VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be University)
-Estd. u/s 3 of UGC Act 1956

DEPARTMENT OF ADVANCED COMPUTER SCIENCE & ENGINEERING

CIRCULAR

Date: 20.01.2025

Department of ACSE scheduled Board of Studies (BoS) meeting for the B.Tech Computer Science and Business Systems programme on 20.01.2025 from 10.00AM in blended mode. (Physical meeting: Room No:602, sixth floor, Nagarjuna Block, VFSTR and virtual meeting: https://us06web.zoom.us/j/4576585062?pwd=SCt6dTc5ckRSVld2ZHRsa2JFZStWQT09&omn=83893460044) All the members are requested to make it convenient to attend the meeting.

1	Dr. D Radha Rani	Associate Professor & Head, Department of ACSE,VFSTR Deemed to be University Contact : 91 9676354404	Chair Person
2	Dr. Venkatesulu Dondeti	Addl.Dean & Professor, Department of ACSE,VFSTR Deemed to be University Contact : 91 9840850744	Special invitee
3	Mr. DS Bhupal Naik	Asst. Professor, Department of ACSE, VFSTR Deemed to be University Contact : 91 9550367172	Secretary (Ex-officio)
4	Mr. Magesh	Regional head, TCS Contact : 91 9008182063	External Member
5	Dr. MM Naidu	Professor (Rtd) and former Principal, SVU college of Engineering, Tirupati, Andhra Pradesh Contact : 91 9848348473	External Member
6	Dr. Chalam	Professor (Rtd), Department of Management Acharaya Nagarjuna University, Andhra Pradesh	Invited Member
7	Dr MVP Chandra Sekhara Rao	Professor & Head, Department of CSBS & DS RVR & JC college of Engineering, AP Contact : 91 9849403801	Invited Member
8	Dr. Nirupama Bhat M	Professor, Department of ACSE, VFSTR Deemed to be University Contact : 91 99088 23834	Internal Member

9	Dr. B. Jyostna Devi	Asst. Professor, Department of ACSE, VFSTR Deemed to be University Contact : 91 73582 09553	Internal Member (Nominee – Dean R&D)
10	Mrs. S Radha Rani	Asst. Professor, Department of ACSE, VFSTR Deemed to be University Contact: 91 9493670612	Internal Member (Nominee – School Dean)
11	Dr Arnab De	Asst. Professor, Department of ACSE, VFSTR Deemed to be University Contact: 91 9614547390	Internal Member

Agenda of the BoS Meeting:

1. Discussions and approval of R22 – C24 B.Tech. Computer Science and Business Systems Program Structure.

2. Discussion on revision of R22 – C24 B.Tech. Computer Science and Business Systems course contents.

3. Discussion on addition of additional Department electives, open electives and the fulfillment of pre-requisites for department electives.

4. Analysis of the feedback collected from various stakeholders such as Alumni, Employers, Faculty, Parents and Students during the academic year 2023-24 AND/OR 2024-25.
5. Approval of NPTEL courses
6. Approval of L-T-P structure change or any credit change courses, if any
7. Approval of Honor/minor/department elective/open elective courses, if any
8. Discussion of results-FA, SA, grades
9. Discussion of attainments – process, rubrics, CO/PO/PSO and SO values.
10. Any other point with the permission of Chair.

Chairperson

Date: 20.01.2025

Minutes of Board of Studies Meeting

Board of Studies (BoS) meeting of B.Tech., Computer Science and Business Systems programme was conducted on 20.01.2025 in blended mode from 10.00AM onwards. (Physical meeting : Room No:602, sixth floor, Nagarjuna Block, VFSTR and virtual meeting link : https://us06web.zoom.us/j/4576585062?pwd=SCt6dTc5ckRSVld2ZHRsa2JFZStWQT09&omn=83893460044).

Agenda of the BoS Meeting:

1. Discussions and approval of R22 – C24 B.Tech. Computer Science and Business Systems Program Structure.

2. Discussion on revision of R22 – C24 B.Tech. Computer Science and Business Systems course contents.

3. Discussion on addition of additional Department electives, open electives and the fulfillment of pre-requisites for department electives.

4. Analysis of the feedback collected from various stakeholders such as Alumni, Employers, Faculty, Parents and Students during the academic year 2023-24 AND/OR 2024-25.
5. Approval of NPTEL courses
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7. Approval of Honor/minor/department elective/open elective courses, if any
8. Discussion of results-FA, SA, grades
9. Discussion of attainments – process, rubrics, CO/PO/PSO and SO values.
10. Any other point with the permission of Chair.

The following members were present either thorough offline or online.

