



RV College of Engineering, Bangalore

JOINT BOS Meetings

Sl. No.	Details of Joint BoS	Date	Page No.
1	Joint BoS Meeting – UG 2018 Scheme	03.03.2020	1-10
2	Joint BoS Meeting – PG 2022 Scheme	10.11.2022	11-19
3	Joint BoS Meeting – UG 2021 & 2022 Schemes	20.02.2024 21.02.2024	20-27

**NEW COURSES COMMON TO ALL PROGRAMS****(2018-2023)**

The following are the new courses added in the curricula in the respective curricular revisions made in 2018, 2021 and 2022 schemes. Curricular revisions were discussed thoroughly at the respective Board of Studies meetings. The new courses added are reflected in the revised curricula with the course codes.

Sl. No.	Title of the new course added	Course code	Scheme in which the new course is added
1.	Engineering Physics	18PHY12/22	2018
2.	Engineering Chemistry	18CH12/22	2018
3.	Engineering Mathematics-I	18MA11	2018
4.	Engineering Mathematics-II	18MA21	2018
5.	Elements of Engineering Practices	18EE15	2018
6.	The Joy of Computing with Python	18CS5A5	2018
7.	Fundamentals of Aerospace Engineering	18G5B01	2018
8.	Nanotechnology	18G5B02	2018
9.	Fuel Cell Technology	18G5B03	2018
10.	Intelligent Systems	18G5B04	2018
11.	Remote Sensing and Geographic Information System	18G5B05	2018
12.	Automotive Electronics	18G5B06	2018
13.	e-Mobility	18G5B07	2018
14.	Smart Sensors & Instrumentation	18G5B08	2018
15.	Operations Research	18G5B09	2018
16.	Management Information Systems	18G5B10	2018
17.	Automotive Mechatronics	18G5B11	2018
18.	Telecommunication systems	18G5B12	2018
19.	Quantum Mechanics of Hetero/Nano Structures	18G5B13	2018
20.	Thin Films and Nanotechnology	18G5B14	2018
21.	Advances in corrosion science and technology	18G5B15	2018
22.	Computational Advanced Numerical Methods	18G5B16	2018
23.	Mathematics to Machine Learning	18G5B17	2018
24.	Engineering Economy	18G5B18	2018
25.	Aircraft Systems	18G6E01	2018
26.	Bio Inspired Engineering	18G6E02	2018
27.	Sustainable Technology	18G6E03	2018
28.	Graph Theory	18G6E04	2018
29.	Disaster Management	18G6E05	2018

30.	Wearable Electronics	18G6E06	2018
31.	Energy Auditing and Management	18G6E07	2018
32.	Virtual Instrumentation & Applications	18G6E08	2018
33.	Systems Engineering	18G6E09	2018
34.	Introduction To Mobile Application Development	18G6E10	2018
35.	Industrial Automation	18G6E11	2018
36.	Mobile Network System And Standards	18G6E12	2018
37.	Thin Film Nano Device Fabrication Technology	18G6E13	2018
38.	Chemistry of advanced energy storage devices for E-Mobility	18G6E14	2018
39.	Advanced Statistical Methods	18G6E15	2018
40.	Mathematical Modelling	18G6E16	2018
41.	Foundational course in Entrepreneurship	18G6E17	2018
42.	Unmanned Aerial Vehicles	18G7H01	2018
43.	Bioinformatics	18G7H02	2018
44.	Industrial Safety And Risk Management	18G7H03	2018
45.	Web Programming	18G7H04	2018
46.	Solid Waste Management And Statutory Rules	18G7H05	2018
47.	Image Processing And Machine Learning	18G7H06	2018
48.	Renewable Energy Sources And Storage System	18G7H07	2018
49.	MEMS & Applications	18G7H08	2018
50.	Project Management	18G7H09	2018
51.	Cyber Forensics And Digital Investigations	18G7H10	2018
52.	Robotics And Automation	18G7H11	2018
53.	Space Technology And Applications	18G7H12	2018
54.	Introduction To Astrophysics	18G7H13	2018
55.	Materials For Advanced Technology And Spectroscopic Characterization	18G7H14	2018
56.	Applied Psychology For Engineers	18G7H15	2018
57.	Advanced Course In Entrepreneurship	18G7H16	2018
58.	Business Analytics	18CS2G01	2018
59.	Industrial & Occupational Health and Safety	18CV2G02	2018
60.	Modeling using Linear Programming	18IM2G03	2018
61.	Project Management	18IM2G04	2018
62.	Energy Management	18CH2G05	2018
63.	Industry 4.0	18ME2G06	2018
64.	Advanced Materials	18ME2G07	2018

