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| logo UEU kecil | |  | | | | | | | | |
|  | | **RENCANA PEMBELAJARAN SEMESTER GANJIL 2018/2019** | | | | | | | | |
|  | | **PROGRAM STUDI BIOTEKNOLOGI FAKULTAS ILMU-ILMU KESEHATAN** | | | | | | | | |
|  | | **UNIVERSITAS ESA UNGGUL** | | | | | | | | |
|  | | | | | | | | | | |
| **Mata kuliah** | | | **:** | DNA Forensik | | | **Kode MK** | | **:** | IBK 582 |
| **Mata kuliah prasyarat** | | | **:** | - | | | **Bobot MK** | | **:** | 2 SKS |
| **Dosen Pengampu** | | | **:** | Titta Novianti | | | **Kode Dosen** | | **:** |  |
| **Alokasi Waktu** | | | **:** |  | | | | | | |
| **Capaian Pembelajaran** | | | **:** | **Kompetensi Utama** : Mampu memahami, menjelaskan pengertian Foensik, peranan Bioteknologi dalam Forensik serta aplikasi Bioteknologi untuk kemajuan di bidang Forensik  **Subkompetensi (Capaian Pembelajaran Penunjang)**  Mampu menjelaskan sejarah dan pengertian Forensik  Mampu mendemostrasikan teknologi Bioteknologi dalam pnerapan keilmuan Bioteknologi | | | | | | |
|  | | |  |  | | | | | | |
| SESI | KEMAMPUAN  AKHIR | | MATERI  PEMBELAJARAN | | BENTUK PEMBELAJARAN | SUMBER  PEMBELAJARAN | | INDIKATOR  PENILAIAN | | |
| 1 | Mampu menjelasakan sejarah Forensik serta mampu mendefinisikan pengertian Forensik dan perkemabang Forensik di Indonesia dan dunia | | Sejarah Foensik  Pengertian Forensik  Perkembangan Forensik di Indonesia dam dunia | | 1. Ceramah 2. Small grup discussion 3. Post test | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman[Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1. Keaktifan berdiskusi 2. Hasil post test | | |
| 2 | Mampu memahami serta menjelaskan ruang lingkup keilmuan Forensik | | Ruang lingkup keilmuan terkait Forensik | | 1. Pre test 2. Ceramah 3. Small grup discussion 4. Presentasi | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman  1. [Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1. Keaktifan berdiskusi 2. Hasil pre test 3. Penguasaan materi saat presentasi | | |
| 3 | Mampu menjelaskan dan mendefiniskan ruang lingkup Biologi Forensik dan DNA Forensik | | Ruang lingkup Biologi Forensik dan DNA Forensik | | 1. Presentasi 2. Role play | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman  1. [Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1. Keaktifan diskusi 2. Kemampuan berdiskusi dan menjawab | | |
| SESI | KEMAMPUAN  AKHIR | | MATERI  PEMBELAJARAN | | BENTUK PEMBELAJARAN | SUMBER  PEMBELAJARAN | | INDIKATOR  PENILAIAN | | |
| 4 | Mampu menjelaskan dan mendefinisikan pengertian dan aplilkasi DNA forensic | | Pengertian dan aplikasi DNA Forensik | | 1. Presentasi 2. Role play | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman  1. [Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1.Keaktifan berdiskusi  2. Hasil post test  3. Penguasaan materi dan cara penyampaian | | |
| 5 | Mampu menjelaskan Teknik pengambilan sampel dan Handling Laboratorium | | Teknik pengambilan sampel untuk Forensik dan isolasi DNA di laboratorium | | 1. Presentasi 2. Role play | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman  1. [Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1. Keaktifan berdiskusi  2. Penguasaan materi saat role play | | |
| 6 | Mampu menjelaskan dan menerapkan Metode analisis DNA forensik | | Berbagai metoda analisis DNA dan berbagai kasus yang akan diteliti | | 1. Presentasi 2. Role play 3. Small group discussion | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman  1. [Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1. Keaktifan berdiskusi  2. Penguasaan materi | | |
| 7 | Mampu menjelaskan dan menerapkan Analisis DNA forensik berdasarkan SNP | | Analisis DNA forensik | | 1. Ceramah 2. Role play 3. Post test | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman  1. [Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1. Keaktifan berdiskusi  2. Hasil post test | | |
| 8 | Mampu menjelaskan dan menerapkan Analisis DNA forensik berdasarkan DNA barcode | | DNA Forensik berdasarkan barcode | | 1. Role play 2. Small group discussion 3. Presentasi | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman  1. [Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1. Keaktifan berdiskusi  2. Hasil post test | | |
| 9 | Mampu menjelaskan dan mendemostrasikan Analisis DNA forensik berdasarkan STR dan VNTR | | Analisis DNA forensik berdasarkan STR dan VNTR | | 1. Role play 2. Small group discussion 3. Presentasi | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman  1. [Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1. Keaktifan berdiskusi  2. Hasil post test | | |
| 10 | Mampu menjelaskan dan menerapkan Case Study | | Case Study | | 1. Presentasi 2. Role play 3. Small group discussion | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman  1. [Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1. Keaktifan berdiskusi  2. Hasil post test | | |
| 11 | Mampu menjelaskan dan mendemonstrasikan Kunjungan Ke Institusi | | Kunjungan Ke Institusi | | 1. Presentasi 2. Role play 3. Small group discussion | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman  1. [Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1. Keaktifan berdiskusi  2. Hasil post test | | |
| 12 | Mampu menjelaskan dan mendemonstrasikan Kunjungan Ke Institusi | | Kunjungan Ke Institusi | | 1. Presentasi 2. Role play 3. Small group discussion | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman  1. [Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1. Keaktifan berdiskusi  2. Hasil post test | | |
| 13 | Mampu menjelaskan Presentasi | | presentasi | | 1. Presentasi 2. Role play 3. Small group discussion | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman  1. [Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1. Keaktifan berdiskusi  2. Hasil post test | | |
| 14 | Mampu menjelaskan dan mengaitkan  Presentasi Case Study | | Presentasi Case Study | | 1. Praktek pengamatan sel | 1. Cooper. 2001. The cell a molecular approcah. 2nd ed. ASM Press, Washington  [Harvey Lodish,Arnold Berk,Lawrence Zipursky,Paul Matsudaira,David Baltimore,James Darnell](javascript:submitGeneralSearchByAuthorAndPublisher('Harvey%20Lodish,Arnold%20Berk,Lawrence%20Zipursky,Paul%20Matsudaira,David%20Baltimore,James%20Darnell','AUTHOR');). W. H. Freeman  1. [Channarayappa](http://bookpecker.com/index.php?main_page=index&book_authors_id=6325&typefilter=book_authors&zenid=4g6mdcunjtcei0uku8ogoo4ql6). Cell Biology. Universities Press. | | 1. Keaktifan berdiskusi  2. Hasil post test | | |

