

School of Aeronautics (Neemrana)

I-04, RIICO Industrial Area, Neemrana, Dist. Alwar, Rajasthan

Approved by Director General of Civil Aviation, Govt. of India, All India Council for Technical Education
Ministry of HRD, Govt of India & Affiliated to Rajasthan Technical University, Kota & BTU, Bikaner Rajasthan

Question Paper For Internal Assessment Examination (Theory) - Credit 2 / 94

Instructions for Students / Faculty

Mid Term I (Total 40 Marks, 1.5 HRS., Syllabus from Unit-1)

- Part A: Total number of questions to be given are four (2 from CO1 and 2 from CO2), each carrying 2 marks and are compulsory to attend. There is no choice. They are short answer type questions (**Not More Than 25 Words for Both Question & Answer**), no objective type or fill in the blanks. Total 8 marks.
- Part B: Total number of questions to be given are six (3 from CO1 and 3 from CO2), out of which student has to answer four (2 from CO1 and 2 from CO2). They are long answer type (**Not More Than 50 Words for Question Only**), each carrying 4 marks. Total 16 marks.
- Part C: Total number of questions to be given are four (2 from CO1 and 2 from CO2), out of which student has to answer two (1 from CO1 and 1 from CO2). They are numerical answer type / fully elaborative type* (**Not More Than 70 Words for Question Only**), each carrying 8 marks. Total 16 marks.

Mid Term II (Total 60 Marks, 2 HRS., Syllabus from Unit- 2)

- Part A: Total number of questions to be given are ten (5 from CO3 and 5 from CO4), each carrying 2 marks and are compulsory to attend. There is no choice. They are short answer type questions (**Not More Than 25 Words for Both Question & Answer**), no objective type or fill in the blanks. Total 20 marks.
- Part B: Total number of questions to be given are six (3 from CO3 and 3 from CO4), out of which student has to answer four (2 from CO3 and 2 from CO4). They are long answer type (**Not More Than 50 Words for Question Only**), each carrying 4 marks. Total 16 marks.
- Part C: Total number of questions to be given are four (2 from CO3 and 2 from CO4), out of which student has to answer any two (1 from CO3 and 1 from CO4). They are numerical answer type / fully elaborative type (**Not More Than 70 Words For Question Only**) *, each carrying 12 marks. Total 24 marks.

Mid Term III (Total 60 Marks, 2 HRS., Syllabus from Unit- 3)

- Part A: Total number of questions to be given are ten (5 from CO5 and 5 from CO6), each carrying 2 marks and are compulsory to attend. There is no choice. They are short answer type questions (**Not More Than 25 Words for Both Question & Answer**), no objective type or fill in the blanks. Total 20 marks.
- Part B: Total number of questions to be given are six (3 from CO5 and 3 from CO6), out of which student has to answer four (2 from CO5 and 2 from CO6). They are long answer type (**Not More Than 50 Words for Question Only**), each carrying 4 marks. Total 16 marks.
- Part C: Total number of questions to be given are four (2 from CO5 and 2 from CO6), out of which student has to answer any two (1 from CO5 and 1 from CO6). They are numerical answer type / fully elaborative type (**Not More Than 70 Words For Question Only**) *, each carrying 12 marks. Total 24 marks.

* LIST OF ELABORATIVE THEORY QUESTION SUBJECTS: 1 FY1 - 04 Communication Skills (Cr 2), 1 FY1 - 05 Human Values (Cr 2), 2 FY1 - 04 Communication Skills (Cr 2), 2 FY1 - 05 Human Values (Cr 2), 3 AN1 - 02 Technical Communication (Cr 2), 4 MH1 - 02 Technical Communications (Cr 2), 4 MH1 - 03 Economics and Financial Accounting (Cr 2), 5 AN5 - 12 Aircraft Maintenance Practices (Cr 2), 6 AN3 - 01 Mechanics of Composite Materials (Cr 2), 6 AN5 - 12 Aircraft Rules and Regulation (Cr 2), 6 MH3 - 01 Automobile Engineering (Cr 2).

Instructions For Faculties:

There should be total 6 Course Outcomes (COs) for each subject.

