



# Satuan Acara Pengajaran

ENMT800103 - Komposit Lanjut

Pengajar

*Wahyuaji Narottama Putra S.T., M.T.*

## Minggu 1

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<b>Materi</b>	SAP. Introduction. Tugas
<b>Media</b>	LCD. Laptop. Whiteboard
<b>Referensi</b>	Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981 Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993 Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999 Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994 Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997
<b>Aktivitas</b>	Lecture

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## Minggu 2

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<b>Materi</b>	Concept, definition & classification
<b>Media</b>	LCD, laptop, whiteboard

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**Referensi** Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas** Lecture

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### Minggu 3

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**Materi** Fiber reinforcement

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**Media** LCD, laptop, whiteboard

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**Referensi** Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas** Lecture

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### Minggu 4

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**Materi** Metal Matrix Composites

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**Media** LCD, laptop, whiteboard

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**Referensi** Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas** Lecture

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## Minggu 5

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**Materi** Polymer Matrix Composite

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**Media** LCD, laptop, whiteboard

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**Referensi** Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas** Lecture

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## Minggu 6

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**Materi** Ceramic Matrix Composites

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**Media** LCD, laptop, whiteboard

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**Referensi** Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas** Lecture

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## Minggu 7

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**Materi** Quiz

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**Media** LCD, laptop, whiteboard

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**Referensi** Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Mattew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas** Examination

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## Minggu 8

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**Materi** Mid Test

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**Media** LCD, laptop, whiteboard

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**Referensi** Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Mattew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas** Examination

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## Minggu 9

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**Materi** Rule of mixture

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**Media** LCD, laptop, whiteboard

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**Referensi** Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Mattew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas** Lecture

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## Minggu 10

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**Materi**      Mechanic of composite 1

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**Media**        LCD, laptop, whiteboard

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**Referensi**    Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Mattew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas**    Lecture

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## Minggu 11

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**Materi**        Mechanic of composite 2

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**Media**        LCD, laptop, whiteboard

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**Referensi**    Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Mattew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas**    Lecture

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## Minggu 12

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**Materi**        Nanocomposite

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**Media**        LCD, laptop, whiteboard

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**Referensi** Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas** Lecture

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### Minggu 13

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**Materi** Quiz

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**Media** LCD, laptop, whiteboard

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**Referensi** Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas** Examination

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### Minggu 14

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**Materi** Case study

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**Media** LCD, laptop, whiteboard

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**Referensi** Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas** Presentation

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## Minggu 15

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**Materi** Case study

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**Media** LCD, laptop, whiteboard

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**Referensi** Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas** Presentation

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## Minggu 16

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**Materi** Final test

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**Media** LCD, laptop, whiteboard

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**Referensi** Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981  
Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993  
Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999  
Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994  
Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997

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**Aktivitas** Examination

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