

# SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution)

Approved by AICTE & Affiliated to Anna University, Chennai.

Accredited by NBA, 'A' Grade Accreditation by NAAC, ISO 9001:2015 Certified

Date: 30.09.2020

## DEPARTMENT OF INFORMATION TECHNOLOGY

### MINUTES OF BoS MEETING

- The Chairman extended greetings to the BoS members on 24<sup>th</sup> September 2020; the discussion was initiated with presenting the Department Profile.

IT 1.01 - B.Tech. Artificial Intelligence and Data Science Degree Curriculum and Syllabi of III to VIII Semesters as admissible under the 2019 Regulations in Autonomous for Information Technology Programme were reviewed, discussed and suggested the following points,

#### a. III Semester

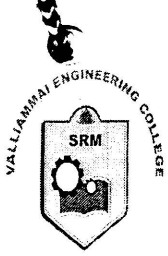
- Artificial Intelligence and Data Science concepts to be introduced as prerequisite subjects.
- Either DPSD or ADC shall be considered.
- Learning based subjects shall be introduced.

#### b. IV Semester

- For the subject Artificial Intelligence and Data Science Essentials title can be coined.
- Programming languages for Artificial Intelligence and Data Science shall be included.
- Maths paper should be framed in such a way to be correlated with Artificial Intelligence and Data Science applications.
- Random Process paper shall be included. 2 credits can be allocated.
- Theory cum practice subjects can be considered.

#### c. V Semester

- Papers like Statistics, Linear Algebra shall be included.
- Conceptual papers can be introduced.
- Computer Architecture and Organization shall be removed.



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- Networks lab shall be removed.

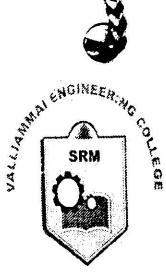
## d. VI Semester

- It was suggested to include only the basic concepts of Data Science in Data Science and R Essentials subject.
- R language can be given as a separate paper.
- Machine Learning can be merged as theory cum lab paper.
- It was suggested to include Big Data Framework first and then Big Data Analytics.
- Agile concepts shall be included in Software Engineering. The paper Software Engineering can be introduced along with lab during IV semester before taking up project work.
- Instead of Fuzzy Logic, IoT can be included.

## e. VII and VIII Semester

- It was suggested that Statistical Learning for DS can be included as core paper.
- Information Storage and Management is overlapping with Big Data. Instead Data Storage Networks shall be included in elective list. It is available in AICTE Model Curriculum.
- Soft Computing can be swapped with Deep Learning in elective.
- The following were suggested for the inclusion,
  - Genetic Algorithm as Optimization Techniques, either Fog or Edge Computing, Block Chain, Languages pertaining to Artificial Intelligence and Data Science like Tableau, R Language in each semester, Fundamentals of Ethical Hacking and For Data Quality and Transformations selection of benchmark dataset.
- Expert Systems shall be removed.

IT 1.02 – M.Tech. Data Science Degree Curriculum and Syllabi of I to IV Semesters as admissible under the 2019 Regulations in Autonomous for Information Technology Programme were reviewed, discussed and suggested the following points,



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## a. I and II Semester

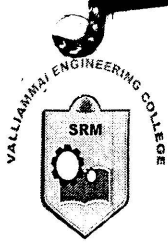
- Data Preprocessing papers to be included.
- Web Scraping shall be integrated with lab.
- Web Development shall be removed.
- For the Deep Learning paper credits of 4 shall be given.
- Research paper writing to be added with mini project.

## b. III and IV Semester

- Image Analytics shall be included instead of Computer vision.
- The subject Data Analytics should be re coined as Big Data Analytics.
- List of open source tools for Data Science shall be included.
- Embedded System for IoT to be removed. IoT Analytics along with collection through Raspberry shall be included.
- Wireless Sensor Networks shall be removed. Instead Open CV and Streaming Analytics shall be included.
- Performance metrics to be included as well as product design and development. Paper on Devops shall be included.

## IT 1.03 - General Suggestions given by the BoS members

- B.Tech. Artificial Intelligence and Data Science
  - Data Science skeleton papers shall be introduced in chronological order.
  - Data Preprocessing along with Visualization shall be introduced in IV semester.
  - Machine Learning to be introduced in earlier semesters.
  - Pre-requisite should be satisfied.
  - Reduction of credits shall be considered. Credits can be fixed as 160 to 165.



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- M.Tech. Data Science
  - In all the semesters, total no of subjects shall be 5.

## Signature of the BoS Members:

Dr. A. R. Revathi,  
Associate Professor & Head i/c  
Dept. of IT,  
SRM VEC.

Dr. Ponsy R.K. SathiaBhama,  
Associate Professor  
Dept. of CT, MIT Campus  
Anna University, Chennai.

Dr. D. Doreen Robin,  
Director  
CIRF, Chennai.

Dr. N. Bhalaji,  
Associate Professor  
Dept. of IT, SSN College of Engineering

Mr. Arunachalam Jayaraman,  
General Manager,  
GMSC Engineering & Service Assurance,  
Tata Communications Limited JTP, Chennai

Mr. Babu Ramesh,  
Data Scientist  
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Dr. S. Ravikumar  
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Assistant Professor (Sel. Grade)  
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