DRONACHARYA

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: Applied Sciences ad Humanities

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code:MATH-102-F(MATHEMATICS-II)

Name of Faculty with designation : Dr. Jyoti Anand, Assistant Professor

| Month | Date & Day | Sem-Class | Unit | Topic/Chapter covered | Academic activity | Test / assignment |
|---------|----------------------|-------------|------|--|----------------------|------------------------------|
| January | 08.01.2018 Monday | II-IT & ECS | 2 | Exact Differential Equations. | | Assignment of 02 Ques. given |
| January | 10.01.2018 Wednesday | II-IT & ECS | 2 | Equations reducible to exact differential equation. | | Assignment of 02 Ques. given |
| January | 11.01.2018 Thursday | II-IT & ECS | 2 | Equations reducible to exact differential equation. | | Assignment of 02 Ques. given |
| January | 12.01.2018 Friday | II-IT & ECS | | Application of differential equation in R.L.series circuit.Application in Newton's law of cooling | | Assignment of 02 Ques. given |
| January | 15.01.2018 Monday | II-IT & ECS | 2 | Application to Heat flow. Orthogonal trajectories. | | Assignment of 02 Ques. given |
| January | 17.01.2018 Wednesday | II-IT & ECS | | Linear diff. Eq. of second & higher order. Rules for finding the complementary function. | | Assignment of 02 Ques. given |
| January | 18.01.2018 Thursday | II-IT & ECS | 2 | Complementary f ⁿ and particular integral. | | Assignment of 02 Ques. given |
| January | 19.01.2018 Friday | II-IT & ECS | | Method of variation of Parameters to find Particular integral. Cauchy's Homogeneous differential equation. | | Assignment of 02 Ques. given |
| January | 24.01.2018 Wednesday | II-IT & ECS | | Legendere's linear differential equation and problems. Simultaneous Linear equations with constant coefficients. | | Assignment of 02 Ques. given |
| January | 25.01.2018 Thrusday | II-IT & ECS | 2 | Application of Linear differential equation | | Assignment of 02 Ques. given |
| January | 29.01.2018 Monday | II-IT & ECS | | Laplace transform of elementary function. Properties of Laplace Transform. | | Assignment of 02 Ques. given |
| January | 01.02.2018 Thursday | II-IT & ECS | 3 | Evaluation of integrals by Laplace transforms. Inverse transforms using properties. | | Assignment of 02 Ques. given |

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| January | 02.02.2018 Friday | II-IT & ECS | 3 | Inverse Using Partial Fraction. Convolution theorem. | | Assignment of 02 Ques. given |
| February | 05.02.2018 Monday | II-IT & ECS | 3 | Laplace transform of unit-step function, unit – Impulse function and periodic function | | Assignment of 02 Ques. given |
| February | 07.02.2018 Wednesday | II-IT & ECS | 3 | Application of Laplace transform to solve linear differential equations | | Assignment of 02 Ques. given |
| February | 08.02.2018 Thrusday | II-IT & ECS | 3 | Application of Laplace transform to solve linear differential equations | | Assignment of 02 Ques. given |
| February | 09.02.2018 Friday | II-IT & ECS | 3 | Simultaneous linear diff. Eq. With constant co-efficient | | Assignment of 02 Ques. given |
| 1: | 2th February to 17th Febr | uary 2018 | | FIRST SESSIONAL EXAMINATION | | |
| Month | Date & Day | Sem-Class | Unit | Topic/Chapter covered | Academic activity | Test / assignment |
| February | 19.02.2018 Monday | II-IT & ECS | 4 | Formation of partial differential eqs. | | Assignment of 02 Ques. given |
| February | 21.02.2018 Wednesday | II-IT & ECS | 4 | Solution of partial differential Equation | | Assignment of 02 Ques. given |
| February | 22.02.2018 Thursday | II-IT & ECS | 4 | Lagrange's linear partial diff. Equations | | Assignment of 02 Ques. given |
| February | 23.02.2018 Friday | II-IT & ECS | 4 | First order non – linear partial differential equation | | Assignment of 02 Ques. given |
| February | 26.02.2018 Monday | II-IT & ECS | 4 | First order non – linear partial differential equation | | Assignment of 02 Ques. given |
| February | 28.02.2018 Wednesday | II-IT & ECS | 4 | First order non – linear partial differential equation | | Assignment of 02 Ques. given |
| March | 05.03.2018 Monday | II-IT & ECS | 4 | Charpit's method | | Assignment of 02 Ques. given |
| March | 07.03.2018 Wednesday | II-IT & ECS | 4 | Method of separation of variables and its applications | | Assignment of 02 Ques. given |
| March | 08.03.2018 Thursday | II-IT & ECS | 4 | Application to wave equation, one and two dimensional heat flow. | | Assignment of 02 Ques. given |
| March | 09.03.2018 Friday | II-IT & ECS | 4 | Revision of partial differential equation | | Assignment of 02 Ques. given |
| March | 12.03.2018 Monday | II-IT & ECS | 1 | Gradient of a scalar field and directional derivatives | | Assignment of 02 Ques. given |
| March | 14.03.2018 Wednesday | II-IT & ECS | 1 | Divergence and curl of a vector fields.Physical interpretations of Divergence and Curl | | Assignment of 02 Ques. given |

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| March | 15.03.2018 Thursday | II-IT & ECS | 1 | Properties of Divergence and Curl | | Assignment of 02 Ques. given |
| March | 16.03.2018 Friday | II-IT & ECS | 1 | Integration of vectors : line integral, surface integral | | Assignment of 02 Ques. given |
| | 19th March to 24th Marc | ch 2018 | | SECOND SESSIONAL EXAMINATION | | |
| March | 26.03.2018 Monday | II-IT & ECS | 1 | Integration of vectors: volume integral | | Assignment of 02 Ques. given |
| March | 28.03.2018 Wednesday | II-IT & ECS | 1 | Green's theorem | | Assignment of 02 Ques. given |
| April | 02.04.2018 Tuesday | II-IT & ECS | 1 | Stoke's theorem | | Assignment of 02 Ques. given |
| April | 04.04.2018 Wednesday | II-IT & ECS | 1 | Gauss theorem | | Assignment of 02 Ques. given |
| April | 05.04.2018 to 13.04.2018 | II-IT & ECS | 1 | Revision | | |
| 16th April to 23rd April 2018 | | | | Pre-University EXAMINATION | | |