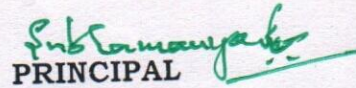
65.	Composite Materials Science and Engineering	18CHY2G08	2018
66.	Physics of Materials	18PHY2G09	2018
67.	Advanced Statistical Methods	18MAT2G10	2018
68.	Multivariable Calculus	21MA11	2021
69.	Engineering Mechanics	21CV14/24	2021
70.	IDEA Lab	21ME15/25	2021
71.	Differential Equations & Numerical Methods	21MA21	2021
72.	Summer Internship- I	21ETI310	2021
73.	Fundamentals of Linear Algebra, Calculus And Numerical Methods	22MA11A	2022
74.	Fundamentals of Linear Algebra, Calculus And Differential Equations	22MA11B	2022
75.	Fundamentals of Linear Algebra, Calculus And Statistics	22MA11C	2022
76.	Applied Mathematics in I	22MA11D	2022
77.	Vector Calculus, Laplace Transform And Numerical Methods	22MA21A	2022
78.	Vector Calculus And Computational Methods	22MA21B	2022
79.	Number Theory, Vector Calculus And Computational Methods	22MA21C	2022
80.	Applied Mathematics in II	22MA21D	2022
81.	Condensed Matter Physics For Engineers	22PHY12A	2022
82.	Classical Physics For Engineers	22PHY12B	2022
83.	Quantum Physics For Engineers	22PHY12C	2022
84.	Applied Physics For Engineers	22PHY12D	2022
85.	Chemistry of Smart Materials And Devices	22CHY12A	2022
86.	Engineering And Environmental Chemistry	22CHY12B	2022
87.	Chemistry of Functional Materials	22CHY12C	2022
88.	Chemistry of Engineering Materials	22CHY12D	2022
89.	Basic Electronics	22EC13	2022
90.	Introduction to Python Programming	22PL15A/25A	2022
91.	Introduction to Web Programming	22PL15B/25B	2022
92.	Basics to Java Programming	22PL15C/25C	2022
93.	Introduction to C++ Programming	22PL15D/25D	2022
94.	Introduction to Internet of Things	22EM101/201	2022
95.	Introduction to Drone Technology	22EM102/202	2022
96.	Bioinspired Engineering	22EM103/203	2022
97.	Global Climate Change	22EM104/204	2022
98.	Elements of Blockchain Technology	22EM105/205	2022
99.	Introduction to Cyber Security	22EM106/206	2022
100.	Green Buildings	22EM107/207	2022

101.	Infrastructure For Smart Cities	22EM108/208	2022
102.	Fundamentals of Nanoscience and Technology	22EM109/209	2022
103.	Fundamentals of Semiconductor Devices	22EM110/210	2022
104.	Introduction to Embedded Systems	22EM111/211	2022
105.	Renewable Energy Sources	22EM112/212	2022
106.	Fundamentals of Sensor Technology	22EM113/213	2022
107.	Human Factors in Engineering	22EM114/214	2022
108.	Digital Humanities	22EM115/215	2022
109.	Smart Materials and Systems	22EM116/216	2022
110.	Elements of Industry 4.0	22EM117/217	2022
111.	Bioinspired Engineering	22BT2D01T	2022
112.	Health Informatics	22BT2D02T	2022
113.	Intelligent Transportation Systems	22CV2D05T	2022
114.	Electronic System Design	22EC2D06T	2022
115.	Evolution of Wireless Technologies	22EC2D07T	2022
116.	Tracking and Navigation Systems	22ET2D08T	2022
117.	Database and Information Systems	22IS2D10T	2022
118.	Management Information Systems	22IS2D11T	2022
119.	Statistical and Optimization Methods	22MAT2D12T	2022



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RVCE / DA	197	2019 - 2020	Monday, March 9, 2020
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CIRCULAR

Sub: Joint BOS meeting minutes:

Please find attached for minutes of joint Board of Studies meeting held on 3rd March 2020.

Corrections/Addition/Deletion of points if any may be brought to the notice of the signatory.


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RV College of Engineering
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2. HOD's for information and needful;
3. Deans and Associate Deans for information and needful;
4. Controller of Examination for information and needful.



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MINUTES OF JOINT BOS MEETING

Date: 03.03.2020

Time: 02.30PM

Venue: Board Room, Administrative Block, RVCE

The following points were discussed in the joint BoS meeting held on 3rd March 2020:

Agenda #	Discussions and Resolutions
1	Read and record the minutes of previous meetings;
	<ul style="list-style-type: none"> Principal welcomed all HoD's for Joint BoS meeting.

