

Department of Computer Science & Engineering

Minutes of Board of Studies Meeting

8.06.2020

Department of Computer Science & Engineering has conducted the Board of Studies (BOS) Meeting for the B.Tech Computer Science and Engineering (Artificial Intelligence and Machine Learning) on 8/06/2020 in online mode from 2:00 PM to 4.00 PM.

Agenda of the BOS Meeting:

- Discussions and approval of R-19 B.Tech. CSE (AI&ML) Program Structure and course contents.
- 2. Any other point with the permission of Chair.

Members attended the Meeting:

S.No.	Name	Designation & Affiliation	Details
1	Dr. Venkatesulu Dondeti	Professor & Head, Department of CSE, VFSTR Deemed to be University	BOS Chairman
2	Dr A Chandrasekar Rao	Dr A Chandrasekar Rao Assistant Professor, Department of CSE, IIT (ISM), Dhanbadh	
3	Dr Dilip		External Member
4	Dr Karthik Seshadri	Asst. Prof, CSE, NIT Tadepalligudem	External Member
5	Dr M Srinivas	Asst.Prof, CSE, NIT Warangal	External Member
6	Ms Ashika	Scientist-E, DRDO, Bangolore	
7	Mr I Sai Krishna	Architect, Cargill Incorporation, Bangalore	External Member External Member
8	Dr. K Hemantha Kumar	Professor, Department of CSE, VFSTR Deemed to be University	Internal Member
)	Dr. S V Phani Kumar	Assoc. Professor, Department of CSE, VFSTR Deemed to be University	Internal Member & Coordinator
10	Mrs. B Jyostna Devi	Asst. Professor, Department of CSE, VFSTR Deemed to be University	Internal Member

Following points were discussed in the meeting:

- Dr. Venkatesulu Dondeti, HoD, CSE has invited all the external and internal members and presented the glimpses of R-19 Curriculum of AI & ML.
 - He explained the process followed in the preparation of R-19 Course Contents. R 19 CSE (AI & ML) Course Structure is attached as Annexure I.
- Dr. K Hemantha Kumar has initiated the presentation on the structure of R 19 CSE (Al&ML) Curriculum.
- Dr A Chandrasekar Rao Suggested 'stream data analysis' to be included in Advanced Data Mining Course.

- Dr D Dilip Suggested to include Evolutionary Computing in the place of Genetic Algorithms and its applications and Fuzzy Algorithms and its applications. Also informed to offer this course before "Nature Inspired Computing".
- Dr Karthik Seshadri sSuggested to offer Robotics: Computational Motion Planning as an open elective course offered by Mechanical Department
- Mr I Sai Krishna and Dr A Chandrasekar Rao suggested to include more AI Courses.
 Based on the suggestion, Knowledge Representation and Reasoning is included as core
 Couse

After the brain storming session, all the external and internal members have approved the programme structure and course contents. Dr. Venkatesulu Dondeti adjourned the meeting by thanking all external and internal members of the BOS.

1. Wemans	nle 2.	3.
4.	5.	6.
7.	8. OCHEY	9. S.P. X.
10. B. Jyu		

- 1. Dean, Academics.
- 2. All BOS Members.
- 3. File.



R19 Course Structure

B.Tech. CSE - Artificial Intelligence and Machine Learning

I Year I Semester

Course Title	L	T	P	C
Engineering Mathematics I(C)	3	-	2	4
Engineering Physics (A)	3	-	2	4
Basics of Electrical & Electronics Engineering	3	-	2	4
Engineering Graphics and Design	1	-	2	2
Python Programming	3	-	2	4
Discrete Mathematical Structures	3	-	_	3
Physical fitness, Sports & Games-I	_	-	3	1
Constitution of India	1	20	-	1
Total	17	-	13	23

I Year II Semester

Course Title	L	Т	P	C
Probability and Random Variables	3	1	-	4
Numerical Methods	3	8.70	-	3
Advanced Engineering Mathematics	3 .	-	-	3
Statistical Methods and Data Visualization	3	-	2	4
Workshop	1	-	2	2
English Proficiency and Communication Skills	-	-	2	1
Technical English Communication	2	-	2	3
Physical Fitness, Sports & Games-II		-	3	1
Total	15	1	11	21

II Year I Semester

Course Title	L	Т	P	C
Computer Organization & Architecture	3	_	-	3
Artificial Intelligence	3	-	2	4
OOPs through JAVA	2	_	4	4
Data Structures	3	-	2	4
Database Management Systems	3	-	2	4
Environmental Studies	1	-	-	1
Life Skills – 1	-	-	2	-
Technical Seminar-I	_	-	2	1
Intra-disciplinary Projects-I	-	-	2	1
Physical Fitness, Sports & Games-III	-	-	2	1
Гotal	15	-	18	23

II Year II Semester

Course Title	L	T	P	C
Design & Analysis of Algorithms	3	-	2	4
Machine Learning	3	_	2	4
Formal Languages & Automata Theory	3	-	-	3
Computer Vision	3	-	2	4
Web Technologies	2	-	2	3
Principles of Management & Organizational Behaviour	3	-	-	3
Life Skills – II	-	_	2	1
Technical Seminar-II	-	_	2	1
Intra-disciplinary Projects-II	_	-	2	1
Total	17	-	14	24