- Mid Term Question Papers are to be submitted as per Course Outcomes (COs) which should be divided equally in Part A, Part B and Part C according to Mid Term Examination and Credit Point.
- In Mid Term-1, the questions are to be given from CO1 and CO2. In Mid Term-2, the questions are to be given from CO3 and CO4. Similarly, in Mid Term-3, the questions are to be given from CO5 and CO6.
- FACULTY MEMBERS, PLEASE ENSURE EXCEPT ABOVE LISTED SUBJECTS, NO THEORITICAL ELABORATIVE QUESTION SHOULD BE GIVEN IN PART 'C' OF QUESTION PAPER**

INSTRUCTION FOR STUDENTS

- STUDENT IS ALLOWED TO ENTER LATE NOT MORE THAN 15 MIN AFTER STARTING OF EXAM, AND MAY LEAVE THE EXAM HALL ON EXPIRY OF ATLEAST OF 1 Hr FROM THE STARTING TIME OF EXAMINATION.**

Question Paper & Student Details

Type of Exam	Mid Term 1	Date of Submission	17/03/2021
Name of Faculty	Mr. Yatan	Date of Examination	22/03/2021
Course	B.Tech (Aeronautical Engineering)	Semester	SEMESTER : 6
Batch	DS - 2018	Subject	6 AN3 - 01 Mechanics of Composite Materials (Cr 2)

COURSE OUTCOMES FOR REFERENCE TO FRAME QUESTION PAPER

(Faculties are required to mention relevant Course Outcome number against the respective question in QP)

Course Outcome	COURSE OUTCOME Upon completion of the course, Students will be able to CO 1. Investigate the different types of Composite materials and its application in aviation industry. CO 2. Apply Composite Materials ideas to solve the practical problems in the society. CO 3. Solve problems in Manufacturing of Composites materials. CO 4. Analyze the Elastic Behaviour of Composite Lamina-Micromechanics. CO 5. Apply the Multidirectional Laminates in real time applications. CO 6. Calculate the Mechanical Testing, Failure and Maintenance of Composites materials.
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Email I'd	yatannagpal@soaneemrana.org		Phone No.	798-226-2196
Student Name			Student Reg No.	
Part A				
INSTRUCTIONS FOR PART A: ALL THE QUESTIONS ARE COMPULSORY TO ATTEND				
1. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.			1	
Question : 1	Define matrix and reinforcement.			
Lesson Plan No. - 2	Topic - Introduction to matrix and fiber	Source - Mechanics of composite materials by Autar K. Kaw, second edition.	CO No. -	
Question : 2	Write the advantages of composite materials.			
Lesson Plan No. - 1	Topic - Importance of Composite Materials	Source - Mechanics of Composite Materials by Robert M. Jones, Second edition	CO No. -	
Question : 3				
Lesson Plan No. -	Topic -	Source -	CO No. -	
Question : 4				
Lesson Plan No. -	Topic -	Source -	CO No. -	
Question : 5				
Lesson Plan No. -	Topic -	Source -	CO No. -	
2. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.			2	
Question : 6	Give names of various fibers used in advanced composite materials			
Lesson Plan No. - 4	Topic - Introduction to various types of fibers	Source - Analysis and performance of fiber composites by B.D. Aggarwal, third edition	CO No. -	
Question : 7	Discuss the main role of various composite materials in aviation industry?			
Lesson Plan No. - 6	Topic - Applications of composites in aviation industry	Source - Mechanics of composite materials by Autar K. Kaw, second edition	CO No. -	
Question : 8				
Lesson Plan No. -	Topic -	Source -	CO No. -	
Question : 9				
Lesson Plan No. -	Topic -	Source -	CO No. -	
Question : 10				
Lesson Plan No. -	Topic -	Source -	CO No. -	
Part B				
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FOR MIDTERM 1 - Part B: Total number of questions to be given are six (3 from CO1 and 3 from CO2), out of which student has to answer four (2 from CO1 and 2 from CO2).
FOR MIDTERM 2 - Part B: Total number of questions to be given are six (3 from CO3 and 3 from CO4), out of which student has to answer four (2 from CO3 and 2 from CO4).
FOR MIDTERM 3 - Part B: Total number of questions to be given are six (3 from CO5 and 3 from CO6), out of which student has to answer four (2 from CO5 and 2 from CO6).

3. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.

1

Question : 1 Explain the properties of matrix materials?

Lesson Plan No. - 3	Topic - Introduction to properties of matrix materials	Source - Analysis and performance of fiber composites by B.D. Aggarwal, third edition	CO No. -
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Question : 2 Briefly, describe the application of composite materials?

Lesson Plan No. - 1	Topic - Importance of Composite Materials	Source - Mechanics of Composite Materials by Robert M. Jones, Second edition	CO No. -
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Question : 3 Describe the role of reinforcements in a composite.

Lesson Plan No. - 2	Topic - Introduction to matrix and fiber	Source - Mechanics of composite materials by Autar K. Kaw, second edition	CO No. -
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4. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.

2

Question : 4 Give a brief description of epoxy.

Lesson Plan No. - 5	Topic - Properties of polymers like epoxy, polyester and phenolic	Source - Analysis and performance of fiber composites by B.D. Aggarwal, third edition	CO No. -
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Question : 5 Give a description of the glass fiber and graphite fiber.