Agenda #	Discussions and Resolutions
2	Global Electives offered by the Program for 2018 scheme
	<ul style="list-style-type: none"> Incharge HoD, Civil listed the global electives for V and VI semesters as follows, V semester – Remote Sensing and geographical information systems, VI Semester – Disaster Management (curriculum to be looked into) HoD – Mathematics offering global electives –Machine learning -V sem, Non Liner Optimization Mathematical Modelling - VI Sem HoD – Physics – Global electives for V sem Thin film nanotech, VI sem – Thin film from device fabrication Technology to look for title change HoD Mechanical listed the professional elective and global electives for V and VI sem, Industrial automation for V sem, Thermal Management for VI sem HoD Telecommunication listed the Professional electives in VI sem, global electives V sem – Telecommunication systems, VI sem Mobile Network (except TC and EC), ENN common to TC, ECE standards) HoD, Aerospace Engineering – V sem Fundamentals of Aerospace Engineering, VI sem – Aircraft Systems HoD Biotech told about V and VI sem global elective as Nano Technology (V) and Bio inspired Engineering (VI Sem) list of electives for C and D group VI Sem HoD chemical listed the Global electives for V and VI sem . V sem Fuel Cell Technology, VI Sem Sustainable Technology.



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- Dr. Ramakanth HoD, CSE told about global electives. V sem Data Structures and Applications to be removed, VI Sem Application programming title python title should be changed.
- Dr. Geetha HoD ECE briefed about the proposed new courses **Digital Signal Processing and Machine learning, Radio Frequency and millimeter wave IC design**. Number of electives in each group was agreed to be brought down to five.
- HoD Electrical listed the MOOCS courses for 12 weeks
 - V sem global elective **Mobility** as title
 - VI sem global elective **Energy Management**
- HoD E&I listed the **electives (group A) MOOCS courses**
- HoD IEM listed the global electives as **Operational Research (V sem) and Systems Engineering for VI Sem**

Agenda #	Discussions and Resolutions
3	Professional Electives offered by the Program
	<ul style="list-style-type: none"> • All the HoD's of various programs listed the Group C and D local electives for VI Semester 2018 scheme. They also discussed regarding MOOC courses for their respective programmes. • Principal insisted a common course as Internet of Things, IoT. • Numerical Methods in Civil Engineering to be removed as local elective • Numerical Methods in Chemical Engineering to be removed as local elective

Agenda #	Discussions and Resolutions
4	Courses offered by the program which are common to other program
	<ul style="list-style-type: none"> • Professional elective – CSE, ISE, EEE, ECE, E&I and IEM • Machine learning group D – VI Sem Civil and 11 other programmes • Principal insisted to have discussion among HoD's of various programmes having common electives.



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Agenda #	Discussions and Resolutions
5	Inclusion of ML, DL and AI courses in Program curriculum
	<ul style="list-style-type: none"> Principal insisted to include thrust areas like Machine Learning, Deep Learning, Artificial Intelligence, Robotics and Cloud Computing in the curriculum of V and VI Semester 2018 scheme, and instructed HoD CSE to offer IoT and ML as PE in 6th semester from CSE board

Agenda #	Discussions and Resolutions
6	List of online MOOCS courses offered in 5 th Sem group A electives
	<ul style="list-style-type: none"> Principal insisted to have MOOC courses of 12 week duration during July – December period. HoD's of all the programmes listed the MOOC courses which are likely to be taken up by the students of respective programmes.

Agenda #	Discussions and Resolutions
7	Discussion regarding conduction of PDP classes and courses structure
	<ul style="list-style-type: none"> Principal discussed with the HoD's regarding suggestions for alternating existing PDP. HoD, ISE Department insisted IELTS instead of PDP - 2. Prof. Narahari discussed the HSS courses offered from I to VII Sem, global electives – Foundation course on Entrepreneurship , Advanced course on Entrepreneurship, Applied Psychology for Engineers Principal asked Dean Placement and HSS chairperson to collect the feedback and implement the changes accordingly.



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Agenda #	Discussions and Resolutions
8	Discussion regarding the English Language Lab (18HS16/26) offered in 1 st year; Pearson English Education
	<ul style="list-style-type: none"> Dean Academics conveyed the information that Pearson's Education, the service provider for the online English course, has designed 10 stages of learning modules both in I and II semesters. Fast learners are completing the course one month before the last working day and students opinion is also good. He also insisted that for CIE valuation in addition to online CIE, the other activities to be included as script writing, drama, English literature to improve their communication skills. The new CIE scheme will be implemented from academic year 2020-2021 onwards for 2020 admission students;

Agenda #	Discussions and Resolutions
9	Any other subject
	<ul style="list-style-type: none"> Principal suggested to include Technical standards as part of every course He also suggested to check for PO mapping of courses and to accommodate POS like project management and finance, complex problem solving in any of the courses or otherwise. He suggested to come up with methods to reach BTL L5 and L6 through assignments, experiential learning. Also he suggested to verify the COs of all courses. Principal listed the liberal art courses (48 numbers) out of which 10 courses may be offered to the students also certification courses to be looked into. Internship of V semester to be moved to VII Semester in 2018 scheme to balance the credits in the final year. Two levels of assessment to be done – synopsis and final presentation for minor project Principal insisted to be more serious regarding AICTE activity points and insisted to look into skills expected for an engineer As per AICTE, faculty having less than 5 years of experience are required to clear 8 courses within 2 years AICTE is giving a grant of 2.1 lakh for conducting a FDP programme of duration of one week. Principal congratulated Dr. Narahari, Professor, IEM Department for completing 50 credits in NPTEL courses.

