



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE

www.sathyabama.ac.in

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE ACADEMIC YEAR 2017-2018

S.NO	Name of the value added courses (with 30 or more contact hours) offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
1	Data Science	SVA011	22.8.2017	1	35	220	215
2	.Net Programming	SVA012	22.8.2017	1	35	178	170
3	Web Designing	SVA013	22.8.2017	1	30	200	195
4	IBM-Data Analytics	SVA014	18.9.2017	1	35	85	82
5	IBM-Cyber Security	SVA015	18.9.2017	1	35	80	75
6	Big Data	SVA016	5.2.2018	1	30	320	318
7	HTML	SVA017	5.2.2018	1	30	300	298
8	Technology behind AR/VR	SVA018	5.2.2018	1	35	145	140



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Course Name	Data Science
Course Code	SVA011
Duration	35 Hours

COURSE OBJECTIVES

- To understand the mathematical foundations required for data science
- To describe a flow process for data science problems
- To introduce basic data science algorithms and data visualization
- To learn machine tools and techniques.
- To learn the ideas and tools for data visualization.

COURSE OUTCOMES

On completion of the course the student will be able to

1. Explain the basic terms of Linear Algebra and Statistical Inference
2. Describe the Data Science process and how its components interact
3. Apply EDA and the Data Science process in a case study
4. Classify Data Science problems
5. Analyse and correlate the results to the solutions
6. Simulate Data Visualization in exciting projects

LINEAR ALGEBRA

Algebraic view – vectors 2D, 3D and nD, matrices, product of matrix & vector, rank, null space, solution of over determined set of equations and pseudo-inverse, Geometric view - vectors, distance, projections, eigenvalue decomposition, Equations of line, plane, hyperplane, circle, sphere, Hypersphere.

PROBABILITY AND STATISTICS

Introduction to probability and statistics, Population and sample, Normal and Gaussian distributions, Probability Density Function, Descriptive statistics, notion of probability, distributions, mean, variance, covariance, covariance matrix, understanding univariate and multivariate normal distributions, introduction to hypothesis testing, confidence interval for estimates



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EXPLORATORY DATA ANALYSIS AND THE DATA SCIENCE PROCESS

Exploratory Data Analysis and the Data Science Process - Basic tools (plots, graphs and summary statistics) of EDA - Philosophy of EDA - The Data Science Process - Data Visualization - Basic principles, ideas and tools for data visualization - Examples of exciting projects- Data Visualization using Tableau

MACHINE LEARNING TOOLS, TECHNIQUES AND APPLICATIONS

Supervised Learning, Unsupervised Learning, Reinforcement Learning, Dimensionality Reduction, Principal Component Analysis, Classification and Regression models, Tree and Bayesian network models, Neural Networks, Testing, Evaluation and Validation of Models

TEXT / REFERENCE BOOKS

1. Cathy O'Neil and Rachel Schutt. Doing Data Science, Straight Talk from the Frontline. O'Reilly. 2014.
2. Introduction to Linear Algebra - By Gilbert Strang, Wellesley-Cambridge Press, Fifth Edition. 2016.
3. Applied Statistics and Probability for Engineers – By Douglas Montgomery. 2016.
4. Jure Leskovek, Anand Rajaraman and Jeffrey Ullman. Mining of Massive Datasets. v2.1, Cambridge University Press. 2014. (free online)



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ORGANIZES
VALUE-ADDED PROGRAM
ON



"DATA SCIENCE"

FROM 22.08.2017 TO 10.11.2017

PROGRAM COORDINATOR

Dr. B.BHARATHI



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Jeppiar Nagar, Rajiv Gandhi Salai, Chennai - 600 119, India



CERTIFICATE OF COMPLETION

This is to certify that

Mr. CHIKATLA VENKATA SIVA KOUSHIK

Has attended and successfully completed the course on “**DATA SCIENCE**”
conducted by the Department of Computer Science and Engineering, Sathyabama
University from 22.08.2017 to 13.11.2017

DR. M LAKSHMI

Dean - School of Computing



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Course Name	.Net Programming
Course Code	SVA012
Duration	35 Hours

OBJECTIVES:

- To learn basic programming in C# and the object-oriented programming concepts.
- To update and enhance skills in writing Windows applications, ADO.NET and ASP .NET.
- To study the advanced concepts in data connectivity, WPF, WCF and WWF with C# and .NET 4.5.
- To implement mobile applications using .Net compact framework
- To understand the working of base class libraries, their operations and manipulation of data using XML.