SL.No.	Name and Designation of the member	Position	Signature
1	Dr. D Radha Rani Associate Professor & Head, Department of ACSE,VFSTR Deemed to be University Contact : 91 9676354404	Chair Person	
2	Dr. Venkatesulu Dondeti Professor & Head, Department of ACSE, VFSTR Deemed to be University	Special invitee	
3	Mr. DS Bhupal Naik Asst. Professor, Department of ACSE, VFSTR Deemed to be University	Secretary (Ex-officio)	
4	Mr. Magesh Regional head, TCS	External Member	
5	Dr. MM Naidu Professor (Rtd) and former Principal,	External Member	

SL.No.	Name and Designation of the member	Position	Signature
	SVU college of Engineering, Tirupati, AP		
6	Dr. Chalam Professor (Rtd), Department of Management Acharaya Nagarjuna University, AP	Invited Member	
7	Dr MVP Chandra Sekhara Rao Professor & Head, Department of CSBS & DS RVR & JC college of Engineering, AP	Invited Member	
8	Dr. Nirupama Bhat M Professor, Department of ACSE, VFSTR Deemed to be University	Internal Member	
9	Dr. B. Jyostna Devi Asst. Professor, Department of ACSE, VFSTR Deemed to be University	Internal Member (Nominee – Dean R&D)	
10	Mrs. S Radha Rani Asst. Professor, Department of ACSE, VFSTR Deemed to be University	Internal Member (Nominee – School Dean)	
11	Dr Arnab De Asst. Professor, Department of ACSE, VFSTR Deemed to be University	Internal Member	

The following members have taken leave of absence:

SL.No.	Name and Designation of the member	Position	Signature
4	Mr. Magesh Regional head, TCS	External Member	
8	Dr. Nirupama Bhat M Professor, Department of ACSE, VFSTR Deemed to be University	Internal Member	
9	Dr. B. Jyostna Devi Asst. Professor, Department of ACSE, VFSTR Deemed to be University	Internal Member (Nominee – Dean R&D)	
11	Dr Arnab De Asst. Professor, Department of ACSE, VFSTR Deemed to be University	Internal Member	

Chairperson Dr. D Radha Rani, Associate Professor and Head, department of ACSE, VFSTR opened the meeting by welcoming the external members, invitees to the internal members. Secretary, Mr. DS Bhupal Naik, Assistant Professor. Department of ACSE, VFSTR presented the B.Tech. Computer Science and Business Systems Program sponsored by TCS program curriculum along with the contents to the board members.

The following points were discussed in the BoS meeting:

1. Discussions and approval of R22 B.Tech. Computer Science and Business Systems Program Structure.
2. Discussion on revised curriculum of R22 – C24 B.Tech. Computer Science and Business Systems Curriculum structure and course contents.
3. Discussion on addition of additional Department electives, open electives and the fulfillment of pre-requisites for department electives

4. Approval of L-T-P structure change or any credit change courses, if any
5. Discussion on addition of additional department electives, open electives and the fulfillment of pre-requisites for department electives.
6. Approval of NPTEL courses
7. Approval of Honor/minor/department elective/open elective courses, if any
8. Any other point with the permission of Chair.

The following resolutions made after the discussion:

1. Secretary, Mr. DS Bhupal Naik has initiated the presentation on Revision of R22 – C24 of B.Tech CSE- CSBS 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.
2. Internal BoS members proposed to offer Machine Learning course in VIIth semester, But, Board recommended to offer it in Vth or VIth semester. The suggestion was accepted by the external BoS members and done modifications accordingly.
3. Board recommended to offer the "Optimization Techniques" course as a professional core course rather than as a Department Elective. The suggestion was accepted by the internal BoS members and done modifications accordingly.
4. Dr. Chalam, External BoS members have advised to rename the course title as "Perspectives of management" in place of "Fundamentals of Management". The board have agreed and the suggestion was accepted by the internal BoS members and done modifications accordingly.
5. Board recommended to re structure the course contents and also the title of the course "Financial and Cost Accounting" that should be in line with the solving problems of Business systems. The suggestion was accepted by the internal BoS members and done modifications accordingly.
6. Internal BoS members proposed to offer HR analytics instead of Human Resource Management. The suggestion was accepted by the External BoS members and done modifications accordingly.
7. BoS Members approved the revised regulations, curriculum structure, syllabus of B.Tech., CSE-CSBS programme and it follows based on the NEP 2020. Curriculum structure is provided in Appendix-I.
8. Major restructuring has taken place in the curriculum by increasing 5% of courses under Basic Sciences category which is oriented towards continuous learning and assessment based on Module structure.
9. Major reformation has taken place in the curriculum by offering Honours/Specialization degree or Minor degree through additional 20 more credits with additional courses.
10. The board members suggested few SWAYAM-NPTEL courses to be included in the curriculum, recognizing their relevance and potential to enhance the students' knowledge and skills in the field of data analytics and decision making. After thorough discussion following courses are recommended: Data analytics, Business Intelligence, Power BI, Customer Relation Management, AI for Investments, E-Business. Board accepted the comments, and it has been considered.

