

## Technical Drawing DESCRIPTION OF COURSE UNIT

Program Studi Sarjana (S1) Desain Produk Bachelor of Industrial Design (BOID) 2018-2023

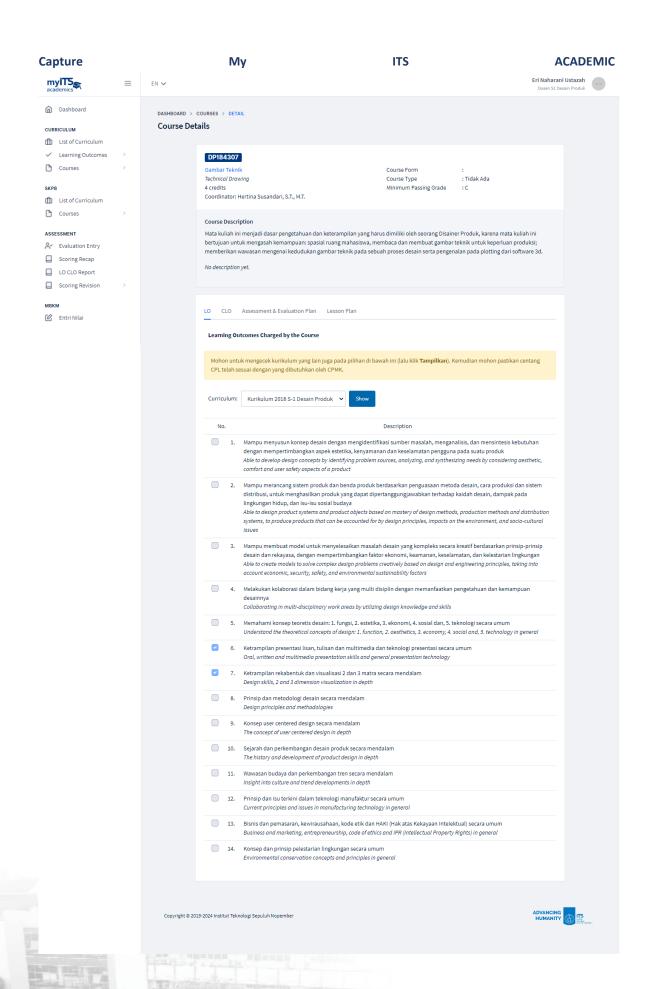


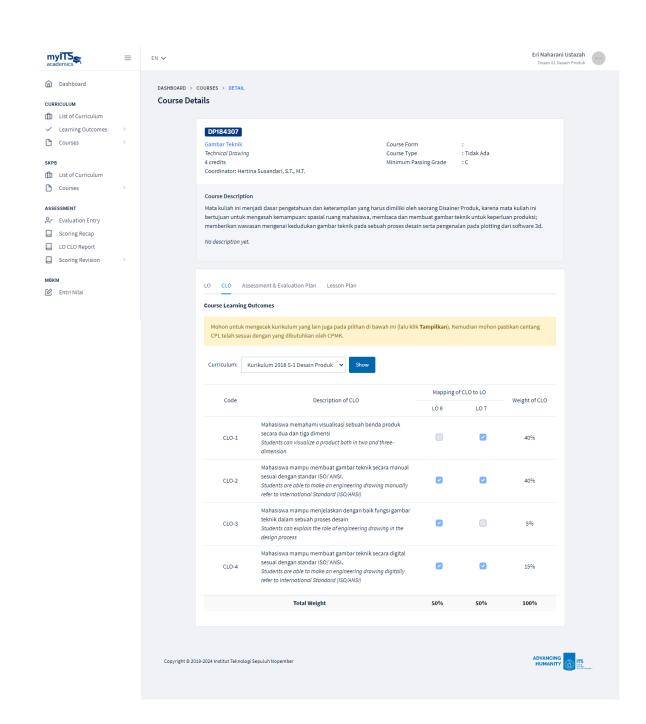
## <u>Description of Course Unit</u> according to the ECTS User's Guide 2015