OUTCOMES:

Upon completion of the course, the students will be able to:

- Write various applications using C# Language in the .NET Framework.
- Develop distributed applications using .NET Framework.
- Create mobile applications using .NET compact Framework.

UNIT I C# LANGUAGE BASICS

.Net Architecture – Core C# – Variables – Data Types – Flow control – Objects and Types- Classes and Structs – Inheritance- Generics – Arrays and Tuples – Operators and Casts – Indexers

C# ADVANCED FEATURES

Delegates – Lambdas – Lambda Expressions – Events – Event Publisher – Event Listener – Strings and Regular Expressions – Generics – Collections – Memory Management and Pointers – Errors and Exceptions – Reflection

BASE CLASS LIBRARIES AND DATA MANIPULATION

Diagnostics -Tasks, Threads and Synchronization – .Net Security – Localization – Manipulating XML- SAX and DOM – Manipulating files and the Registry- Transactions – ADO.NET- Peer-to-Peer Networking – PNRP – Building P2P Applications – Windows Presentation Foundation (WPF).

.NET FRAMEWORK AND COMPACT FRAMEWORK



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Assemblies – Shared assemblies – Custom Hosting with CLR Objects – Appdomains – Core XAML – Bubbling and Tunneling Events- Reading and Writing XAML – .Net Compact Framework – Compact Edition Data Stores – Errors, Testing and Debugging – Optimizing performance – Packaging and Deployment – Networking and Mobile Devices

TEXT BOOKS:

1. Christian Nagel, Bill Evjen, Jay Glynn, Karli Watson, Morgan Skinner . —Professional C# 2012 and .NET 4.5, Wiley, 2012
2. Harsh Bhasin, —Programming in C#, Oxford University Press, 2014.



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CERTIFICATE OF COMPLETION

This is to certify that

Mr. DIPTANIL SAHA

Has attended and successfully completed the course on “**.NET Programming**” conducted by the Department of Computer Science and Engineering, Sathyabama University from 22.08.2017 to 13.11.2017

DR. M LAKSHMI
Dean - School of Computing



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Course Name	Web Designing
Course Code	SVA013
Duration	30 Hours

COURSE OBJECTIVES:

- To develop dynamic Web pages with high level of design and graphics.
- To apply prevailing technologies in the development of Web pages.
- To provide a platform for the learners to become a full stack developer.
- To Become a Full Stack Developer
- To understand the basics of Content Management Systems (CMS)

COURSE OUTCOMES:

Upon successful completion of this course students should be able to:

- Develop Web Applications using the current technologies and Web standards
- Apply styling, dynamic interaction with the Web components
- Develop Interactive Web Apps using jQuery and JavaScript
- To develop Server-Side Scripting with PHP
- Able to communicate between front end and back end applications.

COURSE CONTENT:

WEEK 1: (3 Hours)

HTML 5 - Getting Started, Client-Side Scripting, Server-Side Scripting, Tools for Web Application Development, HTML Tags, Labels, Input, Dropdowns and Radio Buttons, Lists, Div and Span, Attributes, Tables, Buttons, Forms.

WEEK 2: (3 Hours)

CSS 4 – Basics, Inline CSS, Internal CSS, External CSS, Selectors, Colours, Fonts, Alignment, Cascading, Animation.



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WEEK 3: (3 Hours)

Bootstrap 4.5 - Colors and Backgrounds, Input Controls, Spacings, Tables, Forms, Layout.

WEEK 4: (3 Hours)

JavaScript – Variables, Operators, Conditional Statements and Loops, Arrays, Functions,

Objects: Math, Date, Numbers, String.

WEEK 5: (3 Hours)

jQuery – Selectors, Attr and Val, Text and Html, Events, Effects, Controls.

WEEK 6: (3 Hours)

PHP – Basics, Variables, Operators, Conditional Statements, Arrays, Functions.

WEEK 7 & 8: (6 Hours)

PHP – Sessions, Cookies, Classes, Forms, Validation, Filters, File Handling.

WEEK 9 & 10: (6 Hours)

MySQL – Database, Tables, Queries, Procedures, Building a web application.