Based on the feedback from various stakeholders and suggestions given by the members, the Chairperson of BoS told that, those fruitful suggestions would be incorporated appropriately in the curriculum and syllabi of the regulation R22 – C24 and this will be recommended to the Academic Council of VFSTR for the approval.

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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DEPARTMENT OF ADVANCED COMPUTER SCIENCE AND ENGINEERING

APPENDIX I
Computer Science and Business Systems: Curriculum Structure

I Year I Semester

Sl. No.	Course Code	Course Title	L	T	P	C	Course Category
1		Mathematics-I				4	Basic Sciences
2		Physics				4	Basic Sciences
3		Basics of Electrical and Electronics Engineering				3	Basic Engineering
4		Programming in C				4	Basic Engineering
5		IT Tools and Cyber Security				2	Basic Engineering
6		English Proficiency and Communication Skills(PET)				1	Humanities
7		Environmental Studies				3	Basic Sciences
8		Constitution of India				1	Audit Course
9		Orientation Session -1				1	Audit Course
10		Physical Fitness				1	Audit Course
		Total				**24**	
		Total				**24**	

L=Lecture; T= Tutorial; P= Practical; C=Credits

I Year II Semester

Sl. No.	Course Code	Course Title	L	T	P	C	Course Category
1		Mathematics-II				4	Basic Sciences
2		Chemistry				4	Basic science
3		Engineering Graphics				3	Basic Engineering
4		Python Programming				3	Basic Engineering
5		Technical English Communication				3	Humanities
6		Management Science				3	Basic Sciences
7		Indian Knowledge Systems –Dept Specific				1	Audit Course
8		Orientation Session -2				1	Audit Course
		Universal Human Values				1	Audit Course
		Total				**23**	
		Total				**23**	

L=Lecture; T= Tutorial; P= Practical; C=Credits

II Year I Semester

Sl. No.	Course code	Course Title	L	T	P	C	Course Category
1	22MT104	Discrete Mathematics	2	2	0	3	Basic Sciences
2		Data Structures and Algorithms				4	Basic Engineering
3		Introductory Topics in Statistics, Probability and Calculus				4	Basic Sciences
4		Digital Logic and Computer Organization	2	2	0	3	Professional Core
5	22CB203	Formal Languages & Automata Theory	2	2	0	3	Professional Core
6	22CB202	Database Management Systems	2	2	2	4	Professional Core
7		Design Thinking & Engineering Orientation				1	
8		Life Skills					
		Total	**14**	**10**	**10**	**23**	**-**
		Total		**34**		**23**	**-**

L=Lecture; T= Tutorial; P= Practical; C=Credits

II Year II Semester

Sl. No.	Course code	Course Title	L	T	P	C	Course Category
1	22ST205	Computational Statistics	3	0	2	4	Basic Sciences
2		Field Projects / IDP	0	0	2	1	Project
3	22CB204	Object Oriented Programming	2	2	2	4	Professional Core
4	22CB208	Operating Systems	2	2	2	4	Professional Core
5	22CB209	Software Engineering	2	2	2	4	Professional Core
6		Open Elective – 1 (NPTEL)	3	0	0	3	Open Elective
		Total				20	
7		Minor / Honors – 1	**3**	**0**	2	**4**	
		Total	**15**	**6**	**12**	**24**	**-**
		Total		**33**		**24**	**-**

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III Year I Semester

Sl. No.	Course Code	Course Title	L	T	P	C	Course Category
1		BEC Certification	0	0	2	1	Humanities
2		Modern Web Applications	2	0	4	4	Professional Core
3		Artificial Intelligence	3	0	2	4	Professional Core
4		Soft Skills Laboratory	0	0	2	1	Professional core
6		Industry Interface Course (Modular Course)	1	0	0	1	Binary Grades
7		Department Elective – 1	3	0	2	4	Department Elective
7		Department Elective – 2	2	0	2	3	Department Elective
8		Open Elective – 2	3	0	0	3	Open Elective
		Total	**14**	**0**	**14**	**21**	
10		Minor / Honors – 2	**3**	**0**	**2**	**4**	
		Total	**17**	**0**	**16**	**25**	
		Total		**33**		**25**	