III Year I Semester

Course Title	L	Т	P	0
Operating Systems	3	_	-	3
Advanced Data Structures	3	-	2	4
Deep Learning	3	_	2	4
Computer Networks	3	-	2	4
Soft-skills Laboratory	1	_	_	1
Department Elective-I	3	-	2	4
Open Elective-I	3	-		3
Employability skills-I	-	_	2	-
Inter-departmental Projects-I	-	-	4	2
Modular Course	-	-	-	1
Total	19	-	14	26

III Year II Semester

Course Title	L	Т	Р	(
Artificial Intelligence: Knowledge Representation and Reasoning	3	-	2	4
Natural Language Processing	3	-	2	4
Software Engineering	3	-	2	4
Competitive Coding	-	_	2	
Professional Communication Laboratory	-	-	2	1
Human Values, Professional Ethics & Gender Equity	2	_	_	2
Department Elective-II	3	-	_	3
Open Elective-II	3	-	-	3
Employability skills-II	-	_	2	1
Inter-departmental Projects-II	-	-	4	2
Total	17	-	16	25

IV Year I Semester

Course Title	L	Т	P	C
Big Data Analytics	3	-	-	3
Department Elective III	3	-	2	4
Department Elective IV	3	-	-	3
Open Elective III	3	-	- 1	3
Societal-Centric and Industry Related Projects	-	-	6	3
Total	12	-	8	16

IV Year II Semester

Course Title	L	Т	Р	C
Internship / Project work		-	24	12
Total	-	-	24	12

DEPARTMENT ELECTIVE COURSES

Course Title	L	T	P	C
Evolutionary Computing	3	-	2	4
Artificial Intelligence Search Methods For Problem Solving	3	-	2	4
Nature Inspired Computing Techniques	3	_	2	4
Advanced Data Mining	3	_	2	4
Internet of Things	3	_	2	4
Optimization Techniques	3	-	-	3
Cloud Computing	3	_	-	3
Cryptography and Network Security	3	-		3

Chairman, BoS

Q. Veauauruly

CSE- AI&ML



Department of Computer Science and Engineering R19 B.Tech CSE – Artificial Intelligence and Machine Learning

List of new courses

- Statistical Methods and Data Visualization
- Computer Organization & Architecture
- Artificial Intelligence
- Machine Learning
- Computer Vision
- Advanced Data Structures
- Deep Learning
- Artificial Intelligence: Knowledge Representation and Reasoning
- Evolutionary Computing
- Artificial Intelligence Search Methods for Problem Solving
- Nature Inspired Computing Techniques
- Advanced Data Mining
- Optimization Techniques
- Natural Language Processing

2. Ve mealing

Chairman, BoS CSE- AI&ML



Department of Computer Science and Engineering R19 B.Tech CSE – Cyber Security Course Categorization

Course Title	Course Category
Engineering Mathematics I(C)	al in P
Engineering Physics (A)	Skill Development
Racing of Floatsian I & El	Skill Development
Basics of Electrical & Electronics Engineering	
Engineering Graphics and Design	Skill Development
Python Programming	Skill Development
	Employability
Discrete Mathematical Structures	Skill Development
Physical fitness, Sports & Games-I	
Constitution of India	Skill Development
	Skill Development
Probability and Random Variables	
Numerical Methods	Skill Development
	Skill Development
Advanced Engineering Mathematics	Skill Development
Statistical Methods and Data Visualization	Skill Development
Workshop	Skill Development
English Proficiency and Communication Skills	Skill Development
Feehnical English Communication	Skill Development
Physical Fitness, Sports & Games-II	
Computer Organization & Architecture	Skill Development
Artificial Intelligence	Skill Development
OOPs through JAVA	Skill Development
Data Structures	Skill Development Employability
Database Management Systems	Employability
nvironmental Studies	Employability Skill Development
ife Skills – I	Skill Development
echnical Seminar-I	Skill Development
tra-disciplinary Projects-I	Skill Development
avejcal Fitness County & County	Skill Development
nysical Fitness, Sports & Games-III	Skill Development
esign & Analysis of Algorithms	•
tachine Learning	Employability
	Skill Development

Computer Vision	Skill Development
	Skill Development
Web Technologies	2-12-2-10 (3.2)
Principles of Management & Organizational Behaviour	Employability
Life Skills – II	Entrepreneurship
	Skill Development
Technical Seminar-II	
Intra-disciplinary Projects-II	Skill Development
Operating Systems	Skill Development
	Skill Development
Advanced Data Structures	Employability
Deep Learning	Skill Development
Computer Networks	Skill Development
Soft-skills Laboratory	Skill Development
Employability skills-I	
	Employability
nter-departmental Projects-I	Employability
Vodular Course	Employability
Artificial Intelligence: Knowledge Representation and Reasoning	Skill Development
Natural Language Processing	Skill Development
Software Engineering	Skill Development
Competitive Coding	Employability
rofessional Communication Laboratory	Skill Development
luman Values, Professional Ethics & Gender Equity	Skill Development
imployability skills-II	Employability
nter-departmental Projects-II	Employebility
ig Data Analytics	Employability Skill Development
ocietal-Centric and Industry Related Projects	Skill Development
nternship / Project work	Employability
olutionary Computing	Skill Development
tificial Intelligence Search Methods For Problem Solving	Skill Development
ture Inspired Computing Techniques	Skill Development
vanced Data Mining	
	Skill Development

Internet of Things	Skill Development
Optimization Techniques	Skill Development
Cloud Computing	Skill Development
Cryptography and Network Security	Skill Development

Monual Mrs.
Chairman, BoS

CSE-AI&ML