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VALUE-ADDED PROGRAM
ON
"WEB DESIGNING
FROM 22.08.2017 TO 10.11.2017
PROGRAM COORDINATOR
Dr. Mary Posonia





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CERTIFICATE OF COMPLETION

This is to certify that

Mr. CHARIT KUMAR REDDY. B

Has attended and successfully completed the course on "**WEB DESIGNING**" conducted
by the Department of Computer Science and Engineering, Sathyabama University from
22.08.2017 to 13.11.2017

DR. M LAKSHMI

Dean - School of Computing



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Course Name	IBM-Data Analytics
Course Code	SVA014
Duration	35 Hours



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"DATA ANALYTICS" AND "CYBER SECURITY"
TRAINING PROGRAM IN ASSOCIATION WITH IBM



IBM Security

FROM 22.08.2017 TO 25.10.2017

PROGRAM COORDINATOR

Dr. B.BHARATHI, Dr. PRINCE MARY, DR. AROULCANNESENE

Course Outline - Big Data Analytics

Unit No. 1 Big Data Concepts

What Is Big Data, Volume, Velocity, and Variety; Why It's Important, Risks of Big Data, Need of Big Data, Structure of Big Data; Exploring Big Data, Filtering Big Data, The Need for Standards; Big Data and Analytics, Adoption Architecture, Benefits & Barriers, Trends for Big Data Analytics

Unit No. 2 Hadoop Fundamentals

Hadoop Architecture, Hadoop File System (HDFS); HDFS Administration; Map / Reduce concepts; Setup of an Hadoop Cluster; Managing Job Execution; move data into Hadoop using Flume, Data Loading; Overview of workflow engine

Unit No. 3 Query languages for Hadoop



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Jaql basics, Jaql data types, Input/output with Jaql, working with operators and expressions, Use of Pig & Hive

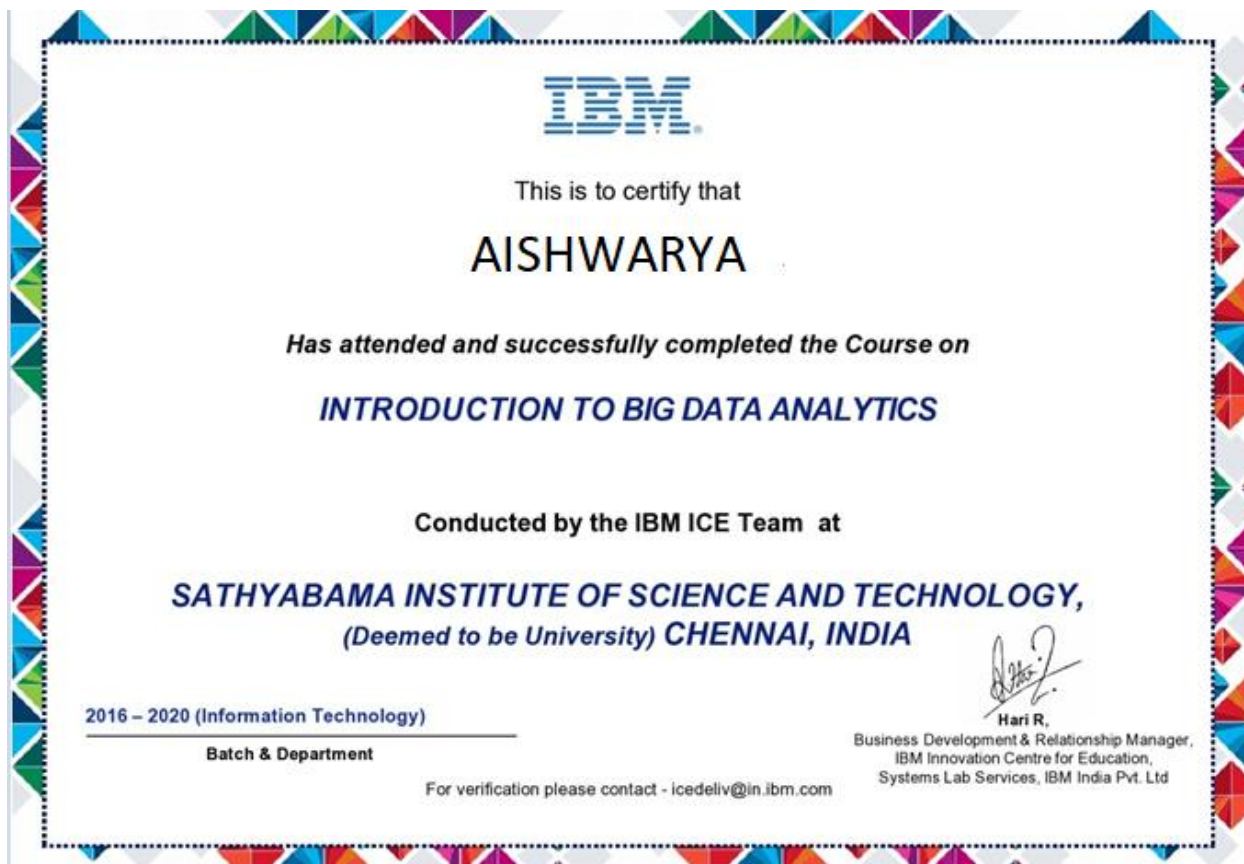
Unit No. 4 Hadoop Reporting and Analysis

