Department of Computer Science & Engineering

Report On SDP:

1. Type of Event: **Student Development Program (17thFEB – 22nd FEB 2020)**

2. Title of Event: ***"Introduction To Machine Learning"***

3. Resource Person: **Mrs.T.Subha, Associate Professor/IT, SSEC**

4. Event Duration: **10.00 AM to 04.00 P.M (17th FEB – 22nd FEB 2020)**

5. Venue: **CSE Seminar Hall**

6. Organizing Committee:**Dr.T.Chandrashekar, Principal, RRCE,Dr.R.Balkrishna, Dean, RRCE**

   Dr. S Usha, Dean Research, HOD (CSE)

7. Faculty Co-Coordinator: **Dr.Rajesh K S, Prof/CSE, Mr.ShasidharV, AP/CSE**

8. Target Participants: **CSE Studentsand Faculties (Around 170 Participants)**

9. Topics covered:
   - Introduction to Linear Algebra, Machine Learning and its use in research, Overview of Machine Learning, Utility, classification of ML systems, example of applications
   - Introduction to Jupyter Notebook and Google Colab
   - Supervised vs. Unsupervised Learning, Linear Regression with one variable (and any associated topic).
   - Introduction to Python, NumPy and Pandas
   - Gradient Descent
   - Data visualization, Data pre-processing (handling missing data, data cleaning, transformation), Implementation of Gradient Descent
   - Linear Regression with multiple variables
   - few examples of Linear Regression using Python
   - Logistic Regression
   - few examples of Logistic Regression using Python
   - Good Practices in Machine Learning (Special Session) Participants will be given time to prepare assignment