**Jakarta,**

**Mengetahui,**

**Ketua Program Studi, Dosen Pengampu,**

**Dr. Titta Novianti, S.Si., M. Biomed. Raka Swastika, M.Si.**

**EVALUASI PEMBELAJARAN**

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| **SESI** | **PROSE-DUR** | **BEN-TUK** | **SEKOR > 77**  **( A / A-)** | **SEKOR > 65**  **(B- / B / B+ )** | **SEKOR > 60**  **(C / C+ )** | **SEKOR > 45**  **( D )** | **SEKOR < 45**  **( E )** | **BOBOT** |
| 1 | Kuis | Tertulis | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |
| 2 | Diskusi kelompok | Tertulis | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |
| 3 | Diskusi kelompok | Berdebat | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |
| 4 | Kuis | Tertulis | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |
| **SESI** |  |  |  |  |  |  |  |  |
| 5 | Kuis | Tanya jawab | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |
| 6 | Kuis | Tertulis | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |
| 7 | Kuis | Tertulis | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |
| 8 | Kuis | Tertulis | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |
| 9 | Kuis | Tertulis | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |
| 10 | Kuis | Tertulis | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |
| 11 | Kuis | Tertulis | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |
| 12 | Kuis | Tertulis | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |
| 13 | Kuis | Tertulis | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |
| 14 | Kuis | Tertulis | Mampu menjawab setiap pertanyaan | Menjawab 50 % | Menjawab 40-50 % | Menjawab 30-40% | Menjawab < 40 % |  |

**Jakarta, 26 Oktober 2018**

**Mengetahui,**

**Ketua Program Studi, Dosen Pengampu,**

**Dr. Titta Novianti, S.Si., M. Biomed. Raka Swastika, M.Si.**