers in seminars.

We always strive to enhance the learning experience of learners in class through various interactive and participatory approaches apart from traditional teaching. These approaches aid in creating a feeling of responsibility in learners and makes learning a process of construction of knowledge. In this type of learning, students participate in various activities such as seminar, group discussion, poster presentations, projects, and the skill based add on courses. Students are encouraged to participate in these activities where they can use their specialized technical or management skills. Students actively participate in a myriad of

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academic activities like class room seminars on chosen/ assigned topics, home assignments, power point presentations, model preparation. Our institute consists of various club activities like NSS club, Start up and innovation cell Energy club, Fit India club, English Proficiency club, Robotics Club, Renewable Energy Club, Science club to exhibit their team work in communicating the needs and responsibilities to society in an ethical means

Problem-solving methods

Departments encourage students to acquire and develop problem-solving skills. For this, college organizes expert lectures on various topics, motivate students to join certificate courses, participate in various inter-college and intra-college technical fests and other competitions such as:

- Regular Assignments based on problems
- Mini Project development
- Regular Quizzes
- Case studies Discussion
- Class presentations
- Debates
- Participation in Inter college events
- Faculty handling Tutorial classes
- Students handling Tutorial classes
- Aptitude Training and Internship Program

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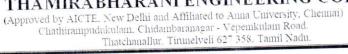
LEARNER

COURSES

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ADVANCED LEARNER COURSE

TECALC005 - ADVANCED REINFORCED CONCRETE DESIGN

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TECALC005 - ADVANCED REINFORCED CONCRETE DESIGN INDEX

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CIRCULAR

Ref:TEC/CIVIL/2022-23/ODD/ALC/05

Date: 04.01.2023

In order to make the student industry ready engineers and to provide advanced quality training to the advanced learners of third and final year of civil engineering department, the course on "TECALC005 - ADVANCED REINFORCED CONCRETE DESIGN" by Mr. S. Rajamuniasamy, AP /Civil is being offered to enhance employability of the students, technical skills and make them more competitive. Course commences from 01.02.2023 to 03.03.2023. Students are instructed to make use of the opportunity. Advanced learners of third and final year of civil engineering are eligible for this course.

COURSE INSTRUCTOR

HOD/CE

PRINCIPAL

To be read

All civil class room

| S. No | Class | Sign |
|-------|----------|------|
| 1 | II year | |
| 2 | III year | |
| 3 | IV year | |

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TECALC005 - ADVANCED REINFORCED CONCRETE DESIGN **SYLLABUS**

OBJECTIVE

To make the students be familiar with the limit state design of RCC beams and columns and to design special structures such as Deep beams, Corbels, Deep beams, and Grid floors.

DESIGN OF SPECIAL RC ELEMENTS

Design of slender columns - Design of RC walls. Strut and tie method of analysis for corbels and deep beams, Design of corbels, Deep-beams and grid floors.

FLAT SLABS AND YIELD LINE BASED DESIGN

Design of flat slabs and flat plates according to IS method - Check for shear - Design of spandrel beams - Yield line theory and Hillerborg's strip method of design of slabs.

OUTCOME

On completion of this course the students will have the confidence to design various concrete structures and structural elements by limit state design and detail the same for ductility as per codal requirements.

THEORY: 30 PERIODS

ASSESSMENT: 2 PERIODS

TOTAL: 32 PERIODS

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TECALC005 - ADVANCED REINFORCED CONCRETE DESIGN

LESSON PLAN & SCHEDULE

| S.NO | DATE | TOPIC | No. of Hours |
|------|------------|--|-----------------|
| 1. | 01.02.2023 | Design of special RC elements - Introduction | 2 |
| 2. | 02.02.2023 | Design of slender columns | 2 |
| 3. | 03.02.2023 | Design of RC walls | 2 |
| 4. | 06.02.2023 | Strut and tie method of analysis for corbels and deep beams | 2 |
| 5. | 14.02.2023 | Design of corbels | 2 |
| 6. | 16.02.2023 | Design of corbels | 2 |
| 7. | 17.02.2023 | Deep-beams | 2 |
| 8. | 20.02.2023 | Grid floors. | 4 |
| 9. | 22.02.2023 | Flat slabs and yield line based design- Introduction | 2 |
| 10. | 23.02.2023 | Design of flat slabs and flat plates according to IS method | 2 |
| 11. | 24.02.2023 | Check for shear | 2 |
| 12. | 27.02.2023 | Design of spandrel beams | 2 |
| 13. | 28.02.2023 | Design of spandrel beams | 2 |
| 14. | 01.03.2023 | Yield line theory and Hillerborg's strip method of design of slabs | 2 |
| 15. | 03.03.2023 | Assessment | 2 |
| | | Total Hours | 32 |

COURSE INSTRUCTOR

HOD/CE

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DEPARTMENT OF CIVIL ENGINEERING ATTENDANCE

| 1. | SLN SL | Register Number | Name | | | | | | | ATTENDANCE | ANCE | Date | 3 | 3 | 3 | | | • | 3 | 3 |
|--|--------|-----------------|-----------------------|-------|------|--------|---------|--------|---------|------------|--------|---------|---------|---------|---------|---|------|-------------|--------------------|---------------------------------|
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| 953121105022 I.SILVA BIJARAHEN | - | 953121103001 | D AATHILAKSHMI | _ | _ | _ | , | | ٦ | 7 | | 1 | - | \ | 1 | | 7 | 1 | ' ' ' | |
| 953120103023 S.ILLVA BIADATHII | 2 | 953121103010 | S DHANALAKSMI | - | 1 | \ | | _ | | 1 | / | 1 | / | 1 | - | | 1 | ' A | ' A ' | / A / / S. Dhapalaushim |
| 953120103004 CLARIN GNANA TRIZATIS 953120103006 ESANKKRHITHUM 1 | ω | 953121103022 | I. SELVA BHARATHI | , | _ | _ | | | | 1 |) | 1 | 1 | 1 | 1 | | 1 | ' ' | , , | 1 , 1 |
| 953120103008 ESAKKINUTHUM // (// // // // // // // // // // // / | 4- | 953120103004 | CLARIN GNANA TRIZAH S | D | - | _ | | 1 | | / | - | 1 | 1 | 1 | _ | | | , , | , , , | , / / / S. Clarin Grana Trisal. |
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| 953120103012 KIRITHIKA S 953120103014 MAHAPRIYA M 953120103016 MAKRISHAYI S 953120103016 RAMALAKSHMI R 95312010301 ABHIRAMI M. S 95312010300 DEIVAKANI M 953119103006 KANAGARAJ J 953119103011 SUSMITHA P 1 | × | 953120103011 | KARTHIKEYAN M | ~ | ` | | | _ | | 1 | 1 | / | 1 | 1 | | | 7 | ' ' ' | ' ' ' | M. Karthikan |
| 955120103014 MAHARIAYAM / / / / / / / / / / / / / / / / / / / | ٥ | 953120103012 | KIRUTHIKA S | _ | _ | ~ | 77 | | | 1 | 1 | 1 | 1 | - | | - | 1 1 | 1 1 1 | 1 1 1 | 1 1 1 1 1 |
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CERTIFICATE COURSE FEEDBACK FORM

| COURSE CODE & NAME | : TECALOO5-AD | VANCED REINFORCED | CONCRETE DESIGN |
|--|---|----------------------------|-----------------|
| DEPARTMENT | : CIVIL ENGINEER | | |
| NAME OF THE STUDENT | : DEIVAKANI. M | | |
| REG. NO. | : 953119103003 | ACADEMIC YEAR: | 2022-2023 |
| YEAR | : iv year | | 8 th |
| THE DESIGN OF THE COUR | | | |
| A. Were objectives of the course of B. The course contents met with y 1. Strongly disagree 2. Disag C. The lecture sequence was well 1. Strongly disagree 2. Disagr D. The level of the course was 1. Too Low 2. Low | your expectations ree 3. Neither agree nor di planned ree 3. Neither agree nor di | sagree 4. Agree 5. Strongl | y agree 4 |
| E. The course exposed you to nev | | 111.81 | 4 |
| Strongly disagree 2. Disag | | sagree 4. Agree 5.Strongl | y agree 5 |
| THE CONDUCT OF COURSE | \mathbf{c} | | |
| A. The lectures were clear and ea1. Strongly disagree 2. DisagB. The teaching aids were effective | ree 3. Neither agree nor dively used | | |
| Strongly disagree 2. Disag The course material handed or | | sagree 4. Agree 5. Strong. | ly agree 5 |
| Strongly disagree 2. Disag The instructors encouraged int | teraction and were helpful | | 5 |
| Strongly disagree 2. Disag Were objectives of the course | | sagree 4. Agree 5.Strongl | y agree 5 |
| Please comment on the strengths of | of the course and the way it | was conducted. (Optional) | |
| Please comment on the weaknesse | es of the course and the way | it was conducted. (Optiona | al) |
| Please give suggestions for the im | nprovement of the course. (Course) | Optional) | |
| | | ^ / | |

THAMIRABHARANI ENGG. COLLEGE, Tirunelveli. Tamilnadu-627 358 SIGNATURE OF THE STUDENT



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CERTIFICATE COURSE FEEDBACK FORM

| COURSE CODE & NAME | : TECALIC 005 & Advanced : CIVIL Engineering : Selva Bharathi. L | Reinforced Concu | ete Pes |
|-------------------------------------|--|------------------------------|---------|
| DEPARTMENT | : LIVIL Dynasty | | |
| NAME OF THE STUDENT | : Selva Bhararm. L | CADEMIC YEAR: 2023 | 2-202 |
| REG. NO. | | | |
| YEAR | : 2023-II Year SI | EM : iV | |
| THE DESIGN OF THE COUR | | | |
| A. Were objectives of the course of | clear to you? Y / N | | |
| B. The course contents met with | your expectations | 5 Ct 1 | |
| | ree 3. Neither agree nor disagree | 4. Agree 5. Strongly agree | 5 |
| C. The lecture sequence was well | planned | 4 Agrae 5 Strongly agree | |
| | ee 3. Neither agree nor disagree | 4. Agree 5.Strongry agree | 5 |
| D. The level of the course was | 3. Moderate 4. High | 5 Very high | |
| | | 1 5. Very mgn | 4 |
| E. The course exposed you to nev | | 5 Grand 1 | |
| 1. Strongly disagree 2. Disag | ree 3. Neither agree nor disagree | e 4. Agree 5. Strongly agree | 4 |
| THE CONDUCT OF COURSI | E | | |
| A. The lectures were clear and ea | sy to understand | | |
| 1. Strongly disagree 2. Disag | ree 3. Neither agree nor disagree | e 4. Agree 5. Strongly agree | 5 |
| B. The teaching aids were effecti | | | |
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| C. The course material handed or | | 4 A aug 5 Strongly agree | |
| | gree 3. Neither agree nor disagree | e 4. Agree 5.Strongly agree | 5 |
| D. The instructors encouraged in | | a A Agree 5 Strongly agree | |
| | gree 3. Neither agree nor disagree | e 4. Agree 3.5trollgry agree | 4 |
| E. Were objectives of the course | realized? 1 7 / N | | |
| Please comment on the strengths | of the course and the way it was c | onducted. (Optional) | |
| Please comment on the weakness | es of the course and the way it wa | s conducted. (Optional) | |
| Please give suggestions for the in | nprovement of the course. (Option | nal) | |
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CERTIFICATE COURSE FEEDBACK FORM

