



# Satuan Acara Pengajaran

SCBI603226 - Plantonologi

Pengajar

*Drs. Wisnu Wardhana M.Si.*

## Tujuan Perkuliahan

Mahasiswa dapat mengetahui keanekaragaman plankton, peran dan kedudukan plankton dalam ekosistem perairan, dan mampu menerapkan berbagai metoda pencuplikan, pencacahan, dan pengawetan plankton.

## Minggu 1

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**Materi** Ruang lingkup, terminologi & pengelompokan organisme planktonik.

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**Media** Tranparan sheet, lap top & LCD (media power point)

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**Referensi**

1. Davis, C.C. 1955. The marine and fresh water plankton. Michigan State Univ. Press, Chicago: xi + 562 hlm.
2. Newell, G.E. & R.C. Newell. 1977. Marine plankton. A practical guide. Hutchinson & Co. (Pub.) Ltd., London: 244 hlm.
3. Sachlan, M. 1982. Planktonologi. Faperikan UNDIP, Semarang: 117 hlm.

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## Aktivitas

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## Minggu 2

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**Materi** Peranan plankton dalam ekosistem perairan.

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**Media** Tranparan sheet, lap top & LCD (media power point)

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**Referensi**

1. Davis, C.C. 1955. The marine and fresh water plankton. Michigan State Univ. Press, Chicago: xi + 562 hlm.
2. Sachlan, M. 1982. Planktonologi. Faperikan UNDIP, Semarang: 117 hlm.

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**Aktivitas** Tatap muka dan diskusi

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### Minggu 3

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**Materi** Kelimpahan & distribusi plankton.

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**Media** Tranparan sheet, lap top & LCD

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**Referensi** 1. Davis, C.C. 1955. The marine and fresh water plankton. Michigan State Univ. Press, Chicago: xi + 562 hlm.  
2. Wicktead, J.H. 1965. An introduction to the study of tropical plankton. Hutchinson & Co. (Pub.) Ltd., London: 160 hlm.

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**Aktivitas** Tatap muka & diskusi

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### Minggu 4

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**Materi** Faktor lingkungan & faktor pembatas.

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**Media** Tranparan sheet, lap top & LCD

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**Referensi** 1. Boney, A.D. 1989. Phytoplankton. Edward Arnold, London: vii + 116 hlm.  
2. Davis, C.C. 1955. The marine and fresh water plankton. Michigan State Univ. Press, Chicago: xi + 562 hlm.  
3. Newell, G.E. & R.C. Newell. 1977. Marine plankton. A practical guide.  
4. Wicktead, J.H. 1965. An introduction to the study of tropical plankton. Hutchinson & Co. (Pub.) Ltd., London: 160 hlm.

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**Aktivitas** Tatap muka & diskusi

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### Minggu 5

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**Materi** Adaptasi plankton terhadap lingkungan

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**Media** Tranparan sheet, lap top & LCD

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**Referensi** 1. Davis, C.C. 1955. The marine and fresh water plankton. Michigan State Univ. Press, Chicago: xi + 562 hlm.  
2. Romimohtarto, K & S. Juwana. 2004. Meroplankton laut. Penerbit Djambatan, Jakarta: ix + 214 pp.

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**Aktivitas** Tatap muka & diskusi

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## Minggu 6

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**Materi** Peran plankton dalam kehidupan manusia.

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**Media** Tranparan sheet, lap top & LCD

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**Referensi** Davis, C.C. 1955. The marine and fresh water plankton. Michigan State Univ. Press, Chicago: xi + 562 hlm.

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**Aktivitas** Tatap muka & diskusi

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## Minggu 7

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**Materi** Plankton sebagai indikator cemaran perairan.

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**Media** Tranparan sheet, lap top & LCD

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**Referensi**

1. Davis, C.C. 1955. The marine and fresh water plankton. Michigan State Univ. Press, Chicago: xi + 562 hlm.
2. Romimohtarto, K & S. Juwana. 2004. Meroplankton laut. Penerbit Djambatan, Jakarta: ix + 214 pp.
3. Sachlan, M. 1982. Planktonologi. Faperikan UNDIP, Semarang: 117 hlm.