Approaches to Big Data reporting and analysis, Big Data Access Technologies for Reporting and Analysis, Business Intelligence and Hadoop Architecture, Direct Batch Reporting on Hadoop, Live Exploration of Big Data, Indirect Batch Analysis on Hadoop

Unit No. 5 Analytics for Big Data at Rest & in Motion

Data Stream overview; Streams Processing Language Basics; Streams Processing Language Development; SPL Programming Introduction; Adapter Operators; Relational and Utility Operators - The Journey Begins; Relational and Utility Operators (continued) ; Windowing and Joins ; Punctuation, aggregation and Sorting;; Timing and Coordination ; Lists, Sets, and Maps ; Nodes and Partitions ; Debugging; Adapters and Toolkits

Text Books - Big Data Analytics





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Course Name	IBM-CYBER SECURITY
Course Code	SVA015
Duration	35 Hours

Information Security Fundamentals	
Goal	To provide introductory knowledge on Cyber Security
OBJECTIVES	OUTCOMES
The course is To introduce the Cyber Security	The students will be able to Gain the introductory knowledge of Cyber Security

Unit No. 1 The CIA Triad

Confidentiality, Integrity & Availability, what is Information Security? Identification and Authentication, Authorization and Access Control, Auditing and Accountability

Unit No. 2 Cryptography, Operations Security

Modern Cryptography Tools, Protecting Data at rest, In motion, And In Use, Origins Of Operations Security, The Operations Security Process, Laws Of Operations Security, Operations Security in our Personal Lives

Unit No. 3 Physical Security and Network Security

Introduction, Physical Security Controls, Protecting People, Data and Equipment. Protecting Networks, Protecting Network Traffic. Network Security Tools

Unit No. 4 Operating System and Application Security

Operating System Hardening, Protecting Against Malware, Software Firewalls and Host Intrusion Detection, Operating System Security Tools, Software Development Vulnerabilities, Web Security, Database Security, Application Security Tools.

Unit No. 5 Information Security - Audit and Monitoring, Intelligence, Compliance, Management and Governance.

Change and Security Implications, System Models, Targets and Methods, Log Management, Data Aggregation and Reduction, Notifications and Reporting, Monitoring and Control Challenges, Auditing Standards, SAS 70 Audits, Sarbanes -Oxley, Addressing Multiple Regulations for Information Security Technical Frameworks for IT Audits, Intelligence and Compliance, Management and Governance.

Text Book - Information Security Fundamentals (IBM ICE Publication)



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CHILEKAMPALLI PAVANIGANGA

Has attended and successfully completed the Course on

INTRODUCTION TO INFORMATION SECURITY FUNDAMENTALS

+

IT DATA AND APPLICATION SECURITY

Conducted by the IBM ICE Team at

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY,
(Deemed to be University) CHENNAI, INDIA

2016 – 2020 (Information Technology)

Batch & Department

For verification please contact - icedeliv@in.ibm.com

Hari R.