| COURSE CODE & NAME DEPARTMENT NAME OF THE STUDENT REG. NO. YEAR | : CIVIL : KANAGARAJIJ : 953119103006 ACADEMIC YEAR: 202 | ETE DESIGN 2-2023 |
|---|--|----------------------|
| | : 2023 FINAL SEM : VIII | |
| THE DESIGN OF THE COUR | | |
| C. The lecture sequence was well1. Strongly disagree 2. Disagr | your expectations ree 3. Neither agree nor disagree 4. Agree 5. Strongly agree | 4 |
| D. The level of the course was 1. Too Low 2. Low | 3. Moderate 4. High 5. Very high | pi |
| E. The course exposed you to nev | | 5 |
| | gree 3. Neither agree nor disagree 4. Agree 5. Strongly agree | 5 |
| THE CONDUCT OF COURSE | \mathbf{E} | |
| B. The teaching aids were effecti | gree 3. Neither agree nor disagree 4. Agree 5. Strongly agree | -1 |
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| D. The instructors encouraged in1. Strongly disagree 2. DisagE. Were objectives of the course | gree 3. Neither agree nor disagree 4. Agree 5. Strongly agree | 4 |
| g | | |
| Please comment on the strengths | of the course and the way it was conducted. (Optional) | |
| Please comment on the weakness | es of the course and the way it was conducted. (Optional) | |
| Please give suggestions for the in | nprovement of the course. (Optional) | |
| 0- 1.7 | J. Philid | |

SIGNATURE OF THE STUDENT

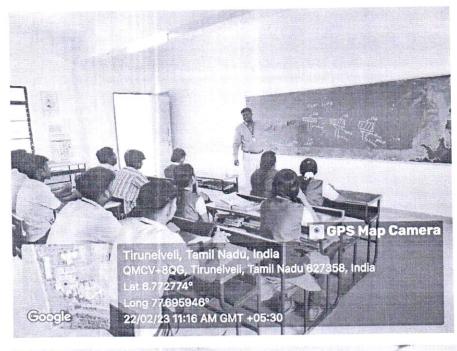
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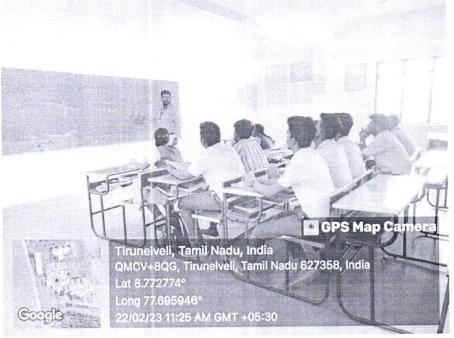
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Course delivery

Assignment

- 1. Explain in details the design procedure for slender column.
- 2. Explain in details the Hillerborg's strip method of design of slabs.

| A | | 4 |
|---------|----|---|
| Assessm | on | t |
| | | ı |

Total Marks: 50

Part- A (10*1=10)

- 1. Failure of R.C.C beam due to shear can only occur on account of
 - a) Diagonal Compression
 - b) Diagonal Tension
 - c) Web Compression
 - d) None of above
- 2. Nominal Shear stress tv at section does not exceed permissible shear stress to
 - a) Minimum shear reinforcement is still provided
 - b) Shear reinforcement is provided to resist nominal shear stress
 - c) No shear reinforcement is provided
 - d) Shear reinforcement is provided for different of two
- 3. The diameter of longitudinal bars of a column should never be less than ____

 - a) 6 mm
 - b) 8 mm
 - c) 10 mm
 - d) 12 mm
- 4. Thickened part of a flat slab over its supporting column, is technically known as
 - a) drop panel
 - b) capital
 - c) column head
 - d) cannot be determined
- 5. The minimum cube strength of concrete used for a prestressed member, is
 - a) 50 kg/cm²
 - b) 150 kg/cm²
 - e) 350 kg/cm2
 - d) 100 kg/cm²
- **6.** The minimum cube strength of concrete used for a prestressed member, is _____
 - a) 0.8%
 - b) 0.12%

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- c) 0.15%
- d) 0.2%
- 7. The lap length of reinforcement in compression should not be less than
 - a) 30 dia
 - b) 24 dia
 - c) 20 dia
 - d) 02 dia
- 8. Which of the following is correct criteria to be considered while designing?
 - a) Structure should be aesthetically pleasing but structurally unsafe
 - b) Structure should be cheap in cost even though it may be structurally unsafe
 - c) Structure should be structurally safe but less durable
 - d) Structure should be adequately safe, should have adequate serviceability
- 9. The structure is statically indeterminate when
 - a) static equilibrium equations are insufficient for determining internal forces and reactions on that structure
 - b) static equilibrium equations are sufficient for determining internal forces and reactions on that structure
 - c) structure is economically viable
 - d) structure is environment friendly
- 10. Which method is mainly adopted for design of steel structures as per IS code?
 - a) Limit State Method
 - b) Working Stress Method
 - c) Ultimate Load Method
 - d) Earthquake Load Method

Part- B (20*2=40)

- 11. The moisture content of the aggregate shall not exceed from ______
 - a) .1% .5%
 - b) 1% 55
 - c) 10% 50%
 - d) 15%
- **12.** Which one is not the polymeric resin?
 - a) Polyester resin
 - b) Epoxy resin
 - c) Vinyl ester resin
 - d) Sulphates
- **13.** Higher resin dosage is recommended when using
 - a) Coarse aggregate
 - b) Fine aggregates
 - c) All in one aggregates
 - d) More cement
- **14.** Steel fibers helps in the enhancement of its properties.
 - a) True
 - b) False

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| 15. | The addition of glass fibers are in the range of |
|-----|--|
| | a) 0-6% |
| | b) 10% |
| | c) 15-20%. |
| | d) 20%-25% |
| 16. | . Concrete is not recommended to be placed at a temperature below°C. |
| | a) 2 |
| | b) 3 |
| | c) 4 |
| | d) 5 |
| 17 | . IS: 7861 part-2 deals with |
| | a) Hot weathering concrete |
| | b) Cold weathering concrete |
| | c) Air entertained concrete |
| | d) OPC |
| 18 | . Why the time period for removal of form work has to be increased. |
| | a) The development of strength of concrete is retarded compared with |
| | development at normal temperature |
| | b) The development of strength of concrete is accelerate compared with development |
| | at normal temperature |
| | c) The development of strength of concrete is advanced compared with development |
| | at normal temperature |
| | d) The development of strength of concrete is precocious compared with development |
| | at normal temperature |
| 19 | . If concrete is exposed to repeated freezing and thawing after the final set, the final |
| | qualities of the concrete may also be |
| | a) Impair |
| | b) Aid |
| | c) Improve |
| | d) Extend |
| 20 | 1. Large temperature differentials within the concrete member may promote |
| | a) Elastic shrinkage |
| | b) Cracking |
| | c) High workability |
| | d) Good strength |
| 2 | 1. When the concrete in fresh stage is exposed to freeze before certain pre-hardening |
| 4 | period, compressive strength may get |
| | a) Increased to 50% |
| | b) Decreased to 50% |
| | c) Increased to 25% |
| | d) Decreased to 25% |

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| 22. | . What could be the possible answer among the following for compressive strength of high strength concrete? |
|-----|---|
| | a) 10MPa |
| | b) 20MPa |
| | c) 30MPa |
| | d) 40MPa |
| 23. | What could be the possible answer among the following for water cement ratio for |
| | high strength concrete? |
| | a) .5 |
| | b) .45 |
| | c) .4 |
| | d) .35 |
| 24. | . Due to low w/e ratio |
| | a) It doesn't cause any problems |
| | b) It causes problems |
| | c) Workability is easy |
| | d) Strength is more |
| 25 | Which type of aggregates are used to produce 70MPa compressive strength? |
| | a) All in one |
| | b) Fine |
| | c) Coarse |
| | d) Flaky |
| 26 | . Maximum size of aggregates are used to produce 70MPa compressive strength is |
| | |
| | a) 20-30 mm |
| | b) 10-20 mm |
| | e) 30-40 mm |
| | d) 40-50 mm |
| 27 | . Maximum size of aggregates are used to produce 100MPa compressive strength is |
| | |
| | a) 20-30 mm |
| | b) 10-20 mm |
| | c) 30-40 mm |
| | d) 40-50 mm |
| 28 | 3. In bridges, HSC is used. |
| | a) True |
| | b) False |
| 29 | 2. 8. Use of HSC in column |
| | a) It increase the size of the column |
| | b) It decrease the size of the column |
| | c) Doesn't affect |
| | d) Decrease the strength |
| 30 | O. Use of HSC in column |
| | a) Decrease the no of steel required in the same column |
| | b) Increase the no of steel required in the same column |
| | c) Decrease the no of steel required in the different column |
| | d) Increase the no of steel required in the different column |
| | |

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Assessment

Total Marks: 50

Part- A (10*1=10)

| | | 16 |
|------|---|------|
| 1. | Failure of R.C.C beam due to shear can only occur on account of | 148 |
| | Diagonal Compression | 1 |
| | b) Diagonal Tension | 151 |
| | c) Web Compression | |
| | d) None of above | |
| 2 | Nominal Shear stress tv at section does not exceed permissible shear stress to | 1/2 |
| ۷. | Minimum shear reinforcement is still provided | (3/3 |
| | b) Shear reinforcement is provided to resist nominal shear stress | |
| | c) No shear reinforcement is provided | |
| | d) Shear reinforcement is provided for different of two | |
| 2 | The diameter of longitudinal bars of a column should never be less than | |
| Э. | | |
| | a) 6 mm | |
| | b) 8 mm | |
| | c) 10 mm | |
| 1 | Thickened part of a flat slab over its supporting column, is technically known as | |
| 4. | a) drop pane! | |
| | b) capital | |
| | c) column head | |
| | d) cannot be determined | |
| = | The minimum cube strength of concrete used for a prestressed member, is | |
| ٥. | a) 50 kg/cm2 | |
| | b) 150 kg/cm2 | |
| | 7350 kg/cm2 | |
| | d) 100 kg/cm2 | |
| 6 | The minimum cube strength of concrete used for a prestressed member, is | |
| 0. | a) 0.8% | |
| | b) 0.12% | |
| | c) 0.15% | |
| | ₩ 0.2% | |
| 7. | The lap length of reinforcement in compression should not be less than | |
| 50.5 | a) 30 dia | |
| | งชีว 24 dia | |
| | c) 20 dia | |
| | d) 02 dia | |
| 8. | Which of the following is correct criteria to be considered while designing? | |
| | a) Structure should be aesthetically pleasing but structurally unsafe | |
| | b) Structure should be cheap in cost even though it may be structurally unsafe | |
| | c) Structure should be structurally safe but less durable | |
| | Structure should be adequately safe, should have adequate serviceability | |
| | , and the same of | |