Meeting concluded with thanks to the chair



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Meeting concluded with thanks to the chair



Meeting # 3

DISCUSSIONS REGARDING M.TECH 2022 SCHEME & SYLLABUS

Minutes of meeting held on Wednesday, November 9, 2022

Agenda	1.	Joint BoS discussions - M.Tech 2022 Scheme & Syllabus (Circuit Programs)
	2.	Any other issues;
Date	Wednesday, November 9, 2022	
Time	02.30 PM	
Venue	Board Room, Admin Block.	

Members Present:

#	Name of the faculty	Designation	Dept.	Signature
1.	Dr. K.N. Subramanya	Principal	Off	<i>Subramanya</i>
2.	Dr. K. S. Geetha	Vice Principal	Off	<i>Geetha</i>
3.	Dr. Shanmukha Nagaraj	Dean Academics	Off	<i>Shan</i>
4.	Dr. B.V.Uma	Dean Student Affairs	Off	<i>Uma</i>
5.	Mr. Suresh N	HR Manager	Off	—
6.	Dr. G. Sadashivappa	Controller of Examination	Exam	—
7.	Dr. Anantharama.V	Dy CoE	Exam	<i>Anu</i>
8.	Dr. M. Sateesh Babu	Professor & Head	AI	—
9.	Dr. Ravindra S Kulkarni	Professor & Head	AS	—
10.	Dr. Vidya Niranjana	Professor & Head	BT	<i>Vidya Niranjana</i>
11.	Dr. Vinod Kallur	Professor & Head	CH	— NA —
12.	Dr. Radhakrishna	Professor & Head	CV	<i>Radhakrishna</i>
13.	Dr. Ramakanth Kumar P	Professor & Head	CS	<i>Ramakanth</i>
14.	Dr. Srivani <i>SG</i>	Professor & Head	EE	<i>Srivani</i>
15.	Dr. Ravish Aradhya H V	Professor & Head	EC	<i>Ravish</i>
16.	Dr. C.H.Renumadhavi	Professor & Head	EI	— NA —
17.	Dr. K.Sreelakshmi	Professor & Head	ET	<i>Sreelakshmi</i>



#	Name of the faculty	Designation	Dept.	Signature
18.	Dr. C.K.Nagendra Gupta	Professor & Head	IM	
19.	Dr. B.M. Sagar	Professor & Head	IS	
20.	Dr. Kirshna M	Professor & Head	ME	
21.	Dr. Andhe Dharani	Professor & Head	MCA	<i>Kala-J.</i>
22.	Dr. Sudha Kamath	Professor & Head	PY	—
23.	Dr. Raviraj Kusanur	Professor & Head	CY	—
24.	Dr. Jayalatha G	Professor & Head	MA	<i>Jayalatha</i>
25.	Dr. Sridevi	Librarian	Library	—
26.	Dr. H.N.Narasimha Murthy	Dean R&D	ME	<i>H.N.Narasimha</i>
27.	Dr. Ranganath D	Dean Placement	Placement	
28.	Dr. G.Shireesha	Dean Cultural Activities	PY	—
29.	Dr. Rajashree Shettar	Dean Circuit Programs (PG)	CS	<i>Rajashree</i>
30.	Dr. Renuka Devi	Dean Non-Circuit Programs	CV	<i>Renuka</i>
31.	Dr. A.V.Narayan	Associate Dean	BT	<i>A.V.Narayan</i>
32.	Dr. Ravindra	Associate Dean	CV	<i>Ravindra</i> 09/11/2
33.	Dr. R.Suresh	Associate Dean	CH	
34.	Dr. G.S.Nagaraj	Associate Dean	CS	<i>G.S.Nagaraj</i>
35.	Dr. K.V.Padmaja	Associate Dean	EI	—
36.	Dr. H.V.Kumaraswamy	Associate Dean	ET	<i>AB</i>
37.	Dr. G.S.Mamatha	Associate Dean	IS	<i>G.S.Mamatha</i>
38.	Dr. H.D.Gopalakrishna	Associate Dean	ME	<i>H.D.Gopalakrishna</i>
39.	Dr. Renuka Prasad	Associate Dean	MCA	

40. Dr. Prakash R

Associate Prof

MAT

41 Dr. KARIYANNA B.S

Professor

ECE

Kariyanna B.S

42. Dr. Mahesh-A

Asse. professor

RCE

Mahesh-A

43. Dr. Nagesh S

Asst. prof.

