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<td>Brief overview of the governing equations of fluid flow</td>
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| 05   | Digital Techniques | Quite- Mccluskey method | * Introduction to the method  
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<td>- Open mould method</td>
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B.Tech. Semester -6
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| 05   | Mechanics of composite materials |  | Manufacturing process part-II  
* Introduction  
* Explain various types of “closed mold methods in detail” |  |
| 06   | Mechanics of composite materials |  | Unidirectional composites  
* Introduction  
* Properties  
* Advantage/Disadvantage |  |
| 07   | Mechanics of composite materials |  | Properties of composites part-1  
* Explain the following for unidirectional composites  
* Volume Traction  
* Desity  
* Longitudinal strength & stifness  
* Factor affecting these properties |  |
| 08   | Mechanics of composite materials |  | Properties of composites part-2  
* Explain the following for unidirectional composites  
* Transverse strength & stifness  
* Shear modulus & strength  
* Poisson’s ratio |  |
| 09   | Mechanics of composite materials |  | Orthotropic lamina/composite  
* Introduction  
* Engineering constant & its relation with stiffness coefficients.  
* Strenght of orthotropic  
* Failure theories. |  |
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<td>* Lamination &amp; delamination</td>
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<td>* Properties like stress &amp; strain</td>
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<td>Properties of laminates</td>
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<td>* Explain the following regarding laminates</td>
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<td>* Isotropic analysis</td>
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<td>* Introduction</td>
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| 13   | Mechanics of composite materials | | Maintenance of composites  
  * Classification of damage  
  * Inspection  
  * Repair operation  
  * Repair procedure | | |
| 14   | Mechanics of composite materials | | Various structure & precautions  
  * Type of structure  
  - Laminate  
  - Honey comb  
  - Sandwich  
  * Light protection  
  * Painting of composites | | |
| 15   | Mechanics of composite materials | | Quality control, application & advantage of composite over metal& alloys | | |