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**Aktivitas** Tatap muka & diskusi

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## Minggu 8

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**Materi** Ujian Tengah Semester

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**Media** Lembar soal & jawaban

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**Referensi**

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**Aktivitas** Ujian tulis

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## Minggu 9

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**Materi** Keanekaragaman fitoplankton

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**Media** Tranparan sheet, lap top & LCD

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- Referensi**
1. Boney, A.D. 1989. Phytoplankton. Edward Arnold, London: vii + 116 hlm.
  2. Davis, C.C. 1955. The marine and fresh water plankton. Michigan State Univ. Press, Chicago: xi + 562 hlm.
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**Aktivitas** Tatap muka & diskusi

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## Minggu 10

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**Materi** Keanekaragaman zooplankton(holoplankton).

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**Media** Tranparan sheet, lap top & LCD

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- Referensi**
1. Davis, C.C. 1955. The marine and fresh water plankton. Michigan State Univ. Press, Chicago: xi + 562 hlm.
  2. Wicktead, J.H. 1965. An introduction to the study of tropical plankton. Hutchinson & Co. (Pub.) Ltd., London: 160 hlm.
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**Aktivitas** Tatap muka & diskusi

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## Minggu 11

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**Materi** Keanekaragaman zooplankton(meroplankton).

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**Media** Tranparan sheet, lap top & LCD

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- Referensi**
1. Davis, C.C. 1955. The marine and fresh water plankton. Michigan State Univ. Press, Chicago: xi + 562 hlm.
  2. Romimohtarto, K & S. Juwana. 2004. Meroplankton laut. Penerbit Djambatan, Jakarta: ix + 214 pp.
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**Aktivitas** Tatap muka & diskusi

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## Minggu 12

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**Materi** Teknik pencuplikan, pencacahan, & pengawetan plankton

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**Media** Tranparan sheet, lap top & LCD

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- Referensi**
1. Newell, G.E. & R.C. Newell. 1977. Marine plankton. A practical guide. Hutchinson & Co. (Pub.) Ltd., London: 244 hlm.
  2. Wicktead, J.H. 1965. An introduction to the study of tropical plankton. Hutchinson & Co. (Pub.) Ltd., London: 160 hlm.
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**Aktivitas** Tatap muka & diskusi

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## Minggu 13

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<b>Materi</b>	Analisis data plankton.
<b>Media</b>	Sampel plankton, peralatan cacah, mikroskop, lembar kerja & buku kunci
<b>Referensi</b>	1. Newell, G.E. & R.C. Newell. 1977. Marine plankton. A practical guide. Hutchinson & Co. (Pub.) Ltd., London: 244 hlm. 2. Romimohtarto, K & S. Juwana. 2004. Meroplankton laut. Penerbit Djambatan, Jakarta: ix + 214 pp. 3. Wicktead, J.H. 1965. An introduction to the study of tropical plankton. Hutchinson & Co. (Pub.) Ltd., London: 160 hlm.
<b>Aktivitas</b>	Praktik laboratorium

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## Minggu 14

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<b>Materi</b>	Praktik lapangan: Pencuplikan & pengawetan plankton.
<b>Media</b>	Planktonet, botol sampel, pengawet, kertas label, GPS & alat tulis.
<b>Referensi</b>	1. Newell, G.E. & R.C. Newell. 1977. Marine plankton. A practical guide. Hutchinson & Co. (Pub.) Ltd., London: 244 hlm. 2. Wicktead, J.H. 1965. An introduction to the study of tropical plankton. Hutchinson & Co. (Pub.) Ltd., London: 160 hlm.
<b>Aktivitas</b>	Praktik Lapangan

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## Minggu 15

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<b>Materi</b>	Praktik laboratorium: pencacahan, identifikasi & analisis plankton.
<b>Media</b>	Sampel plankton, hand tally counter, pipet stampel. sedgwich rafter cell, bogorov counting chamber,object & cover glass, pipet, gelas ukur, mikroskop, lembar kerja, buku kunci identifikasi,
<b>Referensi</b>	1. Newell, G.E. & R.C. Newell. 1977. Marine plankton. A practical guide. Hutchinson & Co. (Pub.) Ltd., London: 244 hlm. 2. Romimohtarto, K & S. Juwana. 2004. Meroplankton laut. Penerbit Djambatan, Jakarta: ix + 214 pp. 3. Wicktead, J.H. 1965. An introduction to the study of tropical plankton. Hutchinson & Co. (Pub.) Ltd., London: 160 hlm.
<b>Aktivitas</b>	Praktik Laboratorium

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## Minggu 16

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**Materi** Ujian Akhir Semester

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**Media** Lembar soal & jawaban

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**Referensi**

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**Aktivitas** Ujian tulis

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