Pi-cto

Nagesh S

44. Dr. C. Bindu Ashwini

Asst. Prof.

PLUT

C. Bindu Ashwini

45. Dr. N. S. Nalalen

Professor

DEMEHS

N. S. Nalalen



Meeting

DISCUSSIONS REGARDING M.TECH 2022 SCHEME & SYLLABUS

Minutes of meeting held on Thursday, November 10, 2022

Agenda	1.	Joint BoS discussions - M.Tech 2022 Scheme & Syllabus (Non Circuit Programs)
	2.	Any other issues;
Date	Thursday, November 10, 2022	
Time	02.30 PM	
Venue	Board Room, Admin Block.	

Members Present:

#	Name of the faculty	Designation	Dept.	Signature
1.	Dr. K.N. Subramanya	Principal	Off	
2.	Dr. K. S. Geetha	Vice Principal	Off	<i>Geetha</i>
3.	Dr. Shanmukha Nagaraj	Dean Academics	Off	<i>Shanmukha</i>
4.	Dr. B.V.Uma	Dean Student Affairs	Off	<i>Uma</i>
5.	Mr. Suresh N	HR Manager	Off	
6.	Dr. G. Sadashivappa	Controller of Examination	Exam	
7.	Dr. Anantharama.V	Dy CoE	Exam	<i>An</i>
8.	Dr. M. Sateesh Babu	Professor & Head	AI	
9.	Dr. Ravindra S Kulkarni	Professor & Head	AS	
10.	Dr. Vidya Niranjana	Professor & Head	BT	<i>Vidya</i>
11.	Dr. Vinod Kallur	Professor & Head	CH	
12.	Dr. Radhakrishna	Professor & Head	CV	<i>Radha</i>
13.	Dr. Ramakanth Kumar P	Professor & Head	CS	<i>Ram</i>
14.	Dr. Srivani G	Professor & Head	EE	
15.	Dr. Ravish Aradhya H V	Professor & Head	EC	<i>Ravish</i>
16.	Dr. C.H.Renumadhavi	Professor & Head	EI	
17.	Dr. K.Sreelakshmi	Professor & Head	ET	<i>Sreelakshmi</i>



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Approved by AICTE,
 New Delhi

#	Name of the faculty	Designation	Dept.	Signature
18.	Dr. C.K.Nagendra Gupta	Professor & Head	IM	
19.	Dr. B.M. Sagar	Professor & Head	IS	
20.	Dr. Kirshna M	Professor & Head	ME	<i>[Signature]</i>
21.	Dr. Andhe Dharani	Professor & Head	MCA	
22.	Dr. Sudha Kamath	Professor & Head	PY	
23.	Dr. Raviraj Kusanur	Professor & Head	CY	
24.	Dr. Jayalatha G	Professor & Head	MA	<i>Jayalatha G</i>
25.	Dr, Sridevi	Librarian	Library	
26.	Dr. H.N.Narasimha Murthy	Dean R&D	ME	<i>[Signature]</i>
27.	Dr. Ranganath D	Dean Placement	Placement	
28.	Dr. G.Shireesha	Dean Cultural Activities	PY	
29.	Dr. Rajashree Shettar	Dean Circuit Programs (PG)	CS	
30.	Dr. Renuka Devi	Dean Non-Circuit Programs	CV	<i>Renuka</i>
31.	Dr. A.V.Narayan	Associate Dean	BT	<i>[Signature]</i>
32.	Dr. Ravindra, R	Associate Dean	CV	<i>Ravindra</i> 10/11/21
33.	Dr. R.Suresh	Associate Dean	CH	
34.	Dr. G.S.Nagaraj	Associate Dean	CS	
35.	Dr. K.V.Padmaja	Associate Dean	EI	
36.	Dr. H.V.Kumaraswamy	Associate Dean	ET	
37.	Dr. G.S.Mamatha	Associate Dean	IS	
38.	Dr. H.D.Gopalakrishna	Associate Dean	ME	<i>H.D. Krishna</i>
39.	Dr. Renuka Prasad	Associate Dean	MCA	

40. Dr. Nagesh S

41. Dr. NS Kulkarni

42. Dr. C. Bindu Akhmini Asst. Prof.

Asst. prof.
 Professor

ME
 IMMSS

PLAT/
 HES

[Signature]

[Signature]



