

Course:Major
Computer Science Practical-MongoDB and SCALA

Semester I	Credits: 2	Subject Code: SMAJCCSP123555	Lectures: 60
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Course Outcomes:

At the end of this course, the learner will be able to:

- CO1 – Understand syntax of SCALA programming language with different object-oriented features
- CO2 – Applyfunctional programming with SCALA
- CO3 – Learn to design database schema using Advanced Queries and CRUD operations of MongoDB database
- CO4 - Use MongoDB Aggregation framework.

Unit 1: SCALA Assignments

30

- Assignment on Arrays and Control Structures
- Assignment on Strings
- Assignment on Classes and Objects
- Assignment on List
- Assignment on Map
- Assignment on Set

Unit 2:MongoDB Assignments

30

- Assignment on Expression and comparison queries
- Assignment on Projection queries
- Assignment on Aggregation
- Assignment on count, limit, skip, count
- Assignment on Cursor
- Assignment on CRUD

References Books:

- Alvin Alexander, *Scala Cookbook*, O'REILLY publication
- Charlie Brooks, *Enterprise NoSQL for Dummies*, A Willy Brand, Marklogic Special Edition, ISBN: 978-1-118-83261-5 (ebk)

Websites:

- <http://nosql-database.org>



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Chairperson (HoD)	Computer Science	Ashwini Kulkarni	<i>[Signature]</i>

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Alumni	Ms. Pooja Pandey	<i>Pandey</i> 15-7-23	



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