

**VIGNAN'S**

Foundation for Science, Technology & Research

(Deemed to be University)

-Estd. u/s 3 of UGC Act 1956

VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY AND RESEARCH**Department of Advanced Computer Science & Engineering**

Date: 09.05.2023

Department of ACSE is conducting a Board of Studies (BoS) meeting to review the B.Tech CSE – Data Science program curriculum and MSc Data Science program curriculum on 10.05.2023 from 02.00PM in blended mode. (Physical meeting: CSE Conference Hall, Third floor, JC Bose Block, VFSTR and virtual meeting link:

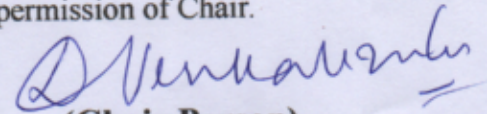
<https://us06web.zoom.us/j/84284813373?pwd=K1VFc200eHRrejFHSjM3QTRpazNIQT09>). All the members of BTech- CSE Data Science Board of Studies are requested to make it convenient to attend the meeting.

S.No.	Name of the Member	Designation & Affiliation	Role
1	Dr. Venkatesulu Dondeti	Professor & Head, Department of ACSE, VFSTR Deemed to be University Contact : 91 98408 50744 Mail : hod_acse@vignan.ac.in	Chair Person
2	Dr B. Jyostna Devi	Asst. Professor, Department of CSE, VFSTR Deemed to be University Contact : 91 73582 09553 Mail : bjd_acse@vignan.ac.in	Secretary (Ex-officio)
3	Prof. C.Raghavendra Rao	Professor SCIS, University of Hyderabad, Hyderabad, Telangana, Email: Crrcs@uohyd.ac.in Mobile: +91 92474 65125	External Member
4	Dr. M.Dinesh	Research Scientist, Philips, Bangalore, Email: dineshmys@gmail.com Mobile: +91 98803 82993	External Member
5	Dr Y Raghu Reddy	Associate Professor, IIIT Hyderabad Mobile: +91 98493 71681 Email:raghu.reddy@iiit.ac.in	External Member
6	Dr. Vinay Kumar N	Data and Analytics Managing Consultant, DIF AIML Team, NTT DATA Services D7 White field Bangalore66 Mobile: 9632454934 Email: N.vinaykumar@nttdata.com	Invited Member
7	M. Venu Gopal	Chief Data Scientist Juxtsmart Mandate Analytics Solutions Pvt. Medeva.io, Padma Rao Nagar Hyderabad Telengana Email: venugopal@jasm.email Mobile: +91 98666 33975	Invited Member

8	Prof. PLN Varma,	Professor & Head, Department of Mathematics and Statistics VFSTR Deemed to be University	Internal Member
9	Dr.P SudhamSekhar,	Associate Professor, Department of Mathematics and Statistics VFSTR Deemed to be University	Internal Member
10	Dr. S Hanumanta Rao	Associate Professor, Department of Mathematics and Statistics VFSTR Deemed to be University	Internal Member (Nominee – Dean R&D)

Agenda of the BoS Meeting:

1. Reviewing the course structure and content introduced in R22 regulation
2. SWAYAM-NPTEL courses identification
3. Formative and summative assessment results
4. Discussion on CO-PO-PSO
5. Fixing the CO-PO-PSO-PEO target values
6. Any other points based on the requirements with the permission of Chair.



(Chair Person)

Dr. Venkatesulu Dondeti

HoD

Dept. of Advanced Computer Science & Engineering

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VADLAMUDI - 522 213

Guntur Dist., A.P., India.

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VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY AND RESEARCH**Department of Advanced Computer Science & Engineering**

Date: 24.05.2023

Minutes of Board of Studies Meeting

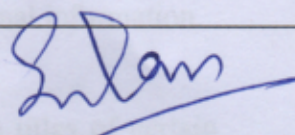
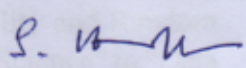

Board of Studies (BoS) meeting of B.Tech., CSE – Data Science and MSc Data Science has been conducted on 10.05.2023 in blended mode from 02.00PM to 05.00 PM. (Physical meeting: CSE Conference Hall, Third floor, JC Bose Block, VFSTR and virtual meeting link: <https://us06web.zoom.us/j/84284813373?pwd=K1VFc200eHRrejFHSjM3QTRpazNIQT09>).

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1. Reviewing the course structure and content introduced in R22 regulation
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6. Any other points based on the requirements with the permission of Chair.

The following members were present either thorough offline or online.

SNo	Name of the Member	Role	Mode of Presence / Signature
1	Dr. Venkatesulu Dondeti Professor & Head, Department of ACSE, VFSTR Deemed to be University Contact: 91 98408 50744 Mail: hod_acse@vignan.ac.in	Chair Person	
2	Dr B. Jyostna Devi Asst. Professor, Department of CSE, VFSTR Deemed to be University Contact: 91 73582 09553, Mail: bjd_acse@vignan.ac.in	Secretary (Ex-officio)	
3	Prof. C.Raghavendra Rao, Professor SCIS, University of Hyderabad, Hyderabad, Telangana, Email: Crrcs@uohyd.ac.in, Mobile: +91 92474 65125	External Member	online
4	Dr. Vinay Kumar N, Data and Analytics Managing Consultant, DIF AIML Team, NTT DATA Services D7 White field Bangalore66 Mobile: 9632454934 Email: N.vinaykumar@nttdata.com	External Member	online
5	M. Venu Gopal, Chief Data Scientist	External Member	online