Minutes of Meeting held on Wednesday, November 09, 2022

A Joint-BoS meeting was convened with all the Deans, HoDs, Associate Deans and PG Course handling faculty at 2.30 pm on 09-11-2022, at the Board Room to discuss the 2022 M.Tech Scheme and Syllabus of Circuit Programs. The meeting was attended by HoDs and Assoc.Deans of PG Programs. The following are the highlights of the discussions held during the meeting:

Agenda #	Discussions Regarding PG Related Activities
1.1	2022 M.Tech Programs Scheme and Syllabus Discussion <p>The Dean Academics, Dr. Shanmukha Nagaraj initiated the meeting by welcoming all the members and conveyed the details of discussions held in the previous meeting. He thanked PG Deans and all the Associate Deans for timely completion of the task and uploading of the syllabus on the Google Drive related to their respective programs. Dean Academics informed the members that about some of the important things incorporated in the scheme & requested the respective Associate Deans to start the discussions as per the alphabetical order of the Departments. He requested to make the presentation emphasising the changes made in 2022 scheme compared to previous scheme with proper justification and feedback received from the stake holders.</p> <p>Dr. K.N Subramanya. Principal briefed certain important points related to the M.Tech curriculum formation. Principal suggested to include courses of</p> <ol style="list-style-type: none">1. Interdisciplinary nature,2. Industry Based electives, and3. Humanities and Social Sciences (HSS) courses as part of the M.Tech curriculum. <p>Emphasis was made to include a basket of courses such as</p> <ol style="list-style-type: none">1. Business Communication,2. Professional Ethics,3. Cognitive Psychology,4. Finance and Economics,5. Leadership and Communication as part of HSS courses with credits <p>students could choose one course from the basket based on their interest & domain. This empowers the students with additional skills.</p> <p>Principal suggested to implement Minor Project by adopting the process of Design Thinking- Empathize, Define, Ideate, Prototype and Test. The mode of examinations for Minor Project to be conducted by hosting exhibitions, thereby enhancing the presentation skills, interpersonal skills, and innovative skills of the students. Principal suggested to include Project Management and Finance as part of the syllabus.</p> <p>Test to be implemented as Open Book preferably for M.Tech students. The Experiential Learning (EL) component has to be in Project Based Learning (PBL) mode. Research methodology syllabus to include contents based on the M.Tech Program specialization. Principal opined more of industry based courses to be introduced as Global electives/Interdisciplinary electives and such courses should not have any pre-requisites, this would facilitate students from other Programs to take up the course.</p>



Principal suggested to include Interdisciplinary electives courses such as **Social Network, Cyber Security, Renewable energy, Cyber Physical Systems, Digital Humanities**. Principal insisted Assoc.Deans to prepare pre-requisites chart for courses listed in the M.Tech Programs except for interdisciplinary courses.

The Vice Principal, Dr. K S Geetha, opined that the revisions must begin with the collection of feedback from all the stakeholders – Students, Alumni and Employers, which would aide in enhancement of employment opportunities for students. Emphasis should be made on inculcating research bent of mind amongst the students. Vice Principal suggested corrections for the M.Tech syllabus pertaining to VLSI and CS Programs. She also reviewed and suggested certain corrections to DC M.Tech Program.

The Deputy CoE, Dr. Anantharama V opined that certain course titles have very long names and this could be shortened. This enables printing the course title on Grade Card completely, otherwise it would result in truncation of the title on the Grade Card which would not be look good aesthetically.

1. Dr. Nagaraja G. S, Assoc.Dean (PG-CSE) presented the Computer Science Engineering and Computer Network Engineering syllabus to the members. A detailed discussion amongst the members resulted in the following opinion/ suggestion/corrections:
 - a) To include more electives in each group to form basket of electives. Keeping common electives between PG-CSE and PG-ISE programs.
 - b) To include iOS contents in the Advanced Operating Systems course
 - c) To discuss with the other circuit PG Programs the elective courses offered by them and any elective common to be included with common title and syllabus
 - d) Modify the courses contents of Research methodology and design it as per the requirements of the PG-CSE and PG-ISE students.
 - e) Include courses such as Game Theory, BIFS, M-Commerce instead Industry 4.0
 - f) To remove company name in the course contents of Embedded Systems and High Performance Computing
 - g) The Advances in Algorithms course title in PG-CNE needs to be updated / relooked into based on the Course contents.
 - h) To Modify / Update the course contents of Advanced Wireless Technologies.

