



# VASAVI COLLEGE OF ENGINEERING (Autonomous)

9-5-81, Ibrahimbagh, Hyderabad-500031, Telangana, India

(Sponsored by Vasavi Academy of Education)

ACCREDITED BY NAAC WITH 'A++' GRADE

Phone: +91-40-23146003 Fax: +91-40-23146090, +91-40-23146080

Dr. K. Ram Mohan Rao  
Professor & Head, Chairman, BoS

Department of Information Technology  
Phone: +91-40-23146050, 6051

## Minutes of the XII BoS Meeting conducted on 24-06-2023 from 10:30AM

The XII BOS Meeting started with a formal welcome address by the BOS Chairman Dr. Ram Mohan Rao, Professor & Head, Department of Information Technology

### Members List

Dr. K. Ram Mohan Rao, Professor & Head	Chairman, BOS
Dr. K. Shyamala, Professor, Department of Computer Science, University College of Engineering, Osmania University, Hyderabad	University Nominee
Dr. Salman Abdul Moiz, Professor, School of Computer & Information Sciences, University of Hyderabad, Hyderabad	Subject Expert
Dr. Bheemarjuna Reddy Tamma Assoc. Professor, Dept. of Computer & Engineering, IIT-Hyderabad, Hyderabad	Subject Expert
Dr. Raghavendra Kune, Scientist / Engineer 'SG', Head High performance computing Drones(HPCD), Advanced Data Processing Research Institute (ADRIN), ISRO, Secunderabad.	Expert from Research Organization
Mr Amit Kumar Gupta Sr Data Scientist, CSEO, Microsoft India, Microsoft Campus, Gachibowli, Hyderabad 500032, TS.	Subject Expert from Industry
Mr. Vijay Kumar Information Security Manager, Wells Fargo, Hyderabad	Alumnus
Mr. Surya Kiran, Software Engineer-9 Teradata Corporation India Pvt Ltd . Hyderabad	Alumnus
Entire Faculty members of the Department in each specialization	Faculty Members

The following points were discussed in the meeting.

### 1. Presentation of Department Profile:

- Head of the Department presented the Department Profile and and dissemination of department Vision, Mission, Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs).
- The placement growth rate and increase in the packages and the highest pay package of ₹ 81 Lakhs (Atlassian) offered to students are appreciated by all BOS members.
- The major achievement of the department in organizing International Conferences on MIGARS-2023 successfully technically co-sponsored by IEEE (GRSS) and published in IEEE is emphasized and applauded by all members.
- Our student's team got the First Prize worth ₹ 1 Lakh at Smart India Hackathon(SIH)-2022 for the Team "Naam me Kya Rakha Hai" for the problem statement AAIDoS, INCOIS, Ministry of Earth Sciences.

(Dr. K. Shyamala)  
University Nominee

(Dr. Salman Abdul Moiz)  
Subject Expert from UoH

(Dr. Bheemarjuna Reddy Tamma)  
Subject Expert from IITH

(Dr. Raghavendra Kune)  
Subject Expert from Research Organization

Mr. Amit Kumar Gupta  
Expert from Industry

(Mr. Vijay Kumar)  
Alumnus

(Mr. Suryakiran)  
Alumnus

(Dr. K. Ram Mohan Rao)  
Chairman, BOS





# VASAVI COLLEGE OF ENGINEERING (Autonomous)

9-5-81, Ibrahimbagh, Hyderabad-500031, Telangana, India

(Sponsored by Vasavi Academy of Education)

ACCREDITED BY NAAC WITH 'A++' GRADE

Phone: +91-40-23146003 Fax: +91-40-23146090, +91-40-23146080

Dr. K. Ram Mohan Rao  
Professor & Head, Chairman, BoS

Department of Information Technology  
Phone: +91-40-23146050, 6051

:: 2 ::

## The Action Taken Report on XI BOS meeting has been reviewed and ratified.

The BOS Chairman has presented the Students Exit Feedback and the Minutes of Department Advisory Committee (DAC) held on 10<sup>th</sup> June 2023 regarding the R23 regulations.

The draft version of R23 regulations (scheme and detailed syllabus) considering the inputs from students exit feedback and the recommendations of DAC for both B.E Regular and Honours programs is presented.