	Juxtsmart Mandate Analytics Solutions Pvt. Medeva.io, Padma Rao Nagar, Hyderabad Telengana, Email: venugopal@jism.email , Mobile: +91 98666 33975		
6	Dr.P SudhamSekhar, Associate Professor, Department of Mathematics and Statistics VFSTR Deemed to be University	Internal Member	
7	Dr. S Hanumanta Rao, Associate Professor, Department of Mathematics and Statistics VFSTR Deemed to be University	Internal Member	
8	Dr Bala Krishna S, Asst. Professor, Department of CSE, VFSTR Deemed to be University Contact: 91 94415 40580 Mail : drsbk_acse@vignan.ac.in	Internal Member	

The following members were not present due to their busy schedules.

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1	Dr. M.Dinesh, Research Scientist, Philips, Bangalore, Email: dineshmys@gmail.com , Mobile: +91 98803 82993	External Member
2	Dr Y Raghu Reddy, Associate Professor, IIIT Hyderabad Mobile: +91 98493 71681, Email: raghu.reddy@iiit.ac.in	External Member
3	Prof. PLN Varma, Professor & Head, Department of Mathematics and Statistics, VFSTR	Internal Member

Chairperson Dr. Venkatesulu Dondeti, Professor and Head, department of CSE, VFSTR initiated the meeting by welcoming and introducing the external members, invitees to the internal members. Secretary Dr. Jyostna Devi Bodapati, Assistant professor, department of ACSE, VFSTR presented the program curriculum along with course content to the board.

The following points were discussed in the BoS meeting:

1. Review of R22 CSE-AIML curriculum
2. SWAYAM-NPTEL courses identification
3. Formative and summative assessment results
4. Discussion on CO-PO-PSO
5. CO-PO-PSO-PEO target values

The following resolutions are incorporated after the discussion:

1. Member secretary, Mrs. B. Jyostna Devi initiated the presentation on the R22 CSE-AIML Curriculum. The External Board members expressed their opinion that the overall course structure of the program and the content of the courses are well-designed and are sufficient for the program at under graduate level. They provided a few suggestions to further improve the quality of the existing curriculum.

- Introduction to Data Analytics
- Python for Data Science

2. Prof. C.R.Rao enquired about the allocation of 1 credit for 3 practice hours for the courses Physical Fitness Sports and Games - I and Physical Fitness Sports and Games - II. Internal board provided the necessary clarifications and details to address their concerns. They explained the rationale behind the credit allocation and provided additional information.
3. During the BoS meeting, the External Board suggested changing the titles of certain courses. Specifically, they proposed changing the course title "Probability and Random Variables" to "probability and statistical analysis", "Philosophy of Data Science" to "Data Science Applications", "Artificial Intelligence" to "Artificial Intelligence search strategies" and "Statistical Foundations" to "Advanced Statistical Methods". They suggested to add one statement in the regulation that three hours of practice for these courses is considered as one credit. Internal members of the BoS accepted these suggestions and updated the course titles accordingly.
4. Dr N Vinay proposed that courses such as Agile Methodologies, MLOps, Research Methodologies, Large Language Models, Prompt Engineering, Business Intelligence hold significant value and relevance in the professional landscape of Data Science. The internal team acknowledged this suggestion and agreed that these courses could be included as value-added courses.
5. Prof. C.R.Rao and Dr. Venugopal suggested that core courses like Database Management Systems, Operating Systems, Digital Logic, and Computer Organization be offered during the first two years of the BTech CSE Data Science program, rather than in the later years. They recommended this rearrangement of the course sequence to ensure that students have a strong foundation in these fundamental subjects early on in their studies.
6. Dr. Vinay proposed the inclusion of Biometrics Applications and Knowledge Representation and Reasoning courses as part of the department electives. Additionally, Dr. Vinay suggested moving the course on Artificial Intelligence search strategies from the core curriculum to the elective offerings. Board accepted this as these recommendations aim to provide students with a wider range of elective options and enhance their knowledge in specialized areas of interest within the field of data science.
7. After thorough discussions and consultations between the internal and external board, the following honour courses were finalized: Multi-Variate Analysis, Visual Analytics, Data Clustering, and Kernel Methods for Pattern Analysis. These courses have been carefully selected to provide students with advanced knowledge and skills in specific areas of data science.
8. After thorough discussions, the board has decided to consider the following SWAYAM-NPTEL courses for inclusion:
 - Data Science for Engineers
 - Introduction to Data Analytics
 - Python for Data Science

- Programming, Data Structures, and Algorithms in Python
- Reinforcement Learning
- Learning Analytics Tools
- Probability for Computer Science

These courses cover a wide range of topics relevant to data science and provide valuable knowledge and skills in areas such as data analytics, programming, machine learning, and probability. These courses can enhance their understanding and expertise in the field.

9. At the end there was a discussion on Course Outcomes (CO), Program Outcomes (PO), Program Specific Outcomes (PSO), Formative Assessment results, Summative Assessment results, and the target values for CO-PO-PSO-PEO were decided.

Based on the suggestions given by the members, the Chairperson of BoS told that, these fruitful suggestions would be considered in the curriculum and syllabi of the regulation R22.

There being no further points for discussion, the Chairperson thanks all the external, internal, invited members and announced that the meeting was adjourned.

Member Secretary Chairperson

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