2. Dr. Srivani G, HoD (EEE) & Assoc.Dean (PG-PE) presented the Power Electronics Engineering syllabus to the members. A detailed discussion amongst the members resulted in the following opinion/ suggestion/corrections:
 - a) Spelling correction for the subject “Generalized Machine Theory (Professional Elective)”
 - b) Corrections for the title of industry related subjects suitable to the program.
 - c) Swapping of professional electives from 3rd semester and 2nd semester by considering the pre-requisites.
 - d) Instead of Python programming it is advised to keep as Object Oriented Programming or any lab course suitably.
 - e) Skill Lab or Program Specific lab can be filled as Renewable Energy Lab.
 - f) A course titled **Smart Grid Technology** to be included in first year.

- g) Only NPTEL online courses should be considered (in general) for online courses.
h) Research Methodology syllabus is to be framed as common for EC, TC and EE programs.

Finally, Principal advised to take the support of other departments' expertise to adopt the Interdisciplinary Technologies such as Robotics and Automation, Cyber Security in Smart Grids and Data Science for Energy Systems.

Vice Principal, particularly suggested for the electives swapping as of Professional Electives from 3rd semester and 2nd semester by considering the pre-requisites. PLC and SCADA courses to be shifted to 2nd semester.

3. Dr. Kariappa, Professor Dept. of ECE presented the syllabus to the members. A detailed discussion amongst the members resulted in the following opinion/suggestion/corrections:

- a) In Advanced Communication Systems-1, Unit-5 contents (equalizers content) to be reduced to cater to the number of hours mentioned in the syllabus
- b) To include more internet protocols in Communication and Networks protocols course
- c) In lab course, title change is suggested. Depth of topics taught to be increased.
- d) Course content to be reduced in Advanced Embedded systems as this is an elective course to Communication Systems.
- e) Same course code and course title to be given to common elective courses across various PG programs. Course content to be mapped to number of hours available.
- f) Prerequisites to be include for the course of Multirate Filter Banks course.
- g) It is suggested that communication systems students take RF electives rather than VLSI electives.
- h) Multimedia communication and protocols could be a common course between Telecommunication and Electronics. Need to discuss.
- i) Unit-2 content to be renamed in Advanced Communication Systems-2 course.
- j) Smart Antennas and Algorithms could be a common course between Telecommunication and Electronics. Need to discuss.
- k) RFIC Course need not be offered for VLSI students.
- l) For Robotics and Automation course, help may be taken for course content delivery from Mechanical and IEM departments. Unit-5 to be modified based on the available controller like Fanuc Controller. Need to discuss.
- m) Remove the redundant content from Error Control Coding course.
- n) In the course title LTE-5G and Beyond, LTE may be removed.
- o) Cyber Security course content and title to be changed to suite ECE stream. Case studies and Industrial white papers could be included in the content.
- p) Data Science/Machine Learning course should be offered for Communication and not for VLSI.
- q) Audit course can be removed. Elective course credit can be reduced to 3 from 4. Credit courses could be introduced.
- r) Data structures and Programming could be a common course to Digital communication and Communication Systems. Need to discuss.
- s) Vehicular Communication and Networks could be industry offered elective. Common to Communication Systems and Digital Communication. Need to discuss

4. Dr. Sreelakshmi K S, HoD (ETE) presented the Digital Communications Engineering syllabus to the members. A detailed discussion amongst the members resulted in the following opinion/ suggestion/corrections:

- a) In the course **Advanced DSP, machine learning** topic shall be extended up to regression to have a correlation with lab component
- b) **Multimedia communication** can be a common professional elective course with MCS
- c) Image processing topic in unit 1 of the course Image processing and computer vision shall be removed and the course shall be completely on computer vision. The updation shall be reviewed by Dr. Ramakanth Kumar P, HoD-CSE
- d) Check the nomenclature and credit structure and alignment for all courses and AI&ML, SDN in particular.
- e) Dr. Ramakanth Kumar P., HoD-CSE suggested the Unit V in the course Data structures and algorithms could be reloked as the contents are heavy for 8 hours duration.

5. Dr. Mamatha G S, Assoc.Dean (PG-ISE) presented the Information Technology and Software Engineering syllabus to the members. A detailed discussion amongst the members resulted in the following opinion/ suggestion/corrections:

As per Principal's suggestions, title for the following courses has to be changed

- a) **Patterns for Enterprise Application Development(22MSE13)**
- b) **Software Engineering for Management Information System (22IS2D05)**
- c) **Augmented Reality(22MSE3E2)**
- d) **Metrics And Models In Software Quality Engineering(22MSE1A2)**

Elective courses in Group A and E needs to be revised after discussing with Computer Science and Engineering branch.

Group A Elective Courses:

- e) **Metrics And Models In Software Quality Engineering(22MSE1A1)**
- f) **Micro Services Development(22MSE1A2)**
- g) **Mobile Application Development(22MIT1A3)**
- h) **Robotic Process Automation discuss with other departments.**

Group E Elective Courses:

- i) **Fundamentals of Block Chain Technology(22MSE3E1)**
- j) **Augmented Reality(22MSE3E2)**
- k) **Quantum Computing(22MIT3E3)**

Common nomenclature to be followed for same courses offered from CSE and ISE departments. In this regard both departments should discuss and come to a common resolution.