L=Lecture; T= Tutorial; P= Practical; C=Credits

III Year II Semester

Sl. No.	Course Code	Course Title	L	T	P	C	Course Category
1		Quantitative Aptitude & Logical Reasoning	0	2	0	2	Humanities
2		Machine Learning	3	0	2	4	Professional core
3		Computer Networks	2	2	2	4	Professional core
4		Business Strategy	3	0	0	3	Professional core
5		Field Project / Inter-Disciplinary Project	0	0	2	1	Project
6		Department Elective – 3	3	0	2	4	Department Elective
7		Open Elective – 3	3	0	0	3	Open Elective
		Total	**14**	**4**	**8**	**21**	
8		Minor / Honors – 3	**3**	**0**	**2**	**4**	
		Total	**17**	**4**	**10**	**25**	
		Total		**31**		**25**	

L=Lecture; T= Tutorial; P= Practical; C=Credits

IV Year I Semester

Sl. No.	Course Code	Course Title	L	T	P	C	Course Category
		Professional Ethics	2	0	0	2	Humanities
1		Information Security	3	0	2	4	Professional core
2		Services Sciences and Service Operational Management	2	2	0	3	Professional core
3		Department Elective – 4	3	0	2	4	Department Elective
4		Department Elective – 5	3	0	2	4	Department Elective
5		Department Elective – 6	3	0	2	4	Department Elective
		Total	**16**	**2**	**8**	**21**	
6		Minor / Honors – 4	**3**	**0**	**2**	**4**	
		Total	**19**	**2**	**10**	**25**	
		Total		**31**		**25**	

L=Lecture; T= Tutorial; P= Practical; C=Credits

IV Year II Semester

Sl. No.	Course Code	Course Title	L	T	P	C	Course Category
1		Project Work	0	2	22	12	Project
		Total	**0**	**2**	**22**	**12**	
2		Minor / Honors – 5	**0**	**2**	**6**	**4**	
		Total	**0**	**4**	**28**	**16**	
		Total		**32**		**16**	

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List of Department Electives

Sl. No.	Course Title	L	T	P	C	Pre-requisite Knowledge
1	Financial Management	2	2	0	3	
2	Human Resource Analytics	2	2	0	3	
3	Machine Learning	3	0	2	4	
4	Usability design of software applications	3	0	2	4	
5	Introduction to IOT	3	0	2	4	
6	Big Data Analytics	3	0	2	4	
7	Data Science using Python	2	2	2	4	
8	Enterprise systems	3	2	0	4	

			L	T	P	C	
9	Marketing Research and Marketing Management	2	2	0	3	
10	Introduction to Innovation, IP Management and Entrepreneurship	2	2	0	3	
11	Augmented Reality and virtual Reality	2	2	0	3	
12	Mobile Computing	3	0	2	4	
13	Cryptology	3	2	0	4	
14	Image Processing and pattern Recognition	3	0	2	4	
15	Simulation and Modelling	3	2	0	4	
16	Java Programming	3	0	2	4	
17	Behavioural Economics	2	2	0	3	
18	Advance Finance	2	2	0	3	

List of Honors Courses

Sl. No.	Course Code	Course Title	L	T	P	C
1		Optimization Techniques	3	2	0	4
2		Image Processing and pattern Recognition	3	0	2	4
3		Deep Learning	3	0	2	4
4		Block Chain Technology	3	0	2	4
5		Capstone Project	0	2	6	4

LIST OF NPTEL Courses:

- Business analytics and data mining Modeling using R
- Data Analytics with Python,
- Data analytics,
- Business Intelligence
- Power BI
- Customer Relation Management
- AI for Investments
- E-Business.

List of Minor Courses:

No minor courses are offered specific to the programme and are offered at department level

Chairperson

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DEPARTMENT OF ADVANCED COMPUTER SCIENCE & ENGINEERING

CIRCULAR

Date: 18.01.2025

Department of ACSE is going to conduct Board of Studies (BoS) meeting for the B.Tech Computer Science and Business Systems programme on 2**0.01.2025** from 10.00AM in blended mode. (Physical meeting : Room No:602, sixth floor, Nagarjuna Block, VFSTR and virtual meeting link : https://us06web.zoom.us/j/4576585062?pwd=SCt6dTc5ckRSVld2ZHRsa2JFZStWQT09&omn=89901768226). All the members are requested to make it convenient to attend the meeting.

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6	Dr MVP Chandra Sekhara Rao	Professor & Head, Department of CSBS & DS RVR & JC college of Engineering, AP Contact : 91 9849403801 Mail : mvpc@rvrjc.ac.in	Invited Member
7	Dr. Nirupama Bhat M	Professor, Department of ACSE, VFSTR Deemed to be University Contact : 91 99088 23834 Mail : drmnb_acse@vignan.ac.in	Internal Member

8	Dr. B. Jyostna Devi	Asst. Professor, Department of ACSE, VFSTR Deemed to be University Contact : 91 73582 09553 Mail : bjd_acse@vignan.ac.in	Internal Member (Nominee – Dean R&D)
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Agenda of the BoS Meeting:

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Chairperson