Format for Syllabus Development of Skill Development Course

Title of Course:- DESCRIPTIVE STATISTICS USING EXCEL & 'R'

Nodal Department of HEI to Run Course:-

Broad Area/Sector:- DATA ANALYSIS

Sub-sector:-

Nature of Course:- Independent

Name of Suggestive Skill Council:

Aliened NSQF Level:

Expected Fees of the Corse: -

Stipend to Student Expected from Industry:-

Number of Seats:-

Course Code:-

Maximum Marks: - 100 Minimum Marks: - 40 Marks Credits: - 03(01 Theory, 02 Practical)

Name of Proposed Skill Partner (Please specify, Name of Industry, Company etc. for Practical / Training/Internship/OJT):-

Job Prospects-Expected Fields of Occupation where student will be able to get job after completing this course (Please specify, Name of Industry, Company etc. for Practical/Training/Internship/OJT):-

Syllabus

Unit	Topics	General/ Skill Component	Theory/ Practical/ OJT/ Internship/ Training	No. of Theory Hours (Total 15 Hours = 01 Credit)	No. of Skill Hours (Total 60 Hours = 02 Credit)
I	Introduction to 'R' & MS-Excel	Familiarity with Software	Theory/Practical	02	05
II	Types of Data and Frequency Distribution	Data Handling	Theory/Practical	02	10
III	Graphical Representation of Data	Data Representation	Theory/Practical	03	15
IV	Measures of Central Tendency and Dispersion	Computational /Analytical Ability	Theory/Practical	05	15
V	Simple Correlation and Rank Correlation	Computational /Analytical Ability	Theory/Practical	03	15

Suggested Readings:-

- 1. Chambers, J. (2008). Software for Data Analysis: Programming with R, Springer.
- 2. Crawley, M.J. (2017). The R Book, John Wiley & Sons.
- **3.** Eckhouse, R.H. and Morris, L.R. (1975). Minicomputer Systems Organization, Programming and Applications, Prentice-Hall.
- 4. Matloff, N. (2011). The Art of R Programming, No Starch Press, Inc.

Suggested Digital Platforms/Web Links for Readings:-

http://heecontent.upsdc.gov.in/SearchContent.aspx

https://swayam.gov.in/explorer?searchText=statistics

https://nptel.ac.in/course.html

https://www.edx.org/search?q=statistics

https://www.coursera.org/search?query=statistics&

Suggested OJT/Internship/Training/Skill Partner:-

Suggested Continuous Evaluation Methods: - Assignments, Group discussion, Quiz etc.

Course Pre-requisites:- No pre-requisite required, Open to All.

Suggested Equivalent Online Courses:-

Any Remarks/Suggestions:-

Note:

- Number of units in Theory/Practical may vary as per need.
- Total Credits per Semester = 03(It can be more, but students will get only 03 credits/ semester or 06 credits/year
- Credits for Internship/OJT/Training/Practical = 02 (Training Hours = 60)