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|  | | **ITER, SIKSHA ‘O’ ANUSANDHAN (Deemed to be University)** | | | | | **END**  **SEMESTER** | |
| Branch | |  | | Programme | | | **B.Tech.** | |
| Course Name | | **INTRODUCTORY GRAPH THEORY** | | Semester | | | **II** | |
| Course Code | | **CSE 1004** | | Year/Period | | | **2019 Even** | |
| Time: 02 Hrs | | **Answer All Questions** | | Maximum Marks | | | **60** | |
| Learning Level (LL) | | **L1**: Remembering | **L3:** Applying | | **L5**: Evaluating | | | |
| **L2**: Understanding | **L4**: Analysing | | **L6**: Creating | | | |
| **Each Question Carry 06 Marks from 1 to 10** | | | | | | | | |
| **Q’s** | **Questions** | | | | | COs | | LL |
| **1** |  | | | | | **CO2** | | **L2** |
| **2** |  | | | | | **CO2** | | **L2** |
| **3** |  | | | | | **CO2** | | **L2** |
| **4** |  | | | | | **CO2** | | **L3** |
| **5** |  | | | | | **CO2** | | **L3** |
| **6** |  | | | | | **CO3** | | **L3** |
| **7** |  | | | | | **CO2** | | **L3** |
| **8** |  | | | | | **CO2** | | **L3** |
| **09** |  | | | | | **CO2** | | **L3** |
| **10** |  | | | | | **CO2** | | **L3** |
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**Note:**

1. End Semester Exam carry weightage of **45 marks out of 100**
2. End Semester was conducted through online platform.
3. All the course outcomes were covered.

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| Course Outcomes | CO1 | Able to model the physical systems using differential equations and its validation through simulation. |
| CO2 | Able to develop the transfer function, state-space, and block diagram/ signal flow graph model of electrical/ electronic /electro-mechanical systems. |
| CO3 | Able to analyse the system response and the effects on parametric variation with respect to non-linearities. |
| CO4 | Able to analyse the absolute/relative stability of a given control system by using Routh Hurwitz Criterion. |
| CO5 | Able to determine stability parameters of a given system using time and frequency domain techniques. |
| CO6 | Able to design PI/PD/PID controller to improve both the steady state error and transient response and validate through simulation. |