



# Satuan Acara Pengajaran

MTC82151 - Metalurgi Fisik

Pengajar

*Prof. Dr. Ir. Dedi Priadi DEA.*

*Prof. Dr. Ir. Muhammad Anis M.Met.*

## Minggu 1

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**Materi** - The structure and bonding of atoms

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**Media** Laptop and LCD

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**Referensi** Smallman, R.E. and Bishop, R.J., Modern Physical Metallurgy and Materials Engineering, 6th edition, Butterworth-Heinemann, 1999

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**Aktivitas**

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## Minggu 2

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**Materi** Atomic arrangements in materials

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**Media** Laptop and LCD

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**Referensi** Smallman, R.E. and Bishop, R.J., Modern Physical Metallurgy and Materials Engineering, 6th edition, Butterworth-Heinemann, 1999

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**Aktivitas**

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## Minggu 3

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**Materi** Principles and applications of phase diagrams

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**Media** Laptop dan LCD

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**Referensi** Smallman, R.E. and Bishop, R.J., Modern Physical Metallurgy and Materials Engineering, 6th edition, Butterworth-Heinemann, 1999

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**Aktivitas**

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Minggu 4

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**Materi** Defects in solids

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**Media** Laptop and LCD

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**Referensi** Smallman, R.E. and Bishop, R.J., Modern Physical Metallurgy and Materials Engineering, 6th edition, Butterworth-Heinemann, 1999

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**Aktivitas**

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Minggu 5

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**Materi** Mechanical behaviour of materials

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**Media** Laptop and LCD

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**Referensi** Smallman, R.E. and Bishop, R.J., Modern Physical Metallurgy and Materials Engineering, 6th edition, Butterworth-Heinemann, 1999

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**Aktivitas**

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Minggu 6

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**Materi** Strengthening and toughening

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**Media** Laptop and LCD

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**Referensi** Smallman, R.E. and Bishop, R.J., Modern Physical Metallurgy and Materials Engineering, 6th edition, Butterworth-Heinemann, 1999

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**Aktivitas**

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Minggu 7

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**Materi** UTS

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**Media** Kertas Ujian

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## Referensi

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## Aktivitas

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### Minggu 8

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**Materi** The physical properties of materials (1)

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**Media** Laptop and LCD

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**Referensi** Smallman, R.E. and Bishop, R.J., Modern Physical Metallurgy and Materials Engineering, 6th edition, Butterworth-Heinemann, 1999

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## Aktivitas

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### Minggu 9

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**Materi** The physical properties of materials (2)

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**Media** Laptop and LCD

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## Referensi

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## Aktivitas

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### Minggu 10

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**Materi** Ceramics and glasses

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**Media** Laptop and LCD

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**Referensi** Smallman, R.E. and Bishop, R.J., Modern Physical Metallurgy and Materials Engineering, 6th edition, Butterworth-Heinemann, 1999

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## Aktivitas

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### Minggu 11

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**Materi** Plastics and composites

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**Media** Laptop and LCD

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**Referensi** Smallman, R.E. and Bishop, R.J., Modern Physical Metallurgy and Materials Engineering, 6th edition, Butterworth-Heinemann, 1999

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**Aktivitas**

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## Minggu 12

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**Materi** Corrosion and surface engineering

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**Media** Laptop and LCD

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**Referensi** Smallman, R.E. and Bishop, R.J., Modern Physical Metallurgy and Materials Engineering, 6th edition, Butterworth-Heinemann, 1999

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**Aktivitas**

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## Minggu 13

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**Materi** Biomaterials

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**Media** Laptop and LCD

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**Referensi** Smallman, R.E. and Bishop, R.J., Modern Physical Metallurgy and Materials Engineering, 6th edition, Butterworth-Heinemann, 1999

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**Aktivitas**

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## Minggu 14

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**Materi** Materials for sports

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**Media** Laptop and LCD

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**Referensi** Smallman, R.E. and Bishop, R.J., Modern Physical Metallurgy and Materials Engineering, 6th edition, Butterworth-Heinemann, 1999

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**Aktivitas**

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## Minggu 15

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**Materi** UAS

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**Media** Kertas Ujian

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**Referensi**

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**Aktivitas**

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