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| The structure is statically indeterminate when ferees and reactions on | |
|---|----|
| static equilibrium equations are insufficient for determining internal forces and reactions on | |
| that atmost upo | |
| b) static equilibrium equations are sufficient for determining internal forces and reactions on the | it |
| structure | |
| c) structure is economically viable | |
| d) structure is environment friendly | |
| 10. Which method is mainly adopted for design of steel structures as per IS code? | |
| Limit State Method | |
| b) Working Stress Method | |
| c) Ultimate Load Method | |
| d) Earthquake Load Method | |
| Part- B (20*2= 40) | |
| 11. The moisture content of the aggregate shall not exceed from | |
| 2.1%5% | |
| b) 1% – 55 | |
| c) 10% – 50% | |
| d) 15% | |
| 12. Which one is not the polymeric resin? | |
| a) Polyester resin | |
| DEpoxy resin | |
| c) Vinyl ester resin | |
| d) Sulphates | |
| 13. Higher resin dosage is recommended when using | |
| a) Coarse aggregate | |
| Diffine aggregates | |
| c) All in one aggregates | |
| d) More cement | |
| 14. Steel fibers helps in the enhancement of its properties. | |
| True | |
| b) False | |
| 15. The addition of glass fibers are in the range of | |
| 13. The addition of glass freely are in the target | |
| b) 10% | |
| c) 15-20% | |
| d) 20%-25% | |
| 16. Concrete is not recommended to be placed at a temperature below°C. | |
| | |
| a) 2 b) 3 | |
| c) 4 | |
| €) 4 €D 5 | |
| | |
| | |

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| 17. | IS: 7861 part-2 deals with |
|-----|---|
| | a) Hot weathering concrete |
| | Cold weathering concrete |
| | c) Air entertained concrete |
| | d) OPC |
| 18 | Why the time period for removal of form work has to be increased. |
| 10. | The development of strength of concrete is retarded compared with development at normal |
| | temperature |
| | b) The development of strength of concrete is accelerate compared with development at normal |
| | temperature |
| | c) The development of strength of concrete is advanced compared with development at normal |
| | temperature |
| | d) The development of strength of concrete is precocious compared with development at normal |
| | temperature |
| 19. | If concrete is exposed to repeated freezing and thawing after the final set, the final qualities of the |
| | concrete may also be |
| | Mmpair |
| | b) Aid |
| | c) Improve |
| | d) Extend |
| 20. | Large temperature differentials within the concrete member may promote |
| | a) Elastic shrinkage |
| | b) Cracking |
| | c) High workability |
| | d) Good strength |
| 21 | When the concrete in fresh stage is exposed to freeze before certain pre-hardening period, |
| 41 | compressive strength may get |
| | a) Increased to 50% |
| | Decreased to 50% |
| | c) Increased to 25% |
| 22 | d) Decreased to 25% What applied by the possible agreement the Cilingian for a great after the Chink |
| 22. | . What could be the possible answer among the following for compressive strength of high strength concrete? |
| | a) 10MPa |
| | b) 20MPa |
| | (a) 30MPa |
| | d) 40MPa |
| 23. | What could be the possible answer among the following for water cement ratio for high strength |
| | concrete? a) .5 |
| | b) .45 |
| | c) .4 |
| | √n).35 |
| | |

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| 24. | Due to low w/c ratio |
|-----|---|
| | a) It doesn't cause any problems |
| | It causes problems |
| | c) Workability is easy |
| | d) Strength is more |
| 25. | Which type of aggregates are used to produce 70MPa compressive strength? |
| | a) All in one |
| | b) Fine |
| | Coarse Coarse |
| | d) Flaky |
| 26. | Maximum size of aggregates are used to produce 70MPa compressive strength is |
| | ₩20-30 mm |
| | b) 10-20 mm |
| | c) 30-40 mm |
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| 27 | . Maximum size of aggregates are used to produce 100MPa compressive strength is |
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| 28 | In bridges. HSC is used. |
| | True |
| | b) False |
| 20 | . 8. Use of HSC in column |
| 49 | a) It increase the size of the column |
| | It decrease the size of the column |
| | c) Doesn't affect |
| | d) Decrease the strength |
| 20 | |
| 30 | • Use of HSC in column Decrease the no of steel required in the same column |
| | |
| | |
| | |
| | b) Increase the no of steel required in the same columnc) Decrease the no of steel required in the different columnd) Increase the no of steel required in the different column |

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Assessment

Total Marks: 50

| Part- A | (10*1= | = 10) |
|---------|--------|-------|
|---------|--------|-------|

| 1. | Failure of R.C.C beam due to shear can only occur on account of | (50) |
|----|---|-------|
| | Diagonal Compression | |
| | b) Diagonal Tension | 7 |
| | c) Web Compression | 1 |
| | d) None of above | (3/3/ |
| 2. | Nominal Shear stress tv at section does not exceed permissible shear stress tc | |
| | a) Minimum shear reinforcement is still provided | |
| | b) Shear reinforcement is provided to resist nominal shear stress | |
| | c) No shear reinforcement is provided | |
| | d) Shear reinforcement is provided for different of two | |
| 3. | | |
| | a) 6 mm | |
| | 8 mm | |
| | c) 10 mm | |
| | d) 12 mm | |
| 4. | Thickened part of a flat slab over its supporting column, is technically known as | |
| | a drop panel | |
| | b) capital | |
| | c) column head | |
| | d) cannot be determined | |
| 5. | The minimum cube strength of concrete used for a prestressed member, is | _ |
| | a) 50 kg/cm2 | |
| | b) 150 kg/cm2 | |
| | cy 350 kg/cm2 | |
| - | d) 100 kg/cm2 | |
| 6. | The minimum cube strength of concrete used for a prestressed member, is | _ |
| | a) 0.8% | |
| | b) 0.12% c) 0.15% | |
| | d √ 0.2% | |
| 7 | The lap length of reinforcement in compression should not be less than | |
| 1. | a) 30 dia | |
| | 24 dia | |
| | c) 20 dia | |
| | d) 02 dia | |
| 8 | Which of the following is correct criteria to be considered while designing? | |
| 0. | a) Structure should be aesthetically pleasing but structurally unsafe | |
| | b) Structure should be cheap in cost even though it may be structurally unsafe | |
| | c) Structure should be structurally safe but less durable | |
| | Structure should be adequately safe, should have adequate serviceability | |

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| 9. | The structure is statically indeterminate when |
|-----|--|
| | a) static equilibrium equations are insufficient for determining internal forces and reactions on |
| | that structure |
| | b) static equilibrium equations are sufficient for determining internal forces and reactions on that |
| | structure |
| | c) structure is economically viable d) structure is environment friendly |
| 10 | |
| 10. | Which method is mainly adopted for design of steel structures as per IS code? ayLimit State Method |
| | b) Working Stress Method |
| | c) Ultimate Load Method |
| | d) Earthquake Load Method |
| | |
| | Part- B (20*2= 40) |
| 11. | The moisture content of the aggregate shall not exceed from |
| | a) .1%5% |
| | b) 1% – 55 |
| | √ 10% − 50% |
| | d) 15% |
| 12 | Which one is not the polymeric resin? |
| | a) Polyester resin |
| | b) Epoxy resin |
| | c) Vinyl ester resin |
| | d Sulphates |
| 13 | . Higher resin dosage is recommended when using |
| | a) Çoarse aggregate |
| | by Fine aggregates |
| | c) All in one aggregates |
| | d) More cement |
| 14 | . Steel fibers helps in the enhancement of its properties. |
| | True |
| | b) False |
| 15 | The addition of glass fibers are in the range of |
| | 2 0-6% |
| | b) 10% |
| * | c) 15-20% |
| | d) 20%-25% |
| 16 | Concrete is not recommended to be placed at a temperature below °C. |
| | a) 2 |
| | b) 3 |
| | |
| | c) 4 d) 5 |
| | |

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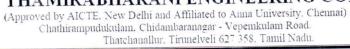
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| | The development of strength of concrete is retarded compared with development at normal temperature |
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| | c) The development of strength of concrete is advanced compared with development at normal |
| | temperature d) The development of atmosphic formula of a month of |
| | d) The development of strength of concrete is precocious compared with development at normal temperature |
| 19 | If concrete is exposed to repeated freezing and thawing after the final set, the final qualities of the concrete may also be |
| | a Impair |
| | b) Aid |
| | c) Improve |
| | d) Extend |
| 20. | Large temperature differentials within the concrete member may promote a) Elastic shrinkage by Cracking c) High workability d) Good strength |
| | When the concrete in fresh stage is exposed to freeze before certain pre-hardening period, compressive strength may get |
| 1950 | . What could be the possible answer among the following for compressive strength of high strength concrete? a) 10MPa b) 20MPa c) 30MPa d 40MPa |
| | What could be the possible answer among the following for water cement ratio for high strength concrete? a) .5 b) .45 c) .4 |
| | d.V.35 |

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| 24. | Due to low w/c ratio |
|-----|--|
| | a) It doesn't cause any problems |
| | by t causes problems |
| | c) Workability is easy |
| | d) Strength is more |
| 25. | Which type of aggregates are used to produce 70MPa compressive strength? |
| | a) All in one |
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| | c) Coarse |
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| 26 | . Maximum size of aggregates are used to produce 70MPa compressive strength is |
| 20 | aV20-30 mm |
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| | c) 30-40 mm |
| | d) 40-50 mm |
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| 21 | a) 20-30 mm |
| | b√10-20 mm |
| | c) 30-40 mm |
| | d) 40-50 mm |
| 28 | In bridges, HSC is used. |
| 40 | |
| | a√True |
| | b) False |
| 29 | . 8. Use of HSC in column |
| | a) It increase the size of the column |
| | by t decrease the size of the column |
| | c) Doesn't affect |
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| 30 | . Use of HSC in column |
| | a) Decrease the no of steel required in the same column |
| | b) Increase the no of steel required in the same column |
| | c) Decrease the no of steel required in the different column |
| | d) Increase the no of steel required in the different column |

