

00 Kontrak Perkuliahan

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**Gambaran Umum**

**Prasyarat Matakuliah**

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# KONTRAK PERKULIAHAN

Fenomena Perpindahan  
TK5352  
2 SKS

Rabu, 02 September 2009

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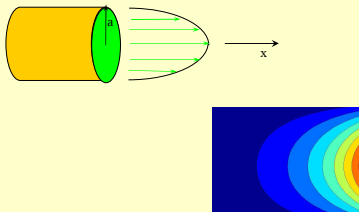
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mempelajari tentang konsep – konsep fundamental fenomena perpindahan momentum, panas, dan massa.



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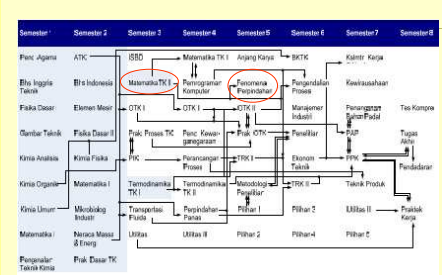
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1. Mampu menyusun persamaan matematis mikroskopis berbasis konsep fundamental transfer momentum.
2. Mampu menghitung nilai-nilai besaran-besaran teramati berbasis analisis mikroskopis
3. Mampu mengevaluasi nilai parameter-parameter makroskopis berbasis analisis mikroskopis.
4. Mampu menyusun persamaan matematis mikroskopis berbasis konsep fundamental transfer panas.
5. Mampu menghitung nilai-nilai besaran-besaran teramati berbasis analisis mikroskopis.
6. Mampu mengevaluasi nilai parameter-parameter makroskopis berbasis analisis mikroskopis.
7. Mampu menyusun persamaan matematis mikroskopis berbasis konsep fundamental transfer massa.
8. Mampu menghitung nilai-nilai besaran-besaran teramati berbasis analisis mikroskopis
9. Mampu mengevaluasi nilai parameter-parameter makroskopis berbasis analisis mikroskopis.

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- a. Hukum dasar transfer momentum.
- b. Analisis mikroskopis peristiwa sederhana berbasis konsep fundamental transfer momentum.
- c. Persamaan umum transfer momentum.
- d. Aliran turbulen.
- e. Koefisien gesekan.
- f. Hukum dasar transfer panas.
- g. Analisis mikroskopis peristiwa sederhana berbasis konsep fundamental transfer panas.
- h. Persamaan umum transfer energi.
- i. Transfer energi dengan sejumlah variabel bebas.
- j. Koefisien perpindahan panas.
- k. Hukum dasar transfer massa.
- l. Analisis mikroskopis peristiwa transfer massa sederhana.
- m. Koefisien transfer massa.

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1. Penilaian sistem kompetensi
2. Ada 9 kompetensi dikelompokkan menjadi 4 kelompok kompetensi
3. KKD 1 (KD 1 & 2); KKD 2 (KD 3); KKD 3 (KD 4, 5, 6); KKD 4 (KD 7, 8, 9)
4. Setiap selesai materi akan diadakan evaluasi (tugas/ kuis/ujian) terhadap kompetensi yang diperoleh mahasiswa
5. Mahasiswa **HARUS** mengerjakan setiap tugas/kuis/ujian dengan **MANDIRI** sebagai alat ukur kompetensi

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6. Pelanggaran terhadap aturan ini akan **merugikan mahasiswa sendiri**, karena kompetensinya tidak terukur dengan benar

7. Mahasiswa yang belum memenuhi kompetensi yang diharapkan pada setiap evaluasi akan diadakan 1 kali remediasi

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- Sistem penilaian → Penilaian Acuan Patokan
- Nilai akhir = nilai rata-rata kompetensi ( 4 kompetensi)
- Kehadiran kurang dari 75 % dari kegiatan perkuliahan terjadwal ( 12 x ) → nilai E
- Kuliah dimulai jam 07.00. toleransi 15 menit. Lebih dari 15 menit dilarang masuk
- Mahasiswa diharap mempersiapkan LCD sebelum kuliah dimulai
- Aturan – aturan lain mengacu pada peraturan Rektor dan Sistem Penjaminan Mutu Jurusan Teknik Kimia

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|        |               |                           |
|--------|---------------|---------------------------|
| Senin  | 13.00 – 14.40 | Inst. & PengPros VA       |
| Selasa | 12.00 – 13.40 | Inst. & PengPros VB       |
| Rabu   | 07.00 – 08.40 | Fenomena Perpindahan (R)  |
|        | 13.00 – 15.30 | MTK I (R, stlh mid)       |
| Kamis  | 10.00 – 12.30 | MTK I (NR, stlh mid)      |
|        | 14.00 – 15.40 | Fenomena Perpindahan (NR) |
| Jum'at | 07.30 – 11.30 | Prak. Komputer 1 (IB)     |

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- Blog : [adrian\\_nur.staff.uns.ac.id](http://adrian_nur.staff.uns.ac.id)
- Web tekkim : [www.tekkim.uns.ac.id](http://www.tekkim.uns.ac.id)
- Email : [adrian\\_nur@yahoo.com](mailto:adrian_nur@yahoo.com) (facebook)

Telp 0818-261-961    [adrian\\_nur@uns.ac.id](mailto:adrian_nur@uns.ac.id)

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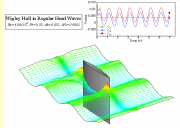


Figure 14.10: A ripple in a ripple tank. The diagram shows a wave pulse moving to the right, creating a ripple in the water surface. The ripple is shown as a series of concentric circles expanding outwards from the point of disturbance.

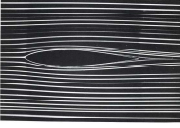


Figure 14.11: A ripple in a ripple tank. The diagram shows a wave pulse moving to the right, creating a ripple in the water surface. The ripple is shown as a series of concentric circles expanding outwards from the point of disturbance.

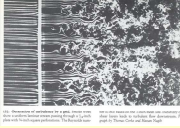


Figure 14.12: A ripple in a ripple tank. The diagram shows a wave pulse moving to the right, creating a ripple in the water surface. The ripple is shown as a series of concentric circles expanding outwards from the point of disturbance.

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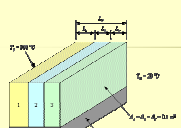


Figure 14.13: A ripple in a ripple tank. The diagram shows a wave pulse moving to the right, creating a ripple in the water surface. The ripple is shown as a series of concentric circles expanding outwards from the point of disturbance.

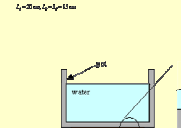


Figure 14.14: A ripple in a ripple tank. The diagram shows a wave pulse moving to the right, creating a ripple in the water surface. The ripple is shown as a series of concentric circles expanding outwards from the point of disturbance.

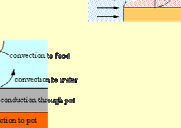


Figure 14.15: A ripple in a ripple tank. The diagram shows a wave pulse moving to the right, creating a ripple in the water surface. The ripple is shown as a series of concentric circles expanding outwards from the point of disturbance.

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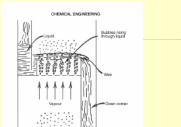


Figure 14.16: A ripple in a ripple tank. The diagram shows a wave pulse moving to the right, creating a ripple in the water surface. The ripple is shown as a series of concentric circles expanding outwards from the point of disturbance.



Figure 14.17: A ripple in a ripple tank. The diagram shows a wave pulse moving to the right, creating a ripple in the water surface. The ripple is shown as a series of concentric circles expanding outwards from the point of disturbance.

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