Lesson Plan No. - 4	Topic - Applications of composites in aviation industry	Source - Mechanics of composite materials by Autar K. Kaw, second edition	CO No. -
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Question : 6 Write a short note on use of composites in space shuttle.

Lesson Plan No. - 6	Topic - Applications of composites in aviation industry	Source - Mechanics of composite materials by Autar K. Kaw, second edition	CO No. -
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Part C

FOR MIDTERM 1 - Part C: Total number of questions to be given are four (2 from CO1 and 2 from CO2), out of which student has to answer two (1 from CO1 and 1 from CO2).
FOR MIDTERM 2 - Part C: Total number of questions to be given are four (2 from CO3 and 2 from CO4), out of which student has to answer any two (1 from CO3 and 1 from CO4).
FOR MIDTERM 3 - Part C: Total number of questions to be given are four (2 from CO5 and 2 from CO6), out of which student has to answer any two (1 from CO5 and 1 from CO6).

5. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.

1

Question : 1 Explain briefly the classifications of a composite in detail.

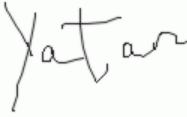
Lesson Plan No. - 2	Topic - Introduction to composite structure	Source - Mechanics of composite materials by Robert M Jones, second edition	CO No. -
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Question : 2 Explain in detail, matrix factors that contribute to the mechanical performance of composites?

Lesson Plan No. - 3	Topic - Concept and introduction to properties of matrix materials	Source - Analysis and performance of fiber composites by B.D. Aggarwal, third edition	CO No. -
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6. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.

2

Question : 3	Explain the properties of carbon fiber in detail and also, give a description of the aramid fiber and explain in detail the properties of it.		
Lesson Plan No. - 4	Topic - Properties of fibers like glass, kevlar, carbon and graphite	Source - Analysis and performance of fiber composites by B.D. Aggarwal, third edition	CO No. -
Question : 4	Explain in detail about the various polymeric materials, their advantages and applications along with examples of each.		
Lesson Plan No. - 6	Topic - Applications of composites in aviation industry	Source - Mechanics of composite materials by Autar K. Kaw, second edition	CO No. -
Upload Scanned Document In Case of Numerical or Diagram For Any of The Above Questions. <i>(Mention question number with relevant fig / numerical / equations. Max 150 KB)</i>			
I have scrutinized the question paper. There is no spelling mistake or any type of irrelevant question.			
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Entry ID: 94

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Question Paper For Internal Assessment Examination (Theory) - Credit 2 / 96

Instructions for Students / Faculty

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Mid Term II (Total 60 Marks, 2 HRS., Syllabus from Unit- 2)

- Part A: Total number of questions to be given are ten (5 from CO3 and 5 from CO4), each carrying 2 marks and are compulsory to attend. There is no choice. They are short answer type questions (**Not More Than 25 Words for Both Question & Answer**), no objective type or fill in the blanks. Total 20 marks.
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- Part B: Total number of questions to be given are six (3 from CO5 and 3 from CO6), out of which student has to answer four (2 from CO5 and 2 from CO6). They are long answer type (**Not More Than 50 Words for Question Only**), each carrying 4 marks. Total 16 marks.
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Question Paper & Student Details

Type of Exam	Mid Term 1	Date of Submission	17/03/2021
Name of Faculty	Ms. Varsha	Date of Examination	22/03/2021
Course	B.Tech (Aeronautical Engineering)	Semester	SEMESTER : 6
Batch	Combined Batches 15, 16, 17, SF 1	Subject	6 AN3 - 01 Mechanics of Composite Materials (Cr 2)

COURSE OUTCOMES FOR REFERENCE TO FRAME QUESTION PAPER

(Faculties are required to mention relevant Course Outcome number against the respective question in QP)

Course Outcome	<p>CO 1. Investigate the different types of Composite materials and its application in aviation industry.</p> <p>CO 2. Solve problems in Manufacturing of Composites materials.</p>		
Email I'd	svarsha2631@gmail.com	Phone No.	935-106-2262
Student Name		Student Reg No.	

Part A

INSTRUCTIONS FOR PART A: ALL THE QUESTIONS ARE COMPULSORY TO ATTEND

1. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.