Business Development & Relationship Manager,
IBM Innovation Centre for Education,
Systems Lab Services, IBM India Pvt. Ltd



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Course Name	Big Data
Course Code	SVA016
Duration	30 Hours

COURSE OBJECTIVES

- To become familiar with the fundamental concepts of BigData
- To be competent in identifying the challenges in handling large volumes of data
- To propose scalable solutions
- To understand the impact of Big Data in business intelligence, scientific discovery, and in day-to-day life
- To learn the tools and techniques for handling large datasets

COURSE OUTCOMES

On completion of the course the student will be able to

1. Configure the tools required for setting up Big Data Ecosystem.
2. Understand conceptually how Big Data is stored and organized.
3. Use appropriate models of analysis, assess the quality of input, derive insight from results, and investigate potential issues.
4. Interpret data findings effectively in visual formats.

INTRODUCTION

10 Hrs.

Introduction to Big Data – Issues and Challenges in the traditional systems - Evolution of Big Data – Four V's of Big Data – Big Data Use Cases and characteristics – Intelligent Data Analysis – Data Analytic Tools – Big Data Storage Statistical Concepts: Sampling Distributions - Re-Sampling - Statistical Inference - Prediction Error – Random Sampling.

BIG DATA TOOLS I

10 Hrs.

Big Data Applications using Pig and Hive – Fundamentals of HBase and ZooKeeper – IBM InfoSphere Big Insights –

Introduction to FLUME – KAFKA.

BIG DATA TOOLS II

10 Hrs.

Introduction to NoSQL - MongoDB – Spark – Cassandra - Cassandra Data Model – Data Design – Cassandra Architecture – Read and Write Data – Clients – Integrate with Hadoop. Introduction - Importance of Effective Data Visualization - Introduction to Tableau - Choosing the Right Chart Type - Using the Color Effectively Reducing Clutter - Dashboard Creation and Formatting.



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TEXT /REFERENCE BOOKS

1. Joshua N. Milligan, "Learning Tableau", Packt Publishing, 2015.
2. Chuck Lam, "Hadoop in Action", Manning Publications Co., 2018.
3. Tom White, "Hadoop the Definitive Guide", Oreilly, 4th Edition, 2015.
4. Eben Hewitt, "Cassandra: The Definitive Guide", O'Reilly, 2010.
5. Anand Rajaraman and Jeffrey David Ullman, "Mining of Massive Datasets", Cambridge University Press, Edition ISBN-10: 1107015359 | ISBN-13: 978-1107015357, 2011.



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VALUE-ADDED PROGRAM
ON

"BIG DATA"

FROM 05.02.2018 TO 10.04.2018

PROGRAM COORDINATOR

Dr. ALBERT MAYAN



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CERTIFICATE OF COMPLETION

This is to certify that

Mr. AKULA SREEKANTH

Has attended and successfully completed the course on **"BIG DATA"**

conducted by the Department of Computer Science and Engineering,

Sathyabama University from 05.02.2018 to 15.04.2018

DR. M LAKSHMI

Dean - School of Computing



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Course Name	HTML
Course Code	SVA017
Duration	30 Hours



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VALUE-ADDED PROGRAM
ON

"HTML"

FROM 05.02.2018 TO 10.04.2018

PROGRAM COORDINATOR

Dr. N.SRINIVASAN



Module 1: Web Programming Introduction

- Architecture of a website-Different technologies in making the website-Web Development introduction

Module 2: HTML-Introduction

- History of HTML-What you need to do to get going and make your first HTML page-What are HTML Tags and Attributes?-HTML Tag vs. Element-HTML Attributes

Module 3: HTML-Basic Formatting Tags

- HTML Basic Tags



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- HTML Formatting Tags
- HTML Color Coding

Module 4: HTML-Grouping Using Div Span

- Div and Span Tags for Grouping

Module 5: HTML-Lists

- Unordered Lists
- Ordered Lists
- Definition list

Module 6: HTML-Images

- Image and Image Mapping

Module 7: HTML-Hyperlink

- URL - Uniform Resource Locator
- URL Encoding

Module 8: HTML-Table

- < table >
- < th >
- < tr >
- < td >
- < caption >
- < thead >
- < tbody >
- < tfoot >
- < colgroup >
- < col >

Module 9: HTML-Iframe

- Using Iframe as the Target

Module 10: HTML-Form

- < input >



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- < textarea >
- < button >
- < select >
- < label >

Module 11: HTML-Headers

- Title-Base-Link-Styles-Script-Meta

Module 12: HTML-Miscellaneous

- HTML Meta Tag, XHTML, HTML Depreciated Tags & Attributes