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Assessment

Total Marks: 50

| Part- A (| (10*1= | 10) |
|-----------|--------|-----|
|-----------|--------|-----|

| Failure of R.C.C beam due to shear can only occur on account of a) Diagonal Compression Diagonal Tension Web Compression None of above Nominal Shear stress tv at section does not exceed permissible shear stress to a) Minimum shear reinforcement is still provided | 3 |
|--|----|
| b) Diagonal Tension c) Web Compression d) None of above 2. Nominal Shear stress tv at section does not exceed permissible shear stress tc a) Minimum shear reinforcement is still provided | 3) |
| c) Web Compression d) None of above 2. Nominal Shear stress tv at section does not exceed permissible shear stress tc a) Minimum shear reinforcement is still provided | 3) |
| d) None of above 2. Nominal Shear stress tv at section does not exceed permissible shear stress tc a) Minimum shear reinforcement is still provided | |
| 2. Nominal Shear stress to at section does not exceed permissible shear stress to Minimum shear reinforcement is still provided | 3) |
| Minimum shear reinforcement is still provided | 3) |
| | 3/ |
| | |
| b) Shear reinforcement is provided to resist nominal shear stress | |
| c) No shear reinforcement is provided | |
| d) Shear reinforcement is provided for different of two | |
| 3. The diameter of longitudinal bars of a column should never be less than | |
| a) 6 mm | |
| b) 8 mm | |
| c) 10 mm | |
| #112 mm | |
| 4. Thickened part of a flat slab over its supporting column, is technically known as | |
| a) arop panel | |
| b) capital | |
| c) column head | |
| d) cannot be determined | |
| 5. The minimum cube strength of concrete used for a prestressed member, is | |
| a) 50 kg/cm2 | |
| b) 150 kg/cm2 | |
| 97350 kg/cm2 | |
| d) 100 kg/cm2 | |
| 6. The minimum cube strength of concrete used for a prestressed member, is | |
| a) 0.8% | |
| b) 0.12% | |
| c) 0.15% | |
| 0.2% | |
| 7. The lap length of reinforcement in compression should not be less than | |
| a) 30 dia | |
| 2 4 dia | |
| c) 20 dia | |
| d) 02 dia | |
| 8. Which of the following is correct criteria to be considered while designing? | |
| a) Structure should be aesthetically pleasing but structurally unsafe | |
| b) Structure should be cheap in cost even though it may be structurally unsafe | |
| c) Structure should be structurally safe but less durable | |
| d) Structure should be adequately safe, should have adequate serviceability | |





9. The structure is statically indeterminate when_



| | atic equilibrium equations are insufficient for determining internal forces and reactions of |
|-----|---|
| tl | nat structure |
| |) static equilibrium equations are sufficient for determining internal forces and reactions on that |
| | tructure |
| |) structure is economically viable |
| d | structure is environment friendly |
| | Which method is mainly adopted for design of steel structures as per IS code? |
| | Minit State Method |
| |) Working Stress Method |
| |) Ultimate Load Method |
| (| B) Earthquake Load Method |
| | Part- B (20*2= 40) |
| 11. | The moisture content of the aggregate shall not exceed from |
| | 171%5% |
| ł | a) 1% – 55 |
| (| 2) 10% – 50% |
| (| d) 15% |
| 12. | Which one is not the polymeric resin? |
| 4 | a) Polyester resin |
| | Epoxy resin |
| | c) Vinyl ester resin |
| | d) Sulphates |
| 13. | Higher resin dosage is recommended when using |
| | a) Coarse aggregate |
| | Fine aggregates |
| | c) All in one aggregates |
| | d) More cement |
| 14. | Steel fibers helps in the enhancement of its properties. |
| | True |
| | b) False |
| 15. | The addition of glass fibers are in the range of |
| | a) 19-6% |
| | b) 10% |
| | c) 15-20% |
| | d) 20%-25% |
| 16. | Concrete is not recommended to be placed at a temperature below°C. |
| | a) 2 |
| | 40 37 |
| | c) 4 |
| | d) 5 |
| | . 5 |

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| 1 | 7. 18: 7861 part-2 deals with |
|------|--|
| | a) Hot weathering concrete |
| | Di Cold weathering concrete |
| | c) Air entertained concrete |
| | d) OPC |
| 1 | 8. Why the time period for removal of form work has to be increased. |
| | a) The development of strength of congrets is retained. |
| | a) The development of strength of concrete is retarded compared with development at normal temperature |
| | |
| | b) The development of strength of concrete is accelerate compared with development at normal temperature |
| | |
| | c) The development of strength of concrete is advanced compared with development at normal temperature |
| | |
| | d) The development of strength of concrete is precocious compared with development at normal temperature |
| 10 | |
| | If concrete is exposed to repeated freezing and thawing after the final set, the final qualities of the concrete may also be |
| | a) impair |
| | b) Aid |
| | c) Improve |
| | d) Extend |
| 20 | |
| 20 | Large temperature differentials within the concrete member may promote a) Elastic shrinkage |
| | b)Cracking |
| | c) High workability |
| | d) Good strength |
| 2 01 | |
| 21 | . When the concrete in fresh stage is exposed to freeze before certain pre-hardening period, |
| | compressive strength may get |
| | a) Increased to 50% Decreased to 50% |
| | c) Increased to 25% |
| | d) Decreased to 25% |
| 22. | . What could be the possible answer among the following for compressive strength of high |
| | or engar concrete. |
| | a) 10MPa |
| | b) 20MPa |
| | c) 30MPa |
| | |
| | What could be the possible answer among the following for water cement ratio for high strength concrete? |
| | a) .5 |
| | b) .45 |
| | c).4 |
| | DSY |
| | |
| | asialo |
| | Coccar |

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| 24. | Due to low w/c ratio |
|-----|--|
| | a) It doesn't cause any problems |
| | b) It causes problems |
| | c) Workability is easy |
| | d) Strength is more |
| 25. | Which type of aggregates are used to produce 70MPa compressive strength? |
| | a) All in one |
| | b) Fine |
| | c) Quarse |
| | d) Flaky |
| 26. | Maximum size of aggregates are used to produce 70MPa compressive strength is |
| | 20-30 mm |
| | b) 10-20 mm |
| | c) 30-40 mm |
| | d) 40-50 mm |
| 27. | Maximum size of aggregates are used to produce 100MPa compressive strength is |
| | a) 20-30 mm |
| | № 10-20 mm |
| | c) 30-40 mm |
| | d) 40-50 mm |
| 28. | In bridges, HSC is used. |
| | a) True |
| | b) False |
| 20 | 8. Use of HSC in column |
| 4). | a) It increase the size of the column |
| | by It decrease the size of the column |
| | c) Doesn't affect |
| | d) Decrease the strength |
| 30 | Use of HSC in column |
| 30. | a) Decrease the no of steel required in the same column |
| | b) Increase the no of steel required in the same column |
| | c) Decrease the no of steel required in the different column |
| | d) Increase the no of steel required in the different column |
| | and an arrange of the control of the |

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| 07.02.2023 10 03.03.2023 | III Enginee | of Civil Engineering Thomische Civil Engineering Thomische Civil Engineering Thomische Civil Engineering Thomas Th | Advanced Reinforced Concrete Douine | nas completed the certificate course entitled "TEC AI CONE | of the state of th |
|--------------------------|----------------|--|-------------------------------------|--|--|
| | runelveli from | te Department | -CULLUD- | TEC AL CONE | |

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| REPORT OF THE COURSE | | | | | | |
|----------------------|--------------------------|--|--|--|--|--|
| 1 | Program name | TECALC005 - ADVANCED REINFORCED CONCRETE DESIGN | | | | |
| 2 | Date of program duration | 01.02.2023 to 03.03.2023 | | | | |
| 3 | Resource person | Mr. M. A. Raja, AP /Civil/ TEC | | | | |
| 4 | Participants | 17 | | | | |
| 5 | Objective of program | The main objective of this program is to inculcate the advanced knowledge to the advanced learning students of civil engineering department and to make the students be familiar with the limit state design of RCC beams and columns and to design special structures such as Deep beams, Corbels, Deep beams, and Grid floors. | | | | |
| 6 | Program description | In this course the following key design elements are explained and their designing methodology is explained. A column is said to be slender if its cross-sectional dimensions are small compared to its length. If the slenderness ratio of a column is high, it will collapse under a smaller compression load in contrast to a short column with the same cross-sectional dimensions. A corbel is a very short | | | | |
| 7 | Outcome of this program | On completion of this course the students will have the confidence to design various concrete structures and structural elements by limit state design and detail the same for ductility as per codal requirements. | | | | |

COURSE INSTRUCTOR

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COURSE SUMMARY

| COURSE NAME | COURSE INSTRUCTOR | NO. OF HOURS | COURSE PERIOD | TOTAL NO. OF REGISTERED STUDENTS | TOTAL NO. OF ATTENDED STUDENTS |
|--|-----------------------------------|-----------------|--------------------------------|----------------------------------|---|
| TECALC005 - ADVANCED REINFORCE D CONCRETE DESIGN | Mr. M. A. Raja, AP /Civil/ TEC | 32 | 01.02.2023 to 03.03.2023 | 17 | 17 |

COURSE INSTRUCTOR

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1. Explain in details the design provedure for Standar Column.

The majority A Compression member may be Considered as Stender or long when the Stenderness Jadio las /D and lay /b are more then 12.

Thus if lar 10 >12 the Column is Considered to be stender for bending about x-xaais while if ley/bru the Column is considered to be stender for bending about

y-y ands when a short column is loaded even with an axial load the lateral deflection is either zono or very Small Similarly when a stender column is loaded even

with axial load the lateral deflection & measured from the original centre line along its length becomes appreciable.

The design of a Sterder column can be covied Out by following Simplified method.

The Strength Reduction Coefficient method

The Additional moment method. and principal

Thos deduction a Cofficient method given by is.

List-2000 is accommended for working street design
for Sente load and is board on allowable stresses.

Por Steel and Concrete.

The additional moment method. is Decommended by Indian and British Codes

The ACI code decommends the use of moment magnification method.

Stender Compression members.

the design of Stender Compression members shall be based on the forces and the moments determised from an analysis of the structure including the effect of deflections are not taken forces when the effect of deflections on moment in to account in the analysis additional moment given in 39.7.1 Shall be taken into account in the appropriate derection

Cakulated by the following formulary

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Max:
$$\frac{P_gD}{2000}$$
 $\left\{\frac{l_{ey}}{b}\right\}^2$
May: $\frac{P_gD}{2000}$ $\left\{\frac{l_{ey}}{b}\right\}^2$

where:

Py = axial load on the member

Jer = Effective length in respect of the major

axis

ley = Effective length in overpect of the minor

axis

D = depth of the exoss-section at aright angles

to the major axis and

b = wealth of the member

Notes:

A column may be considered braced in a given place if Tateral Stability to be as a whole is provided by walks or bracing or butterning provided by walks or bracing or butterning designed to sterist all lateral forces in that comprincipal contege.

plane It should otherwise be considered as untraced

In the case of a braced column cuithout any honserse loade accurring in its height the additional moment Shall be added to an inchas moment Equal to Sum of Ois M and o tomos where May is the larger end moment and Man ix the Smaller end moment In no. Case shell the intial o moment be less than 0.4 Ma. nor the fatal moment including the initial moment be less than Column the additional anoment shall be added to the end moments unbraced compression member at any given level or storey subject to lateral load are usually contrained to deflect equally in such Cases Alenderess ratio for each column may be taken as the avarage for all column acting Principal Principal THAMPRABHARANI ENGG COLLEGE. Tirunalusii. Tamiinagu 627 358

1. Explain in details the design procedure for Stender column.

The majority of reinforced concrete California in Pratice are subjected to very little secondary stresses associated with whemo deformations. These whemos are designed as short columns using the volumn interaction diagrams powerented in chapter-3. Ranely, when the calcinn height is longer than typical strong height and for the calumn section is amall valative to column height. secondary stresses become . Dignificant, especially if end mesticaints are Small and for valumns are not braced against strate sway. These columns are designed as "stender columns". Fig 1: edoquently allustrates the Secondary moments generated in a stender calumn by P-A effects. Stender oalumns resist lower arrial loads than short columns having the Same cross. section. Therfore, the blenderness effect must he considered on design, over and above the Sectional capacity considerations andiporated in the interaction diagrams The Significance of slenderness effect is expressed through Menderness station.