## Following are the Recommendations/ Approvals by the Members of BOS.

### I Year:


1. Introduce "Python Programming" in the first semester and to keep "Structured Programming for Problem Solving" in the second semester.

### II Year:

2. Web Technologies course name is changed as "Full Stack Development"
3. Software Engineering course which is currently offered in IV Semester (in R22) is moved to VI semester in R23.
4. Full Stack Development course which is currently offered in VI Semester (in R22) is moved to IV semester in R23.
5. It is recommended to include Reactive Native framework in Full Stack Development Course.
6. Micro Services concepts are to be included either in Full Stack Development or in Cloud Computing.
7. CI/CD, DevOps, DevSecOps, MLOps concepts are to be included in Full Stack Development Course or to be offered as a new Professional Elective Course.

### III Year:

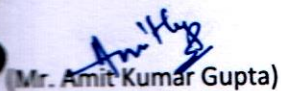
8. Title of DCCN course is changed as "Computer Networks".
9. Artificial Intelligence and Machine Learning (AIML) Course is offered along with lab in V Semester.
10. Mini Project to be removed to accommodate AiML Lab.
11. Neural Networks and Deep Learning (NNDL) Course is converted from Professional Elective to Professional Core course and offered in VI Semester along with Lab.
12. It is recommended to include Case Studies related to System Design in Software Engineering Course.
13. It is recommended to include Large Language Models (LLMs), Prompt Engineering and other Open AI initiatives in NNDL course.

  
(Dr. K. Shyamala)  
University Nominee

  
(Dr. Salman Abdul Moiz)  
Subject Expert from UoH

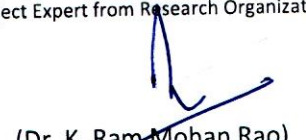
  
(Dr. Bheemarjuna Reddy Tamma)  
Subject Expert from IITH

  
(Dr. Raghavendra Kune)  
Subject Expert from Research Organization

  
(Mr. Amit Kumar Gupta)  
Expert from Industry

(Mr. Vijay Kumar)  
Alumnus

  
(Mr. Suryakiran)  
Alumnus

  
(Dr. K. Ram Mohan Rao)  
Chairman, BOS





# VASAVI COLLEGE OF ENGINEERING (Autonomous)

9-5-81, Ibrahimbagh, Hyderabad-500031, Telangana, India

(Sponsored by Vasavi Academy of Education)

ACCREDITED BY NAAC WITH 'A++' GRADE

Phone: +91-40-23146003 Fax: +91-40-23146090, +91-40-23146080

Dr. K. Ram Mohan Rao  
Professor & Head, Chairman, BoS

Department of Information Technology  
Phone: +91-40-23146050, 6051

:: 3 ::

## IV Year:

14. Automata Language and Computation & Compiler Construction courses are merged into one course titled "Automata Theory and Compiler Design" along with "Compiler Construction Lab". The course coordinator is asked to prepare the final syllabus for both Theory and Lab Courses.
15. Concepts related to Data Privacy Regulation (GDPR & India Security Privacy Laws) are to be included in Information Security Course offered as Professional Elective in VII Semester.
16. It is recommended to include Reinforcement Learning as Professional Elective in VII Semester.
17. It is recommended to include the concepts of ML and DL for remote sensing in Digital Image and Video processing or Computer Vision Courses.
18. Data Mining Course syllabus is revised to avoid the overlap with AIML course and the revised syllabus is approved.
19. Enterprise Architecture Course is to be introduced as a Professional Elective IV under Software Engineering Track in place of Object-Oriented Analysis & Design in VII Semester. Online Certification also shall be encouraged through TOGAF (The Open Group Architecture Framework).

## Open Electives offered by Department of Information Technology:

1. Open Electives are offered in 4 Tracks as mentioned below.

Track	III Sem	IV Sem	V Sem	VI Sem
<b>Credits</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>3</b>
Track – I General Track	Object Oriented Programming using Java	Introduction to Database Management Systems	Essentials of Operating Systems	Web App Development & Security
Track – II AI&ML Track	Computing using Python	Essentials of Mathematics for ML using Python	Introduction to Artificial Intelligence	Introduction to Machine Learning
Track – III Security & Block Chain	Introduction to Database Management Systems	Cryptography & Network Security	Distributed Databases	Block Chain
Track – IV Data Science	R Programming	Introduction to Data Analytics	Data Analytics & Visualization (tableau)	Big Data & Applications (Hadoop, Spark, Hive)

2. It is recommended to offer a new course covering the concepts of Malware attacks, application security, network security, Network traffic analyser viz., Wireshark in place of "Cryptography & Network Security", under Track-III in VI Semester.

