**ST. JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS), VISAKHAPATNAM**

**VI SEMESTER MATHEMATICS TIME: 6 Hrs/Week**

### M-A3-6302 (3)/M-A3-6352 PROJECT WORK Max. Marks: 150

**w.e.f 2019-2020 CLUSTER - III SYLLABUS (100+50)**

**(Theory and Practical)**

**OBJECTIVES:**

* Extensive Survey of Literature
* Identification of Topic
* Developing research questions and areas
* Preparing the Research Design including Sample Design
* Publication of papers on related topics

**METHODOLOGY :**

* Collection of the Data
* Analysis of Data
* Generalization and Interpretation
* Preparation of the Report or Presentation of Results-Formal write ups of Conclusions reached.

**Evaluation Process for Theory: 100**

For the Field Work : 40

For the Project Report : 60

**Evaluation Process for Practical: 50**

For Viva Voce : 20

For Seminar Presentation on Project Work : 30

**Total : 150**

**REFERENCES BOOKS :**

1. **Abbas, M. and Jungck, G.** “Common fixed point results for noncommuting mappings without continuity in cone metric spaces”, J.Math.Anal.Appl.341,(2008), 416-420.
2. **Abbas, M. and Rhoades,** **B. E.**  “Fixed and periodic results in cone metricspaces” Appl.Math.Lett, (2008), 22 (4), 511-515
3. **Amit Singh , Dimri, R. C. and Sandeep Bhatt.** “A Unique Common Fixed Point Theorem for Four Maps in Cone Matric Spaces”, Int. Journal of Math. Analysis, Vol. 4, (2010), No. 31, 1511-1517.
4. **Azam, A. and Arshad, M**. “Common fixed points of generalized contractive maps in cone metric spaces;” Bulleton of the Iranian Mathematical Society Vol.35, (2009), No.2, 255-264.
5. **Banach, S. “**Surles operations dans les assembles abstract at leur applications aux equations integrables”, Fund. Math. Soc. 3, (1922), 131-181.
6. **Branciari,** **A.** “A fixed point theorem of Banach-Caccioppoli type on a class of generalized metric spaces”, Publ. Math. Debrecen, 57 (1-2),(2000), 31{37. 1, 1.1, 1}
7. **Brouwer, L.E.J. “**Uber eineindeutige, stetiger Transformationen” , von Flaachen in sich. Math. Ann. 69, (1910), 176-180.
8. **Deza, M. and Deza, E.** “Encyclopedia of Distances” , Springer-Verlag, (2009), i – x.
9. **Dhanorkar, G.A. and Salunke, J.N. “**A Generalization Common Fixed Points of Multifunctions on Cone Matrix Spaces,Applied Mathematical Sciences”,Vol.5, (2011), no. 45, 2241 – 2247.
10. **Dhanorkar, G. A. and Salunke, J. N. “**A Generalization on Fixed Point Theorem on Cone Metric Spaces with w-Distance**”** , International Mathematical Forum, Vol. 6, (2011), no. 39 , 1915 - 1919
11. **Dimri, R.C. , Amit Singh and Sandeep Bhatt.** “Common Fixed Point Theorems for Multivalued Maps in Cone Metric Spaces” , Int. Math. Forum,Vol. 5 , (2010), no. 46 ,

pp. 2271-2278.

1. **Frechet, M. “** Sur quelques points du clacul fonctionnel, Rendiconti decircolo Matematic O di Palermo**”**, 22, (1906), 1-76.
2. **Hausdorff, F.**  **“**Grundzüge der Mengenlehre, Verlag Von Veit & Company**”**, Leipzig (1914). Reprinted by Chelsea Publishing Company, New York (1949).

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