**MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY, JAMSHORO.**

FRM-001/00/QSP-004

Dec. 01, 2001

**TENTATIVE TEACHING PLAN**

DEPARTMENT / INSTITUTE / DIRECTORATE:  **BSRS**

**(From To )**

**Name of Teacher**: Prof. Dr. Muhammad Anwar Solnagi

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| --- | --- | --- |
| **Subject**: APPLIED CALCULUS |  **Batch**: 14CH | **Year**: 1st **Semester**: 1st |
| **Code: MTH 102 ( 03 + 00) Starting Date**: 01-11-2016 |  | **Term Suspension Date**: 27-03-2017 |

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| **S. #** | **Topic** | **No. of lecture/ hours required** |
| 01 | Introduction to syllabus. | 01 |
| 02 | Functions; Type of functions and their graphs. | 02 |
| 03 | Limits; theorems of limit and their applications. | 02 |
| 04 | Left and right hand limits. | 02 |
| 05 | Continuous and discontinuous functions. | 02 |
| 06 | Derivatives; geometrical and physical meaning of derivatives. | 01 |
| 07 | Rules of derivatives with applications. | 02 |
| 08 | Higher derivatives; Leibnitz’s theorem. | 03 |
| 09 | Rolle’s theorem. Mean value theorem. | 01 |
| 10 | Taylor’s and Maclaurins series. | 01 |
| 11 | Indeterminant forms of limit. Evaluation of limit by using L’Hospital rule. | 03 |
| 12 | Application of limits; asymptotes | 01 |
| **Total Lecture Hours** | **21** |

**Signature of Teacher: Date:**

**Remarks of DMRC:**

**Signature of Chairman / Director: Date:**