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| Date: | Examination No.: | Version:1/9/2019 | Start: 2/2/2020 |
| **Module Name - Code** | Calculus I - 6106 | | |
| **Module Language:** | English | | |
| **Responsible:** | Mr. Wali Ali Abdulla/ MSc | | |
| **Lecture (s):** | Mr. Wali Ali Abdulla/ MSc | | |
| **College:** | College of Engineering – Salahaddin University | | |
| **Duration:** | 15 week – 1 semester - Requested | | |
| **Course outcomes:** | 1.To introduce to student higher order derivatives of various standard functions  2.      To introduce to student the expansion of functions about any point and to evaluate the indeterminate forms of limits. 3.      To introduce to student hyperbolic functions and its application | | |
| **Course Content:** | The course starts with the review of the main principle of mathematics, application of derivatives with different application of definite integrals such as areas of non-geometric shapes and volumes that can be interface to engineers requirement in life especial for the major | | |
| **Literature:** | Thomas G.B, calculus 2008. Revised by Maurice D. weir, Joel Hass and Frank R. Giordano. Pearson Education, Inc., 11th Edition.  Thomas G.B, calculus 2010. Revised by Maurice D. weir, Joel Hass and Frank R. Giordano. Pearson Education, Inc., 12th Edition.  Calculus one variable. 9th Edition 2003.By Salas Hille.  Calculus and Analytic Geometry 2003 by R. Finney and G. Thomas: 10th Edition. | | |
| **Type of Teaching:** | 3 hrs in lectures theory  1 hrs Tutorial | | |
| **Pre-requisites:** | Yes | | |
| **Frequency:** | 1st semester | | |
| **Requirements for credit points:** | For the award of credit points it is necessary to pass the module exam.  The exam contains:  Mid Exam  Homework  Quize  Final Exam | | |
| **Credit point:** | 6 | | |
| **Grade Distribution:** | The Grade is generated from the examination result(s) with the following  20% Mid Exam  10% Home work  10% Quiz  60% Final Exam | | |
| **Work load:** | The workload is 60hr. It is the result of 50% attendance and 50% self studies. | | |