



FACULTY OF OCEAN ENGINEERING TECHNOLOGY AND INFORMATICS

Course Information



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| 1 | Course Name: | Computer Aided Geometric Design / Rekabentuk Geometri Berbantu Komputer | | | | |
| | Course Code: | MKG4113 | | | | |
| | Course Classification: | Elective (core) | Remarks: | | | |
| 2 | Synopsis: | This course discusses the principles of geometric modeling focusing on Bezier and B-Splines curves and surfaces. Clear comprehension of the underlying mathematics of curve and surface design may prepare the students to explore various applications such as scientific visualization, manufacturing design and computer graphics. | | | | |
| 3 | Name(s) of Academic Staff: | 1 | Associate Prof. Dr. Gobithaasan Rudrusamy | | | |
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| 4 | Semester and Year offered: | Year Offered | 3 | Semester | 1 | Remarks: |
| 5 | Credit Value: | 3 | 2+1 | | | |
| 6 | Pre-requisite/ co-requisite (if any): | None | | | | |
| 7 | At the end of the course, student should be able to: | | | | | |
| | Course Learning Outcomes (CLO) | CLO1 | Identify the methods of modeling curves and surfaces in the field of computer-aided geometric design. [PLO3-C4] | | | |
| | | CLO2 | Build curves and surfaces using standard Bezier and B-spline functions using scientific programming language. [PLO2-P3] | | | |
| | | CLO3 | Explain about ethics and professionalism in the field of curve and surface modelling. [PLO6-A4] | | | |
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