



Satuan Acara Pengajaran

MMM8210852 - Komposit

Pengajar

Prof. Dr. Ir. Anne Zulfia Syahrial, M.Sc.

Minggu 1

Materi Pengenalan SAP
Konsep, definisi dan klasifikasi komposit

Media LCD

Referensi 1. Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981
2. Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993

Aktivitas Kuliah dan Diskusi

Minggu 2

Materi Fiber dan matrix

Media LCD

Referensi 1. Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981
2. Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993

Aktivitas Kuliah dan diskusi

Minggu 3

Materi	Fabrikasi Komposit (MMC, CMC, PMC)
Media	LCD
Referensi	1. Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981 2. Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993
Aktivitas	Kuliah dan diskusi

Minggu 4

Materi	Lanjutan
Media	LCD
Referensi	1. Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981 2. Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993
Aktivitas	Kuliah dan presentasi

Minggu 5

Materi	Composites Interface
Media	LCD
Referensi	1. Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981 2. Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993
Aktivitas	Kuliah dan diskusi

Minggu 6

Materi	Rule of mixture, Teori antar muka, pembersihan
Media	LCD

- Referensi**
1. Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981
 2. Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993
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Aktivitas Kuliah dan diskusi

Minggu 7

Materi Latihan soal

Media LCD

- Referensi**
1. Hull, D., An Introduction to composite Materials, Cambridge Uni. Press, 1981
 2. Matthew, F.L. and R.D. Rawlings, Composite Materials: Engineering and Science, Chapman Hall, 1993
 3. Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999
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Aktivitas Diskusi kelompok

Minggu 8

Materi Presentasi Paper

Media LCD

Referensi JOURNAL

Aktivitas Seminar dan diskusi

Minggu 9

Materi Nature Fiber Composites (NFC), Nanocomposites

Media LCD

Referensi Journal

Aktivitas Kuliah dan diskusi

Minggu 10

Materi	Mekanika Komposit, aspek geometri dalam komposit
Media	LCD
Referensi	1. Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999 2. Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994 3. Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997
Aktivitas	Kuliah dan diskusi

Minggu 11

Materi	Lanjutan dan latihan soal
Media	LCD
Referensi	1. Bryan Harris, Engineering Composites Materials, 2nd Eddtion, Institute of Materials Communication Ltd, 1999 2. Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994 3. Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997
Aktivitas	Kuliah

Minggu 12

Materi	Lamina dan laminat, perilaku elastis, efek ujung serat
Media	LCD
Referensi	1. Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994 2. Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997
Aktivitas	Kuliah dan latihan soal

Minggu 13

Materi	Teori Laminat, kekuatan laminat
Media	LCD
Referensi	1. Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994 2. Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997
Aktivitas	Kuliah dan latihan soal

Minggu 14

Materi	Lanjutan dan Quiz
Media	LCD
Referensi	. Gibson R.F. Principle of Composites Materials Mecanics, Mc Graw Hill, 1994 2. Kaw, Autar K, Mechanics of Composites Materials, CRC, Press, New York, 1997
Aktivitas	Kuliah dan diskusi