Stendenness Ratio

The degree of stenderness in a calumn is exponential of "stenderness occasio" defined.

below in and around around the state of the

where four unsuppointed eaturn length, k is effective length factor suppointed eaturn length, k is effective length factor suppointed eaturn and austrains and sateral bracing conditions of a calumn, and r is suadition of gyration, steplecting the size and shape of a column cross. Section

Unsupported length la

The supported length to of a column is measured as the clear distance between the underside of the beam, blab or calunn capital above , and the tep of the beam or slab below. The unsupported length of a calum may be different en two orthogonal directions depending on the supporting elements In auspective durections. provides examples of different support conditions are corresponding unapported length (le). Each coordinate and Subscript 'tr' and 'y' in the figure indicates the plane of the frame in which the stability of when is investigated.

2. Explain in détails the Hillerborg's strip method et design of slabs.

This method sequises you to define Plate Strins ata critical locations across she slab. It is usual to locate strips along lines of Supports. and along lines in between the supports for the the longitudinal and housverse directions. You can also define strips in other directions buch as across oceantrant corners, next No voids, alors angled edges, etc strips in different directions can across over without affecting each other. You can define the width of each strip to match the area of the slab that You want it to supresent.

the suinfored consider shots module can then design each strip, taking into account them design and deflection. To sion can be fluxure, shear and deflection to so he adjusting the design allowed for by a adjusting the design moments was the socod-armen method contents was the socod-armen method

cheeks that envolve T*(AS3600) or To (15456).

Punching Shear is a steen separte check
that is fully explained in the Runching
Shear. Dection.

Hiller borg's strip method of design(1,2) is a Powerfull and Versatile technique for designing two way suin forced concrete slabs and plates two way suin forced concrete slabs and plates the method is based on the lower bound theorem of Plasticity, meaning that a design based on the strip method is always safe.

The purpose of this Paper is to provide an overview of the strip method including design example. The strip method is usually devided example. The strip method is usually devided into two Paris. The simple strip method is used to design edge supported slabs. Hany designers to design edge supported slabs. Hany designers will orecognize that is an application of the strong-band lenups.

CASE STUDY

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CASE STUDY

Testing of E-Commerce Website www.flipkart.com

Submitted by:

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Plan:

To create a comprehensive test plan for testing an e-commerce web application www.flipkart.com requires careful consideration of different testing aspects.

1. Introduction:

- Overview of the application (www.flipkart.com)
- · Purpose and objectives of the test plan
- Scope of testing (devices, browsers, operating systems, etc.)

2. Test Strategy:

- Testing approach (manual, automation, or a combination)
- · Test levels (unit, integration, system, regression, etc.)
- Test types (functional, performance, security, usability, etc.)

3. Test Environment:

- Hardware and software requirements
- Supported browsers and devices
- · Test data setup and management

4. Test Cases:

- Detailed test cases covering various scenarios and functionalities
- Test case identification and prioritization
- Test case execution schedule and dependencies

5. Functional Testing:

- Verification of core e-commerce functionalities (e.g., search, product listing, add to cart, checkout, payment, order history, etc.)
- Testing various product categories and attributes
- Testing user registration and account management

6. Usability Testing:

- Evaluation of the user interface (UI) and user experience (UX)
- Ensuring responsiveness across different devices and screen sizes
- Checking accessibility compliance

7. Security Testing:

Validation of secure data transmission (HTTPS)

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- · Authentication and authorization testing
- Protection against common security vulnerabilities (e.g., SQL injection, cross-site scripting)

8. Performance Testing:

- · Load testing to assess website/mobile app performance under various user loads
- · Stress testing to determine system limits and responsiveness during peak traffic
- · Response time, resource utilization, and server performance analysis

9. Compatibility Testing:

- Verification of application behavior across different browsers (Chrome, Firefox, Safari, etc.)
- Testing on various operating systems (Windows, macOS, Android, iOS)
- · Testing on different devices (desktop, tablets, smartphones)

10. Mobile App Testing:

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- App installation and uninstallation testing
- App compatibility with different device configurations
- · Testing of app-specific features (push notifications, location services, etc.)

11. Payment Gateway Testing:

- Testing different payment methods (credit card, debit card, net banking, etc.)
- Verification of secure payment transactions

12. Order Fulfillment Testing:

- Testing order processing and shipment tracking
- Validation of order cancellation and refund processes

13. Error Handling and Recovery Testing:

- Validation of error messages and user guidance
- Recovery testing to check the application's behavior after failure scenarios

14. Regression Testing:

· Testing after each update or change to ensure existing functionality remains intact

15. User Acceptance Testing (UAT):

- Involving real users to validate the application's suitability for their needs
- Gathering feedback and making necessary improvements

16. Test Reporting:

· Defect reporting, tracking, and resolution process

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- · Test execution status and progress reporting
- · Test summary report with overall findings and recommendations

17. Risk Assessment:

- Identifying potential risks and their mitigation strategies
- Prioritizing testing efforts based on risk impact

18. Test Deliverables:

- List of documents and artifacts to be produced during testing
- Test data and environment setup documentation

19. Test Exit Criteria:

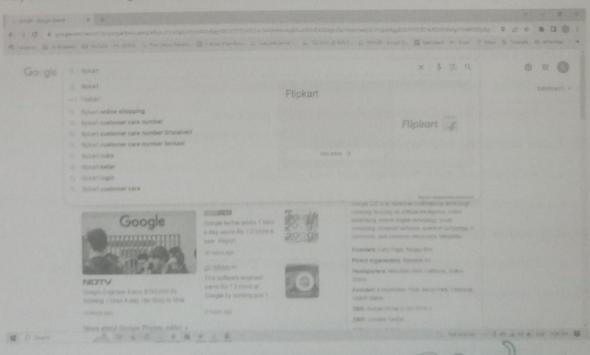
- Conditions that must be met before concluding testing
- · Criteria for approving the application for production release

20. Test Schedule:

- · Timeframe and milestones for each testing phase
- Resource allocation and responsibilities

1.Inspection of Search convenience

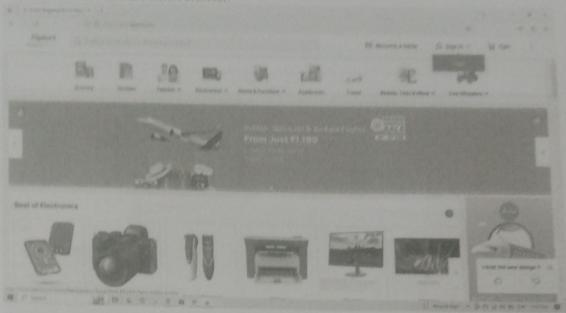
1.a) Searched on Google chrome browser.



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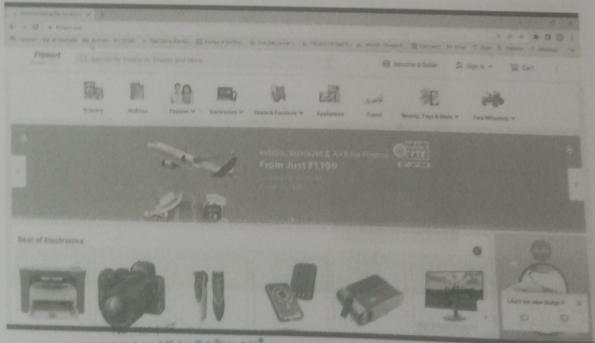
6

1.b) Searched on Mozilla Firefox browser.



Search convenience was inspected

2.Interface of the e-commerce Website - Flipkart

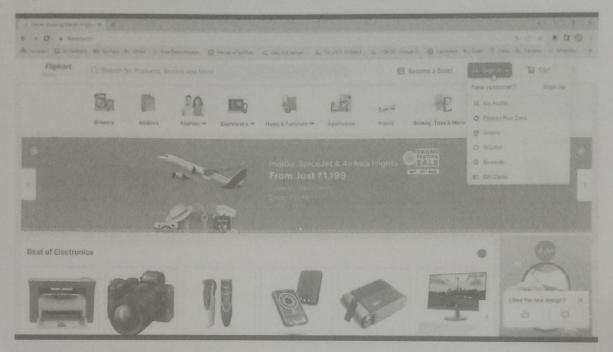


The Interface of the e-commerce website was displaying the products list and categories and It is more

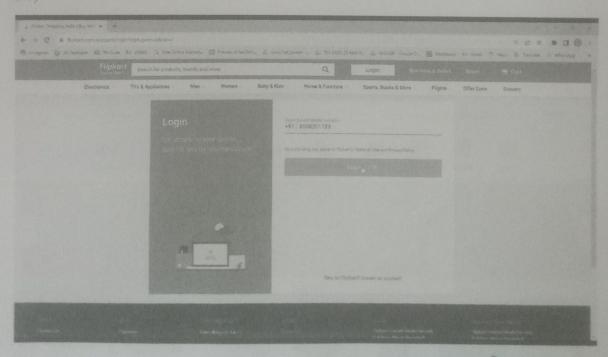
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3.User Sign in for new and already signed up user

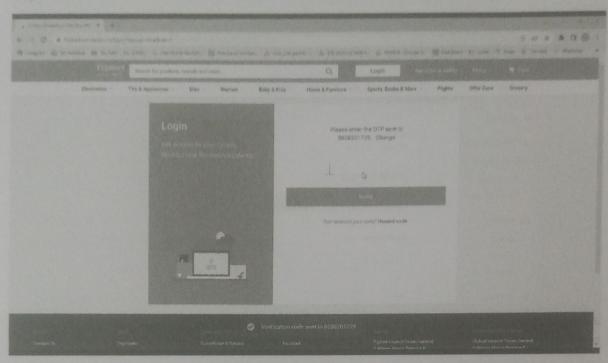
3.a)



