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FUZZY MATHEMATICS

Started on: Monday, 1 June 2020

Course objectives: To Provide an emphasis on the differences and similarities between fuzzy sets and classical sets theories. Provide a brief introduction to

Mechanics and Astrophysics - Dr. Roby

MULTIVARIATE CALCULUS AND INTEGRAL TRANSFORMS

mforFouriertransfor ms. (Chapter 11 Sections 11.15 to 11.21 ofText1) (16

matrix form of the chain rule. (Chapter 12 Sections.12.1to12.10ofText1)

Chapter 10 Sections. 10.1 to 10.25, 10.33 ofText2 (21 hours.)

The Weirstrass theorem, other forms of Fouriers eries, the Fourier integral theorem, thee

Fourierintegraltheorem,integraltransformsandconvolutions,theconvolutiontheore

hours) Module 2: Multivariable Differential Calculus The directional derivative, directional derivatives and continuity, the total derivative, the total derivative expressed in terms of partial derivatives, An application of complex- valued functions, the matrix of a linear function, the Jacobian matrix, the chain rate

(17hours.) Module 3: Implicit functions and extremum problems, the mean value theorem for differentiable functions, a sufficient condition for differentiability, a sufficient condition for equality of mixed partial 47 derivatives, functions with non-zero Jacobian determinant, the inverse function theorem (without proof), the implicit function theorem (without proof), extrema of real- valued functions of one variable, extrema of real- valued functions of several variables. Chapter 12 Sections-. 12.11 to 12.13. of Text 1 Chapter 13 Sections-. 13.1 to 13.6 of Text 1 Module 4: Integration of Differential Forms Integration, primitive mappings, partitions of unity, change of variables, differential forms, Stokes theorem (without proof)

Cherian (UGSEM2 Mathematics)

Started on: Friday, 1 November 2019

Started on: Tuesday, 10 November 2020

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Module 1:

fuzzy arithmetic concepts and fuzzy logic.

FUZZY SETS

AND FUZZY LOGIC

Multivariable Calculus

[[[_m,ro.u.es -]]]_m,roth.rodo.shunesw Change of variables using the

Jacobian

Polar coordinate transformation dxdy=rdrd0

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