(Dr. K. Shyamala)  
University Nominee

(Dr. Salman Abdul Moiz)  
Subject Expert from UoH

(Dr. Bheemarjuna Reddy Tamma)  
Subject Expert from IITH

(Dr. Raghavendra Kune)  
Subject Expert from Research Organization

(Mr. Amit Kumar Gupta)  
Expert from Industry

(Mr. Vijay Kumar)  
Alumnus

(Mr. Suryakiran)  
Alumnus

(Dr. K. Ram Mohan Rao)  
Chairman, BOS





# VASAVI COLLEGE OF ENGINEERING (Autonomous)

9-5-81, Ibrahimbagh, Hyderabad-500031, Telangana, India

(Sponsored by Vasavi Academy of Education)

ACCREDITED BY NAAC WITH 'A++' GRADE

Phone: +91-40-23146003 Fax: +91-40-23146090, +91-40-23146080

Dr. K. Ram Mohan Rao  
Professor & Head, Chairman, BoS

Department of Information Technology  
Phone: +91-40-23146050, 6051

:: 4 ::

## B.E Honours Program:

1. The syllabus of the course titled "Artificial Intelligence: Principles and Techniques (AI&PT)" which is offered in V Semester in R22 has been is modified to avoid the overlap with AIML course in B.E Regular Program and the title of the course is changed to " Computational Intelligence" and accordingly the lab course name is also changed to "Computational Intelligence Lab".
2. It is recommended to rename "Autonomous Navigation Systems" as "Unmanned Autonomous Systems" and the lab name is also changed accordingly as "Unmanned Autonomous Systems Lab".
3. As NNDL Course is now offered as Professional Core in the B.E. Regular Program, and advanced course titled "Reinforcement Learning" is introduced along with the lab, in VII Semester for Honours Program.

## New Course under IT BOS from AY 2023-24 for EEE Department:

1. A course titled "Fundamentals of Data Structures" is offered by the Department of Information Technology from AY 2023-24.
2. Following modifications are suggested to modify the syllabus of "Fundamentals of Data Structures" course.
  - a. Sorting and Searching are to be included in Unit I
  - b. Stacks and Queues are to be merged into one Unit.
  - c. Trees and Graphs are to be discussed in two different units.

## General Comments/ Suggestions:


1. It is recommended to explore the possible collaboration with Cyber Security Cell of Telangana Govt.
2. Include cyber security related courses as part of outreach activity.

## Funding opportunities in the thrust areas of R & D and Consultancy:

- The BOS members appreciated the PIs of the Project on "Drone/UAV Based Multi Sensor High Quality Precision Photogrammetry Laser Mapping and Data Capture, Processing for Geo-Spatial Platforms" worth of 34.7 Lakhs sanctioned by DST and it is advised to plan a connected project proposal with the available results under the National Mission on XXXX in collaboration with IIT Hyderabad.

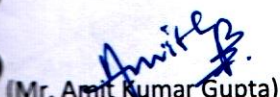
The meeting concluded formally with vote of thanks.

  
(Dr. K. Shyamala)  
University Nominee

  
(Dr. Salman Abdul Moiz)  
Subject Expert from UoH

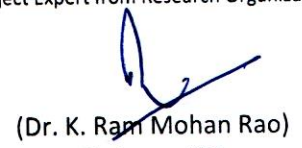
  
(Dr. Bheemarjuna Reddy Tamma)  
Subject Expert from IITH

  
(Dr. Raghavendra Kune)  
Subject Expert from Research Organization

  
(Mr. Amit Kumar Gupta)  
Expert from Industry

(Mr. Vijay Kumar)  
Alumnus

  
(Mr. Suryakiran)  
Alumnus

  
(Dr. K. Ram Mohan Rao)  
Chairman, BOS