PREAMBLE
The efficient operation of organizations across sectors in the present data driven world relies on the effective use of vast amounts of data. Data Science and Big Data Analytics are exciting new areas that combine scientific inquiry, statistical knowledge, substantive expertise, and computer programming to handle this big data. This faculty development programme aims to provide an introduction to the field of data science using classical statistical methods, recent advances in computational and machine learning techniques with hands-on lab sessions. This programme is intended to provide an opportunity for teachers for upgrading their knowledge in the area of data science and big data analytics.

COURSE CONTENTS
• Introduction to data science and big data analytics
• Challenges in working with big data
• Data Analytics Lifecycle
• Data analytics and knowledge management
• Basic Data Analytic Methods using R Programming
• Hands on Lab sessions on R Programming
• Supervised learning approaches for big data analytics
• Un-Supervised learning approaches for big data analytics
• Introduction to Statistical Package for the Social Sciences (SPSS) and Statistical Analysis Software (SAS)
• Tools for Big Data analytics – SPARK, SPLUNK
• Google Analytics and Digital Marketing

COURSE FACULTY
Faculty from Pondicherry Engineering College, Faculty from reputed institutions and experts from R&D organizations.

ELIGIBILITY
The Faculty Members/Research Scholars of AICTE approved Engineering Colleges/Polytechnics and Professionals from Industry are eligible to apply for the course. Teachers belonging to other disciplines may also apply if this course would supplement their research. Admission will be offered subject to the availability based on the TEQIP guidelines.

TA/DA and ACCOMMODATION
No TA/ DA will be paid to the participants as per TEQIP norms. Working lunch, tea and refreshments will be provided to all the participants. Accommodation will be provided to the selected outstation participants in the campus, upon request, at their own expenses.

REGISTRATION
Registration form can be downloaded from the Institute website (www.pec.edu). Interested participants shall apply through post/fax/email with the prescribed format duly signed and forwarded by the head of the sponsoring institution.

IMPORTANT DATES
Last date for registration: 15.06.2016
Intimation of selection: 17.06.2016

The selection of the participants will be intimated through e-mail only.
DECLARATION BY APPLICANT
The above mentioned information is true to the best of my knowledge and belief. I agree to abide by the rules and regulations governing the STTP Programme. I shall attend the programme for the entire duration.
Place:
Date:

Signature of the Applicant

SPONSORSHIP CERTIFICATE
Certified that Dr/Mr./Ms -------------------------- is an Employee/Research Scholar of our Institution and is sponsored to attend the TEQIP PHASE II sponsored STTP on “Emerging Trends and Challenges in Data Science and Big Data Analytics - Theory, Methods, Technology and Tools”. He/She will be permitted to attend the course fully, if selected.
Place:
Date:

Signature of the Sponsoring Authority with Seal

ABOUT PUDUChERRY
Heritage is one of the most precious gifts, Puducherry offers to its tourists and visitors. The coastal town of Puducherry with the French ambience is known for the serene atmosphere. The great poets Subramaniya Bharathi, Bharathidasan, Sri Aurobindo are some of the legends associated with Puducherry. Sri Aurobindo Ashram, Auroville, Bharathi Park, Ousteri Lake, Chumambar boat house, Botanical Garden, Manakula Vinayagar Temple, and Arikamedu (archaeological importance) are some of the major tourist attractions of Puducherry.

ABOUT THE INSTITUTE
Pondicherry Engineering College (PEC) is an autonomous institution started in the academic year 1985-86 under the seventh plan which is promoted and fully funded by the Government of Puducherry. Ever since its inception, the college has registered speedy progress and it now offers eight undergraduate, thirteen post graduate courses, and Ph.D. programmes in all branches of Engineering and Basic Sciences. The college has been granted funds by NPIU under TEQIP Phase II and the project is under implementation. The college is situated at Pillaichavady, about 12 Kms from Puducherry town and about 150 Kms from Chennai along the scenic beauty East Coast Road (ECR) on the shores of the Bay of Bengal.

ABOUT THE DEPARTMENT
The Department of Computer Science and Engineering was established during the inception of the college. The Department offers B.Tech, MCA, M.Tech in Distributed Computing Systems, M.Tech in Information Security and Ph.D programmes.

TEQIP PHASE- II SPONSORED SHORT TERM TRAINING PROGRAMME ON
Emerging Trends and Challenges in Data Science and Big Data Analytics - Theory, Methods, Technology and Tools (DS-BDA)

23rd June to 29th June, 2016

COORDINATORS
Dr. M.THENMOZHI
Ms. R.SARALA
Dr. P.SALINI

Organized by
Department of Computer Science & Engineering
Pondicherry Engineering College
(An Autonomous Institution of Govt. of Puducherry)
Pillaichavady, Puducherry – 605 014
Website: www.pec.edu
Fax: 0413 - 2655101

Address for Correspondence
Dr. M.THENMOZHI
Ms. R.SARALA
Dr. P.SALINI

Coordinators-(DS-BDA)
Department of Computer Science & Engineering,
Pondicherry Engineering College,
Pillaichavady, Puducherry – 605 014
Mobile: 9500893708, 9442366902, 9994738640
E-Mail: thenmozhi@pec.edu, sarala@pec.edu, salini@pec.edu