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 Introdution to composite Materials, Cambridge Uni. Press, 1981 2. Mattew, 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 Introdution to composite Materials, Cambridge Uni. Press, 1981 2. Mattew, 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 Introdution to composite Materials, Cambridge Uni. Press, 1981 2. Mattew, 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 Introdution to composite Materials, Cambridge Uni. Press, 1981 2. Mattew, 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 Introdution to composite Materials, Cambridge Uni. Press, 1981 2. Mattew, 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, pembasahan
Media	LCD

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

Minggu 7

Materi	Latihan soal
Media	LCD
Referensi	1. Hull, D., An Introdution to composite Materials, Cambridge Uni. Press, 1981 2. Mattew, 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
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