



Satuan Acara Pengajaran

ENMT804923 - Manufaktur Lanjut Polimer

Pengajar

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Minggu 1

Materi ? Penjelasan SAP
 ? Kondisi industri plastik dunia dan Indonesia
 ? Pengantar material plastik dan pengetahuan dasar limbah plastik.

Media LCD proyektor

Referensi 1. John Peacey and Bill Davenport, The Iron Blast Furnace, Pergamon, 1979
 2. Geerdes et al, Modern Blast furnace Ironmaking, an Introduction, 2009
 3. A.Biswas, Principles of Blast Furnace Ironmaking, Theory and Practice, 1981
 4. Babich et al, iron Making, RWTH Aachen, 2008
 5. W.R. Irving: Continous Casting of Steels, Institute of Metals, 1993

Aktivitas kuliah mimbar

Minggu 2

Materi ? prinsip proses produksi polimer
 ? Prinsip formulasi polimer/plastik
 ? Pemilihan material plastik
 ? Sifat material plastik: mekanis dan termal

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- Referensi**
1. John Peacey and Bill Davenport, The Iron Blast Furnace, Pergamon, 1979
 2. Geerdes et al, Modern Blast furnace Ironmaking, an Introduction, 2009
 3. A.Biswas, Principles of Blast Furnace Ironmaking, Theory and Practice, 1981
 4. Babich et al, iron Making, RWTH Aachen, 2008
 5. W.R. Irving: Continous Casting of Steels, Institute of Metals, 1993
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Aktivitas kuliah mimbar

Minggu 3

- Materi**
- ? Reologi plastik
 - ? Standar keamanan produk plastik kemasan
 - ? Campuran polimer (Polymer blends)
 - ? Kriteria pencampuran plastik
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Media LCD proyektor

- Referensi**
1. John Peacey and Bill Davenport, The Iron Blast Furnace, Pergamon, 1979
 2. Geerdes et al, Modern Blast furnace Ironmaking, an Introduction, 2009
 3. A.Biswas, Principles of Blast Furnace Ironmaking, Theory and Practice, 1981
 4. Babich et al, iron Making, RWTH Aachen, 2008
 5. W.R. Irving: Continous Casting of Steels, Institute of Metals, 1993
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Minggu 4

- Materi**
- ? Definisi aditif.
 - ? Macam-macam aditif.
 - ? Kegunaan dari aditif.
 - ? Pertimbangan Cost dan pemilihan aditif.
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- Referensi**
1. John Peacey and Bill Davenport, The Iron Blast Furnace, Pergamon, 1979
 2. Geerdes et al, Modern Blast furnace Ironmaking, an Introduction, 2009
 3. A.Biswas, Principles of Blast Furnace Ironmaking, Theory and Practice, 1981
 4. Babich et al, iron Making, RWTH Aachen, 2008
 5. W.R. Irving: Continous Casting of Steels, Institute of Metals, 1993
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Aktivitas kuliah mimbar

Minggu 5

Materi ? Prinsip Pembentukan Plastik (manufaktur)
? Prinsip Injection Molding
? Prinsip Blow Injection Molding
? Prinsip extrusion
? Prinsip Rotational Molding
? Prinsip Plastic Forming

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Referensi 1. John Peacey and Bill Davenport, The Iron Blast Furnace, Pergamon, 1979
2. Geerdes et al, Modern Blast furnace Ironmaking, an Introduction, 2009
3. A.Biswas, Principles of Blast Furnace Ironmaking, Theory and Practice, 1981
4. Babich et al, iron Making, RWTH Aachen, 2008
5. W.R. Irving: Continous Casting of Steels, Institute of Metals, 1993

Aktivitas kuliah mimbar

Minggu 6

Materi ? tujuan dan proses finalisasi jenis produk polimer
? Proses finalisasi produk plastik
? Smoothing dan polishing, sawing and cutting, drilling, grinding dan sanding.

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Referensi 1. John Peacey and Bill Davenport, The Iron Blast Furnace, Pergamon, 1979
2. Geerdes et al, Modern Blast furnace Ironmaking, an Introduction, 2009
3. A.Biswas, Principles of Blast Furnace Ironmaking, Theory and Practice, 1981
4. Babich et al, iron Making, RWTH Aachen, 2008
5. W.R. Irving: Continous Casting of Steels, Institute of Metals, 1993

Aktivitas kuliah mimbar

Minggu 7

Materi ? Routing, milling & turning, tapping & threading, cleaning,
annealing, assembling, dan dekorasi.

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Referensi 1. John Peacey and Bill Davenport, The Iron Blast Furnace, Pergamon, 1979
2. Geerdes et al, Modern Blast furnace Ironmaking, an Introduction, 2009
3. A.Biswas, Principles of Blast Furnace Ironmaking, Theory and Practice, 1981
4. Babich et al, iron Making, RWTH Aachen, 2008
5. W.R. Irving: Continous Casting of Steels, Institute of Metals, 1993

Aktivitas kuliah mimbar

Minggu 8

Materi UTS

Media

Referensi

Aktivitas