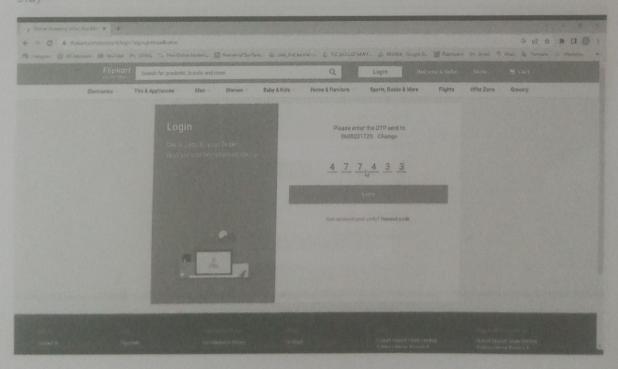
3.b)







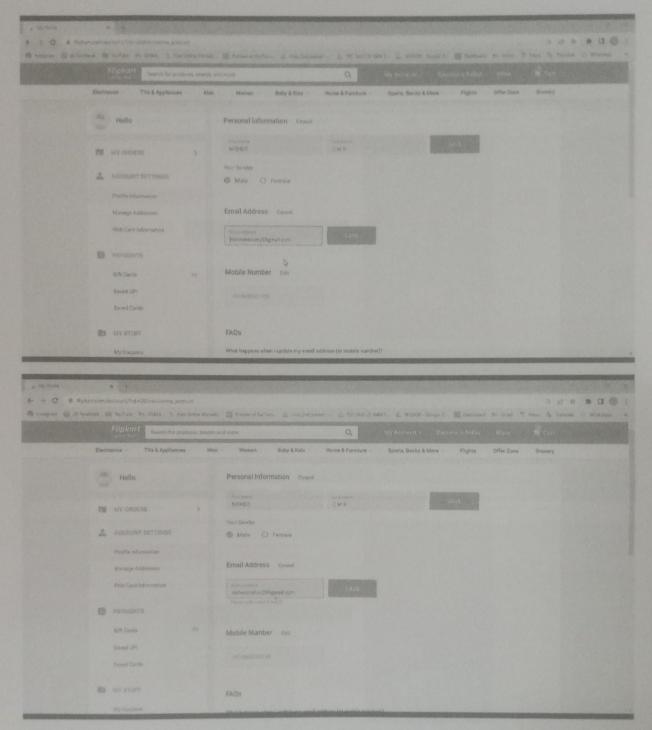
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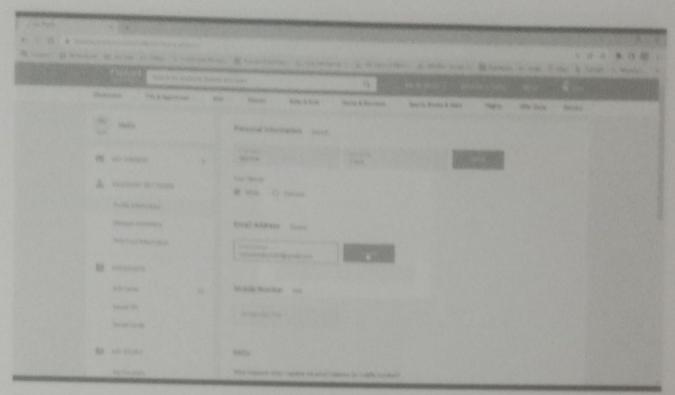
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The web application responded to the exception that is my mail id. I had intentionally missed the @ symbol. It thrown an exception as" Please enter an valid Email id".

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3.8)

OTP verification for the secure connection between user and server

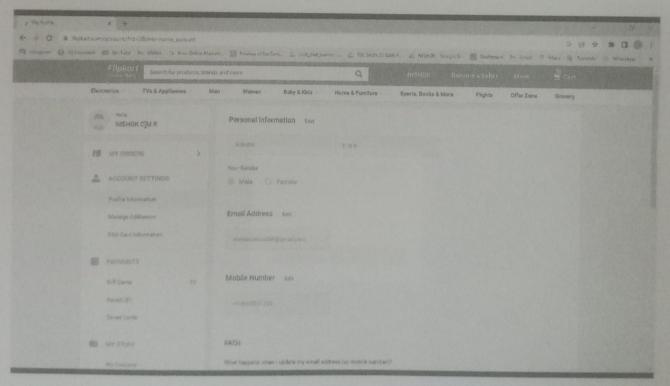
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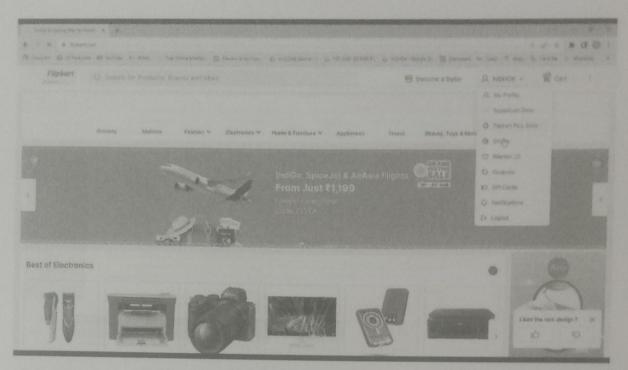
OTP received and it is verified by the Web application.

3.i)



All the information that are provided by the user was Updated in the application and saved successfully.

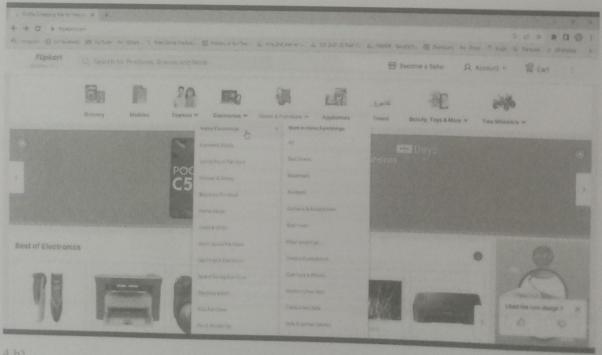
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The application displays the user name on the Navigation bar.

4. Product listing features of the e-commerce application

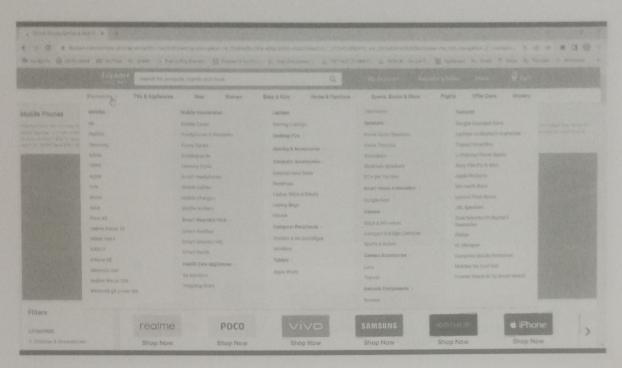
4.a)



4.6)

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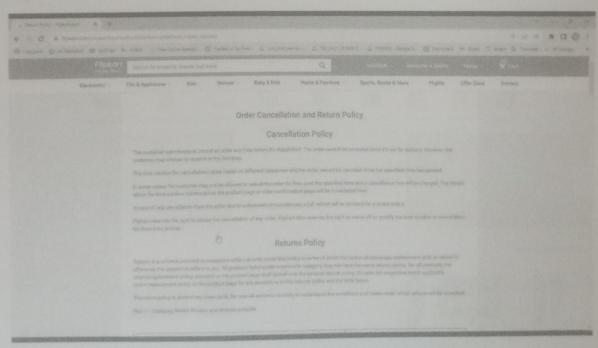
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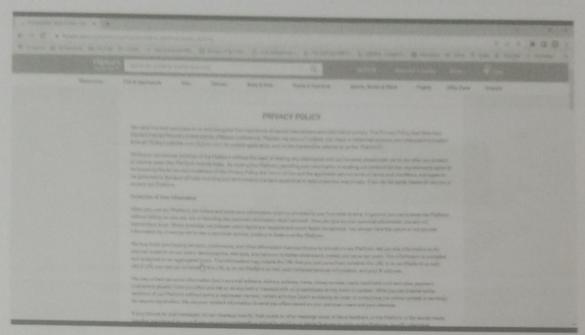
The application displays the relevant products according to the product category

5. Cancellation, Returns and Privacy policy of the application

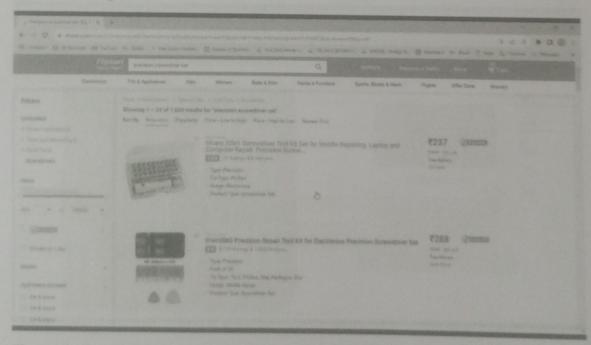
5.a)







6.Search Testing



The Application displays the exact destination product that was searched

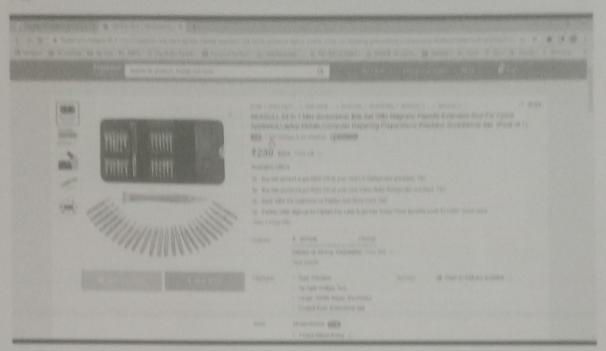
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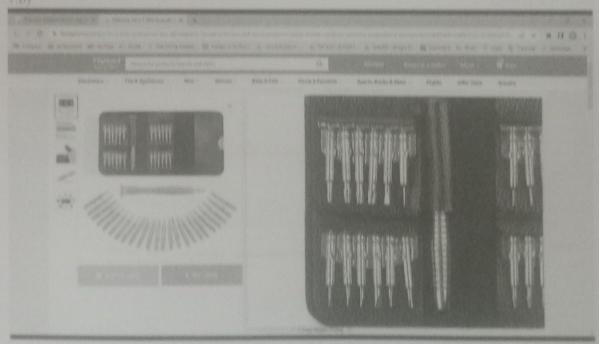
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7. Product Details and Cost of the product

7 0)