1

Question : 1	What do you mean by composite material?		
Lesson Plan No. - 1	Topic - Introduction to composite material	Source - Mechanics of composite material by B.D. Agrawal, Chapter1, Page no.1-5	CO No. -
Question : 2	What are the applications of composite Materials?		
Lesson Plan No. - 2	Topic - Introduction to composite Material	Source - Mechanics of composite material by B.D. Agrawal, Chapter 2, Page no10-12	CO No. -
Question : 3			
Lesson Plan No. -	Topic -	Source -	CO No. -
Question : 4			

Lesson Plan No. -	Topic -	Source -	CO No. -
Question : 5			
Lesson Plan No. -	Topic -	Source -	CO No. -
2. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.			2
Question : 6	What are the different Fabrication process?		
Lesson Plan No. - 7	Topic - Fabrication process	Source - Mechanics of composite material by B.D.Agrawal	CO No. -
Question : 7	What do you mean by matrix and give three example?		
Lesson Plan No. - 5	Topic - Matrix	Source - Mechanics of composite material by B.D.Agrawal	CO No. -
Question : 8			
Lesson Plan No. -	Topic -	Source -	CO No. -
Question : 9			
Lesson Plan No. -	Topic -	Source -	CO No. -
Question : 10			
Lesson Plan No. -	Topic -	Source -	CO No. -
Part B			
<p>FOR MIDTERM 1 - Part B: Total number of questions to be given are six (3 from CO1 and 3 from CO2), out of which student has to answer four (2 from CO1 and 2 from CO2).</p> <p>FOR MIDTERM 2 - Part B: Total number of questions to be given are six (3 from CO3 and 3 from CO4), out of which student has to answer four (2 from CO3 and 2 from CO4).</p> <p>FOR MIDTERM 3 - Part B: Total number of questions to be given are six (3 from CO5 and 3 from CO6), out of which student has to answer four (2 from CO5 and 2 from CO6)</p>			
3. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.			1
Question : 1	Compare the properties of polymer like epoxy, polyester and phenolic?		
Lesson Plan No. - 4	Topic - Polymers and its properties	Source - Mechanics of composite Material by B.D. Agrawal	CO No. -
Question : 2	Explain the properties of fibers and important factor which affect the strength of composite material?		
Lesson Plan No. - 3	Topic - Properties of fibres	Source - Mechanics of composite Material by B.D. Agrawal,	CO No. -
Question : 3	What are the important properties require for the matrix to obtain strong composite material?		
Lesson Plan No. - 4	Topic - Properties of Matrix	Source - Mechanics of composite Material by B.D. Agrawal	CO No. -

4. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.	2
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Question : 4	Explain the manufacturing process with Clear Diagram. a) Hand lay up techniques
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Lesson Plan No. - 8	Topic - Hand lay up techniques	Source - Mechanics of composite Material by B.D. Agrawal	CO No. -
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Question : 5	Explain the manufacturing process with clear Diagram. a) Spray Lay up technique
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Lesson Plan No. - 9	Topic - Spray Lay up technique	Source - Mechanics of composite Material by B.D. Agrawal	CO No. -
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Question : 6	Explain the pultrusion manufacturing process with its limitation and its advantages.
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Lesson Plan No. - 10	Topic - Pultrusion manufacturing process	Source - Mechanics of composite Material by B.D. Agrawal	CO No. -
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Part C

FOR MIDTERM 1 - Part C: Total number of questions to be given are four (2 from CO1 and 2 from CO2), out of which student has to answer two (1 from CO1 and 1 from CO2).
FOR MIDTERM 2 - Part C: Total number of questions to be given are four (2 from CO3 and 2 from CO4), out of which student has to answer any two (1 from CO3 and 1 from CO4).
FOR MIDTERM 3 - Part C: Total number of questions to be given are four (2 from CO5 and 2 from CO6), out of which student has to answer any two (1 from CO5 and 1 from CO6).

5. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.	1
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Question : 1	What are the application of Composite Material for aircraft?
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Lesson Plan No. - 6	Topic - Application of Composite Material	Source - Mechanics of composite Material by B.D. Agrawal,	CO No. -
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Question : 2	Differentiate between the properties of Thermoplastic and Thermosetting resin?
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Lesson Plan No. - 3	Topic - Properties of Polymer	Source - Mechanics of composite Material by B.D. Agrawal	CO No. -
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6. CHOOSE COURSE OUTCOME (CO) NUMBER ACCORDING TO THE TYPE OF MIDTERM, AS PER INSTRUCTIONS ABOVE.	2
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Question : 3	Explain the fabrication process of ceramic matrix and its properties with diagram?
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Lesson Plan No. - 4	Topic - Ceramic Matrix	Source - Mechanics of composite Material by B.D. Agrawal	CO No. -
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Question : 4	Explain the manufacturing process for glass fiber and discuss types of glass fibers?
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Lesson Plan No. - 2	Topic - Manufacturing process for glass Fiber	Source - Mechanics of composite Material by B.D. Agrawal	CO No. -
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Upload Scanned Document In Case of Numerical or Diagram For Any of The Above Questions. *(Mention question number with relevant fig / numerical / equations. Max 150 KB)*

I have scrutinized the question paper. There is no spelling mistake or any type of irrelevant question.

Yes

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