| Course unit title  | Technical Drawing   |  |  |  |  |
|--|---|--|--|--|--|
| Course unit code   | DP184307  |  |  |  |  |
| Type of course unit  | Compulsory  |  |  |  |  |
| Level of course unit   | First cycle Bachelor  |  |  |  |  |
| Year of study when the course unit is delivered  | 2 <sup>nd</sup> year  |  |  |  |  |
| Semester/trimester when the course unit is delivered   | 3 <sup>rd</sup> semester  |  |  |  |  |
| Number of ECTS credits allocated   | 6,4 ECTS Credits  |  |  |  |  |
| Name of lecturer   | Hertina Susandari, S.T., M.T.   |  |  |  |  |
| Learning outcomes of the course unit  Mode of delivery   | <ol> <li>Students can visualize a product both in two and three-dimension</li> <li>Students are able to make an engineering drawing manually refer to International Standard (ISO/ANSI)</li> <li>Students can explain the role of engineering drawing in the design process</li> <li>Students are able to make an engineering drawing digitally refer to International Standard (ISO/ANSI)</li> </ol> |  |  |  |  |
| iviode of delivery   | Idoe-to-idoe  |  |  |  |  |
| Prerequisites and co-requisites  | -   |  |  |  |  |
| Course content   | This course serves as the foundation for knowledge and skills that a Product Designer must possess. The aim of this course is to sharpen students' spatial abilities, enable them to read and create production-ready product drawings, provide insights into the role of technical drawings in the design process, and introduce them to rapid prototyping.  |  |  |  |  |
|  | <ol> <li>Compound projections and auxiliary views</li> <li>Single-view projections</li> <li>Sections</li> <li>Detail drawings</li> <li>Dimension notations and hatching</li> <li>Exploded views</li> </ol>  |  |  |  |  |
| 100 Page 100 | 7) Component drawings   |  |  |  |  |

|  | 8) Material specifications 9) CAD and rapid prototyping   |
|--|---|
| Recommended or required reading and other learning resources/tools | <ul> <li>Bertoline, Gary R, 2002, Introduction to Graphic Communications for Engineers, Edisi ke-2, Mc Graw Hill, New York</li> <li>Giesecke, Frederick E, 2001, Gambar Teknik (Jilid 1), Penerbit Erlangga, Jakarta</li> <li>Giesecke, Frederick E, 2001, Gambar Teknik (Jilid 2), Penerbit Erlangga, Jakarta</li> </ul> |
| Planned learning activities and teaching methods                   | Discovery Learning; Project Based Learning; Team<br>Based Learning  |
| Language of instruction  | Indonesia   |
| Assessment methods and criteria                                    | Assignment, Project, Midterm Evaluation and Final Evaluation  |

© FIBAA – December 2020





n Dashboard

CURRICULUM

List of Curriculum

✓ Learning Outcomes >

Courses

List of Curriculum

Courses

ASSESSMENT

A Evaluation Entry Scoring Recap

LO CLO Report

Scoring Revision

Entri Nilai

DASHBOARD > COURSES > DETAIL

Course Details

DP184307

Technical Drawing

Coordinator: Hertina Susandari, S.T., M.T.

Course Type Minimum Passing Grade

Course Form

: Tidak Ada

Course Description

Mata kuliah ini menjadi dasar pengetahuan dan keterampilan yang harus dimiliki oleh seorang Disainer Produk, karena mata kuliah ini bertujuan untuk mengasah kemampuan: spasial ruang mahasiswa, membaca dan membuat gambar teknik untuk keperluan produksi; memberikan wawasan mengenai kedudukan gambar teknik pada sebuah proses desain serta pengenalan pada plotting dari software 3d.

LO CLO Assessment & Evaluation Plan Lesson Plan

Assessment & Evaluation Plan

| No. | Evaluation Plan   | CLO-1 | CLO-2 | CLO-3 | CLO-4 | Total<br>Weight |  |
|-----|---|-------|-------|-------|-------|-----------------|--|
| 1   | Proyeksi Majemuk<br>Multiview Projection<br>Kognitif - Tugas   Cognitive -<br>Assignment                      | 7%    | 7%    | 0%    | 096   | 14%             |  |
| 2   | Gambar Potongan<br>Section Drawing<br>Kognitif - Tugas   Cognitive -<br>Assignment                            | 7%    | 7%    | 0%    | 096   | 14%             |  |
| 3   | Gambar Piktorial<br>Pictorial Drawing<br>Hasil proyek   Team-based Project                                    | 2%    | 2%    | 1%    | 096   | 5%              |  |
| 4   | Evaluasi Tengah Semester<br>Midterm Examination<br>Kognitif - UTS   Cognitive -<br>Midterm Exam               | 10%   | 1096  | 0%    | 096   | 20%             |  |
| 5   | Gambar Kerja Produk Furnitur<br>Technical Drawing - Furniture<br>Product<br>Hasil proyek   Team-based Project | 9%    | 1496  | 4%    | 096   | 27%             |  |
| 6   | Tugas Besar<br>Final Exam<br>Hasil proyek   Team-based Project  | 5%    | 0%    | 0%    | 15%   | 20%             |  |
|     | TOTAL   | 40%   | 40%   | 5%    | 15%   | 100%            |  |

Copyright @ 2019-2024 Institut Teknologi Sepuluh Nopember