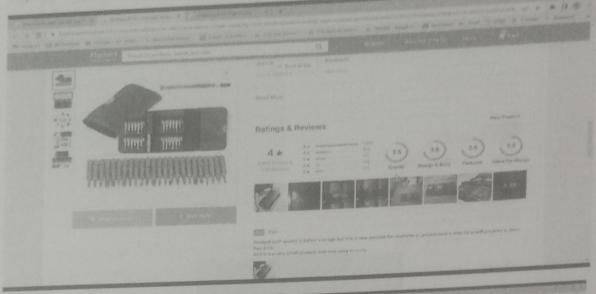


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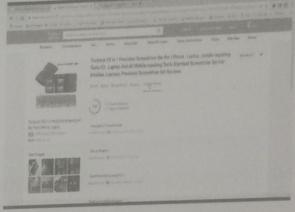


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7.c)Product Reviews

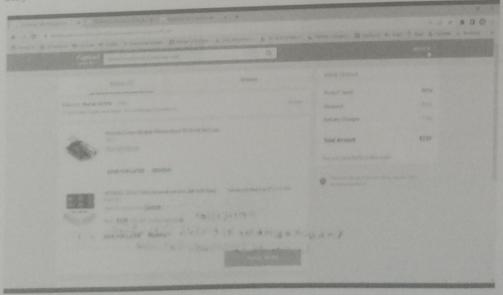






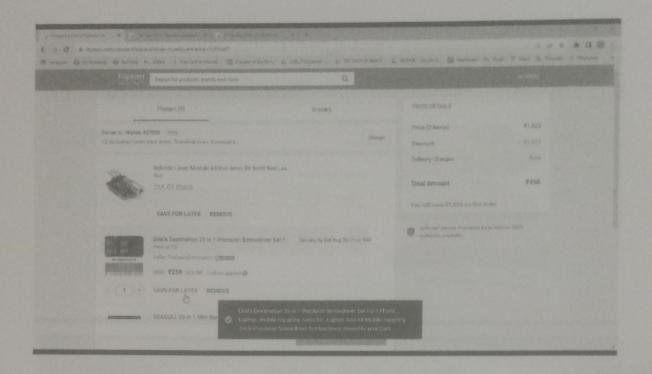
8. Add to Cart Functionalities

8.2)



8.6)

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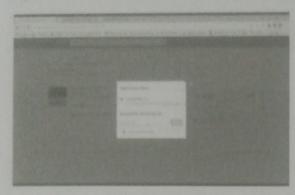
8.c)

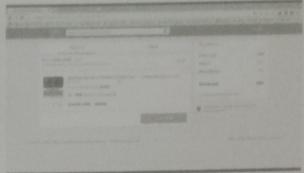


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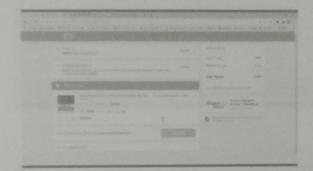
9. Order placing

9.a)

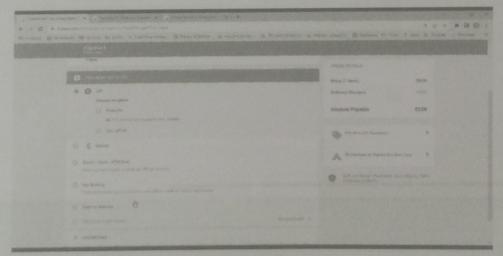




9.6)



10. Payments of the Application



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The payment was seccesfull and it was verified by the application.

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11. Order status verification

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INTERNATIONAL CONFERENCE

RECENT TRENDS IN SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS CERTIFICATE

This is to certify that Ms. S. Prabavathi of Thamirarharani Engineering Glegge Velt has Presented / participated Theore Velt has Presented / participated Theorem And Prediction.

In the international conference on recent trends in science, technology, engineering & mathematics (icstem-2023) on 3" & 4" MARCH 2623 held & RRABE College of Engineering.

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Fig. 1: Students Awarded Certificate

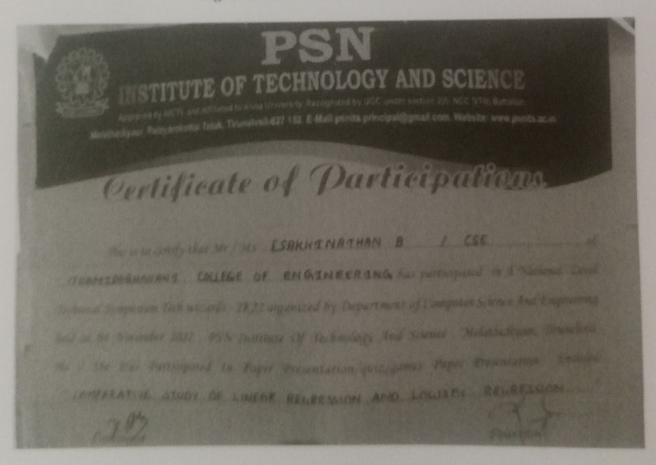


Fig. 2: Students Awarded Certificate

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THAMIRABHARANI ENGINEERING COLLEGE

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DEPARTMENT OF BLECTRONICS AND COMMUNICATION ENGINEERING COACHING SCHEDULE FOR ODD SEMESTER 2022-2023 Rev:01

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| 2. | Communication Networks | 21 12.2022 | 19.12.2022 | Mrs. G. Shunmuga Priya, AP/ECE | 38 | 28 |
| 3. | Discrete-Time Signal Processing | 24 12 2022 | 22 12 2022 | Mrs. P. Saravanaselvi , APÆCE | 38 | 27 |
| 4. | Total Quality Management | 27.12.2022 | 17.12 2022 | Mr. S. R. Sam Kingsley AP/ECE | 38 | 29 |
| 5. | Renewable Energy Sources | 29.12.2022 | 27.12.2022 (AN) | Mrs. R.S. Bini, AP/ECE | 38 | 30 |
| 6. | Digital Communication | 03.01.2023 | 29.12.2022 AN & 30.12.2022 | Mr. A. Niyas Ahamed , AP/ECE | 38 | 264 |
| or market to a family and | | | YEAR : IV | | - | 46 |
| 1. | Ad Hoc And Wireless Sensor Networks | 15.12.2022 | 12.12.2022 | Mrs. G. Shunmuga Priya, AP/ECE | 41 | 32 |
| 2. | Antennas And Microwave Engineering | 21.12.2022 | 16.12.2022 & 19.12.2022 | Mr. V. Arunachalam, AP/ECE | 41 | 308 |
| 3. | Hospital Management | 30.12.2022 | 26.12.2022 & 27.12.2022 | Mr. A. Niyas Ahamed , AP/ECE | 41 | 29 |
| 4. | Embedded And Real Time Systems | 03.01.2023 | 21.12,2022 AN & 30.12,2022 AN | Mrs. R.S. Bini , AP/ECE | 41 | 29 32 4 82 |
| 5. | Optical Communication | 05.01.202 | 22.12.2023 & 23.12.2022 | Mr. R. Alexsander, AP/ECE | 41 | 30 8 |

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| 09.09.2023 | | Ms. S. Anusha, AP EEE | BE3254 | Basic Electrical and Instrumentation | AN |
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| | D-MECH | Dr. S. Selva kumar, AP PHY | - | Physics for civil engineering | FN |
| | D- CIVIT | Mrs. S. Thirithuva Smily, AP PHY | PH3201 | Physics for Electrical engineering | FN |
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| | | Dr. J. Alphas Jeha Singh. AP EEE | | Engineering | - |
| | B-CSE | Ms. D. Chella Priya, APPHY | PH3256 | Physics for Information science | AV. |
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Unit - I (natrices)

Characteristic equation and characteristic polynomial [11-12]

Example: 0

find the characteristic equation of the matrix

(02).

Solution!

Let , A= (02)

The characteristic equation of A is 12-5, 1+50=0.

S1 = Sum of the main diagonal elements

Sa = |A| = | 2 | = 2 - 0 = 2

Hence, the equation is 12 - (3) & +2 =0

ie) 12-31+200

Example : 3

Find the characteristic equation $\begin{pmatrix} 2 & -3 & 1 \\ 3 & 1 & 3 \\ -5 & 2 & -4 \end{pmatrix}$

Solution !-

Let A = \[2 -3 '\]
3 \[3 \]
-5 \[2 -4 \]

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The characteistic equation is = 13-5, 13+50 x = 53 = 0.

S, = Sur of the adiagonal elements

Sa : Sum of the minors of main diagonal elements

83 = |A|.

$$= 2(-4-6)-(-3)(-10+15)+1(6+5)$$

$$= 2(-10)+3(3)+1(11)=-20+9+11=0.$$

$$1 + 3 + (-1) + (-2$$

13+12-21 20.

Example: 3 And the characteristic polynomial of

Solution: -Let, A = (1 4)

The characteristic polynomial of A is $|A-\lambda I|$ $= \left| \left(\begin{array}{c} 1 & 4 \\ 2 & 3 \end{array} \right) - \lambda \left(\begin{array}{c} 1 & 0 \\ 0 & 1 \end{array} \right) \right| = \left| \begin{array}{c} 1 - \lambda & 4 \\ 2 & 3 - \lambda \end{array} \right|$

= (1-1)(3-1)-8=3-1-31+12-8

= 2-44-5

Home, the characteristic polynomial is 2-42-5.

THAMIRABHARANI ENGG DOLLEGE Tirunelyeli Tamilnadu-627 359 Eigen Values and Eigen Vectors of the Non-Symmetric Matrix.

Example: ① Find the Eigen values and Eigen vectors of the mather, $A = \begin{bmatrix} 11 & -4 & -7 \\ -7 & -2 & -5 \end{bmatrix}$

Solution: -Griven, A = [11 -4 -7] 7 -2 -5] 10 -4 -6]

Step: O. To find characteristic, equation.

The characteristic equation of A 35 1A-XII 20

(c) 13-5; 12+521-53=0.

S, = Sam of the main diagonal elements. = 11+(-2)+(-6) = 11-8=3

Sa . Sum of the minors of main diagonal elements

= |-2 -5 | + | 11 -7 | + | 11 -4 |

= (12-20)+(-66+70)+(-00+28)

Sz= |A| = |11 -4 -7 | 10 -4 -6 con

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= 11 (10-80)-1-4) (-42+50)-7 (-08+80) = 11 (-8)+4(8)-7(8) = -88+30+56 =0 : (1) => \ \lambda^2-3\lambda^2+2\lambda-0=0 Step: 3 To And the eiger Values

1 (2-34+2) =0

=> 1 =0 , 12-34+8=0

(x-1) (x-2) =0.

=> 1=0, 1=1, 1=2

Here, the Eigenvalues of the given matrix are 0,1,2.

Step: 10 Find the eigen vertors

Solve, (A-12) x =0.

(a)
$$\left[\begin{pmatrix} 11 & -4 & -7 \\ -7 & -2 & -5 \\ 10 & -4 & 0 \end{pmatrix} - \lambda \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix} \right] \begin{bmatrix} 24 \\ 22 \\ 23 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\begin{array}{c} (a) \begin{bmatrix} 11-\lambda & -4 & -7 \\ 7 & -2-\lambda & -5 \end{bmatrix} \begin{bmatrix} 24 \\ 23 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

Case (i) Di 100

$$\begin{bmatrix} 11 & -4 & -7 \\ 7 & -2 & -5 \\ 10 & -4 & -6 \end{bmatrix} \begin{bmatrix} 21 \\ 22 \\ 23 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

1121-7422-723 =0

721 - 220-523 = 0

1021 - 420 - 623 =0

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Solving (1) and (3), by cross multiplication mothod, are get.

$$\frac{\alpha_1}{20-14} = \frac{\alpha_2}{6} = \frac{\alpha_3}{6}$$

$$\frac{\alpha_1}{6} = \frac{\alpha_2}{6} = \frac{\alpha_3}{6}$$
The solution of the control of the control

Heme, the corresponding eigen vertors is
$$X_1 \in [1]$$

Case (ii)
$$2f = 1$$
,
$$\begin{bmatrix}
10 & -4 & -7 \\
7 & -3 & -5
\end{bmatrix}
\begin{bmatrix}
24 \\
29 \\
29
\end{bmatrix}
=
\begin{bmatrix}
0 \\
0
\end{bmatrix}$$

$$1024 - 422 - 723 = 0$$

$$1024 - 422 - 723 = 0$$

$$1024 - 422 - 723 = 0$$

Solve (4) and (5) by cross multiplication method.

$$\frac{21}{20-21} = \frac{22}{-19+50} = \frac{23}{-30+28}$$

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$$\begin{bmatrix} 9 & -4 & -7 \\ 7 & -4 & -8 \end{bmatrix} \begin{bmatrix} 24 \\ 20 \\ 23 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

Solving Found 8 by Cross-multiplication, we get

$$\frac{\alpha_1}{20-28} = \frac{\alpha_2}{-49+45} = \frac{\alpha_3}{-36+28}$$

$$\frac{24}{-8} = \frac{22}{-4} = \frac{23}{-8}$$

*(-2)

thence, the corresponding Eigenvalors is $x_3 = \begin{bmatrix} 2 \\ 1 \end{bmatrix}$

Find the Eigen values and Eigen vertors of

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not the Eigen values and Figen votors of 0 2 1 Also, determine the algebric and geometric multiplicity.

Solution:

Criven the matrix is upper triangular matrix. Here the proporties of eigenivalues,

Eigen values are diagonal elements.

. The eigen values are 2, 2, 2.

1= 2, 2, 2 is an eigen values of algebric multiplicity 3.

To find the Eigenvectors.

Solve,
$$(A-NI) \times = 0$$
.

$$\begin{bmatrix} (2 & 1 & 0) \\ 0 & 2 & 1 \\ 0 & 0 & 2 \end{bmatrix} - \lambda \begin{bmatrix} 0 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} 24 \\ 22 \\ 23 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

(a)
$$\begin{bmatrix} 2-\lambda & 1 & 0 \\ 0 & 2-\lambda & 1 \\ 0 & 0 & 2-\lambda \end{bmatrix} \begin{bmatrix} 2_1 \\ 2_2 \\ 2_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$
 when, $\lambda = 2$

(i)
$$02_1 + 02_2 + 02_3 = 0$$

$$02_1 + 02_2 + 23 = 0$$

$$02_1 + 02_2 + 23 = 0$$

$$02_1 + 02_3 + 02_3 = 0$$

$$02_1 + 02_3 + 02_3 = 0$$

Solve, O and (2) by cross multiplication THAMIRE

we get,

$$\frac{\alpha_1}{1-0} = \frac{\alpha_0}{0-0} = \frac{\alpha_3}{0-0}$$

7 = 30 = 33

Hence, the corresponding Eigenventor is [1]

We get one Eiger vector: Corresponding to repeated eigen values. and not linearly Independent.

So, Geometric multiplicity is one.

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August Andrews Charles

Matrices and calculus.

unit-in- Functions of Several variables.

1. State any two properties of Jaubian. [2018/2019].

Solution !-

1) If u and v are the functions of x and y, then

 $\frac{\partial(u,v)}{\partial(x,y)} \times \frac{\partial(x,y)}{\partial(u,v)} = 1$

(3) If we u and v are functions of (x,y) and x, y ever themselves functions of r,s then D(u,v) D(x,y) = D(u,v) D(x,y) D(x,s)

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Matrices and calculus

unit-in- Functions of Several variables

Example:

Jan-2018

If
$$x = uv$$
, $y = \frac{u}{v}$, find $\frac{\partial(x,y)}{\partial(u,v)}$

Solution:

$$J = \frac{\partial(x,y)}{\partial(u,v)} = \begin{vmatrix} \frac{\partial x}{\partial u} & \frac{\partial x}{\partial v} \\ \frac{\partial y}{\partial u} & \frac{\partial y}{\partial v} \end{vmatrix}$$

Given,

$$x = uv$$

$$\frac{\partial x}{\partial u} = V$$

$$\frac{\partial x}{\partial v} = [u]$$

$$\frac{\partial y}{\partial u} = \boxed{1}$$

$$\frac{\partial y}{\partial v} = u\left(\frac{-1}{v^2}\right) = \boxed{\frac{-u}{v^2}}$$

$$= -\frac{u}{v} - \frac{u}{v} = \sqrt{-\frac{2u}{v}}$$

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Matrices and Calculus Unit-I Integeral Calculus

Example:

Evaluate So coso. do using integration by parts [APR/MAY 2023]

Solution !-

Let, I= [0 coso. do.] Su du = uv- Sv du

Let, u=0

du =1

du = do.

du = coso.do.

Sdu = Scoso.do.

1 V = Sino

So coso do = o sino - sino da

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Matries and calculus (unit-is)
[Integral calculus]

Example:

Find the value of $\int \sin^6 \alpha$, da

APR/MAY - 2023

Solution:

Given, I = Sinbx.dx

Here, [n=6] (is even)

$$\mathbb{I}_{6} = \begin{bmatrix} \frac{6-1}{6} \end{bmatrix} \begin{bmatrix} \frac{6-3}{6-2} \end{bmatrix} \begin{bmatrix} \frac{6-5}{6-4} \end{bmatrix} \cdot \frac{\pi}{2}$$

$$I_n = \binom{n-1}{n} \binom{n-3}{n-2} \binom{n-5}{n-4}$$
.... I

 $I_{6} = \left(\frac{5}{6}\right)\left(\frac{3}{4}\right)\left(\frac{1}{2}\right)\left(\frac{1}{2}\right)$

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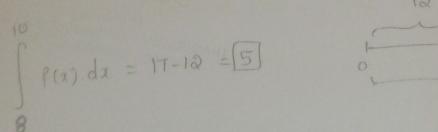
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Matrices and calculus. unit-10 [Integral calculus]

Example: 10 Griven that
$$\int f(\alpha) d\alpha = 17$$
 and $\int f(\alpha) d\alpha = 12$ then find $\int f(\alpha) d\alpha$. [Jan-2022]

Solution! Solution! Solution! Solution! Solution! Solution! By properly,
$$\int_{a}^{b} f(x) dx = \int_{a}^{b} f(x) dx + \int_{a}^{b} f(x) dx = \int_{a}^{b} f(x) dx$$
, and $\int_{a}^{b} f(x) dx = \int_{a}^{b} f(x) dx$, and $\int_{a}^{b} f(x) dx = \int_{a}^{b} f(x) dx$.



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Unit - n - Differential Calculus

Function of continuous at (-d), d).

$$f(x) = \begin{cases} cx^{3} + 2x, & x < 2 \\ x^{3} - cx, & x \ge 2. \end{cases}$$

3 olution! -

Given: f is continuous.

(a)
$$f(x) = f(x) = f(x^{+})$$

Left Right

-od Cx3+ax 2 x30-cx

(i)
$$f(a) = \lim_{x \to a} f(x) = \lim_{x \to a} \left[x^3 - cx \right]$$

①
$$f(a^{-}) = \lim_{x \to a^{-}} f(x) = \lim_{x \to a^{-}} [(x^{2} + ax)]$$

8-20 = 40 +4

6c = 4

[C= 8]

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AND THE STATE OF T

Jacobians

[A.U. 2019 /

Example:

If white $x = u^2 - v^2$ and y = aw, then find the Javobian of α and y with respect to u and v.

Solution:

$$\frac{\partial(x,y)}{\partial(u,v)} = \begin{vmatrix} \frac{\partial x}{\partial u} & \frac{\partial x}{\partial v} \\ \frac{\partial y}{\partial u} & \frac{\partial y}{\partial v} \end{vmatrix} = 0$$

Griven, $\chi = u^2 - v^2$ $\frac{\partial x}{\partial u} = \partial u$ $\frac{\partial x}{\partial u} = -\partial v$

From (1)

= 402+4v? = 4 (02+v2).

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Malrices and Calculus

Examples:

-6

Show that the function $f(a) = 1 - \int 1 - x^2$ is continuous on the interval [-1,1].

Solution:
Solution:
WKT, $\lim_{\chi \to -1^+} f(\chi) = \lim_{\chi \to 1^-} f(\chi)$ $= \lim_{\chi \to -1^+} 1 - \sqrt{1 - \chi^2}.$

Given, the Runchion fas is continuous on [-1,17

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Malness and calculus (magnet)

Find the derivatives of $y = (\sin x)^{\cos x}$ Solution.

(more, $y = (\sin x)^{\cos x} = 0$) $\log y = \cos x [\log \sin x]$ $\frac{1}{y} \cdot \frac{dy}{dx} = \cos x [\frac{1}{\sin x} \cos x] + \log \sin x [\cos - \sin x]$

1 dy = cos2 [cosecz] - sinx log sinx

dy = [sinze] cosx [cosx - sinx log sinx]

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Matrices and calculus [MA3151] Example Find the derivatives of y = [sinx] cosx logy = cosx [log sinx] | [uv = uv + vu'] 1 dy = cosx [1 cosx] + log sinx [- sinx] y dy = cos2 [cosec x] = sinx log sinx · dy = y [cos2x.cosecx - sinx log sinx]

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rample: Matrices and calculus

Find the derivative of $y = (x^2 - 1)^{100}$

Solution:

Given, $y = (x^3.1)^{00}$ Let, $u = (x^3.1)^{00}$.

> y = u100

dy = 1001199

dy dy du da

 $u = x^{2} - 1$ $\frac{du}{dx} = 3x^{2}$

 $\frac{dy}{dz} = 100 (z^{2} - 1)^{2} (3z^{2})$ $\frac{dy}{dz} = 300 (x^{2} - 1)^{2}, x^{2}$

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Matrices and calculus [MA3151]

Example !

find the critical value of the function $f(x) = 5x^3 - 6x$.

Solution !

Given, $f(\alpha) = 5x^3 - 6x$ $f'(\alpha) = 15x^2 - 6$ $f'(\alpha) = 0 \implies 15x^2 - 6 = 0$ $15x^2 = 6$ $x^2 = \frac{6}{18}$ $x = + \sqrt{8}$

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