- l) **Coding lab should be renamed as Full Stack development lab(22MIT14L)**
- m) **Skill lab should be replaced with IOS lab(22MIT25L)**

As per Principal suggestions, title for the below course has to be changed for PG in Information Technology

- n) **Patterns for Enterprise Application Development(22MSE13)**

Elective courses in Group A and E needs to be revised after discussing with Computer Science and Engineering branch.



Group A Elective Courses:

- o) Multicore Architecture (22MIT1A1)
- p) Advance Data Engineering (22MIT1A2)
- q) Mobile Application Development(22MIT1A3)

Group E Elective Courses:

- r) Fundamentals of Block Chain Technology(22MSE3E1)
- s) Decision Support Systemsity(22MIT3E2)
- t) Quantum Computing(22MIT3E3)

Common nomenclature to be followed for same courses offered from CSE and ISE departments. In this regard both departments should discuss and come to a common resolution.

- u) Coding lab should be renamed as Full Stack development lab(22MIT14L)
- v) Skill lab should be replaced with IOS lab(22MIT25L)

Finally, the Dean academics and PG-Deans concluded the meeting by addressing the Associate Deans to modify the scheme, structure and syllabus as per the discussions held in the meeting and then to place the same in department BoS meeting.

Meeting concluded with thanks to the chair.



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RVCE / DA / IQAC / 38 / 2023-24 /

12 February 2024

CIRCULAR
(For Internal Circulation only)

Sub: Schedule of **Joint BOS Meeting (Stage-1)** for the curriculum revision-Reg
Ref: Discussions held in the HoDs meeting on 11-02-2024

With reference to the above subject, the undersigned would like to inform all the BoS Chairpersons to note the schedule of presentations for the revision of syllabus as mentioned below:

Venue: Board Room


Mode: Offline

Agenda:

- 2021 Scheme - VII & VIII Semester B.E. Programs;
- 2022 Scheme - V & VI Semester B.E. Programs;
- Only Schemes to be presented for both the revisions as per the PPT Template shared earlier.**
- Detailed syllabus will be discussed in the **Joint BoS (Stage-II)** which will be announced shortly.

SL.NO	DATE	TIME	CYCLE
1	Tuesday, 20-02-2024	2.30 PM	ALL NON-CIRCUIT PROGRAMS AS, BT, CH, CV, IM & ME
2	Wednesday, 21-02-2024	2.30 PM	ALL CIRCUIT PROGRAMS AI, CS, CD, CY, EC, EE, EI, ET & IS

HoDs are hereby requested to adhere to the time and date and complete the process. BoS chairperson may accompany the syllabus coordinator/Faculty Coordinator incharge for the syllabus drafting.


MEMBER SECRETARY, IQAC
(DEAN ACADEMICS)
MEMBER SECRETARY


CHAIRMAN, IQAC 12/2
(PRINCIPAL)

Principal
R.V. College of Engineering
Bangalore - 560 059

Copy to:

- Vice Principal for information.
- Dean Student Affairs for information and needful;
- HoDs for information and necessary action;
- Chairperson, HSS for information and needful.
- CoE & Deputy CoE with a request to attend the meeting
- Team IQAC for information and necessary action.

Mysore Road, RV Vidyaniketan Post,
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Meeting #2

ACY 2023-24

MEETING WITH HoDs Deans & Associate Deans

Minutes of meeting held on Wednesday, February 21, 2024

Agenda	1.	Revision of 2021 Scheme- VII & VIII Semester B.E Programs
	2.	Revision of 2022 Scheme- V & VI Semester B.E Programs
	3.	Discussions regarding the Improvements / Changes made in the present scheme & Syllabus compared to previous scheme & syllabus
Date	Wednesday, 21 February 2024	
Time	2.30 PM	
Venue	Board room, Admin Block, RVCE	

Members Present:

#	Name of the faculty	Designation	Dept.	Signature
1.	Dr. K.N. Subramanya	Principal	Off	<i>K.N. Subramanya</i>
2.	Dr. K.S.Geetha	Vice Principal	Off	<i>Geetha</i>
3.	Dr. Shanmukha Nagaraj	Dean Academics	Off	<i>Shanmukha</i>
4.	Dr. B.V.Uma	Dean Student Affairs	Off	LOA
5.	Dr. G. Sadashivappa	COE	Exam	LOA
6.	Dr. Anantharama.V	Deputy CoE	Exam	<i>Anu</i>
7.	Dr. H.N.Narasimha Murthy	Dean, R&D	ME	LOA
8.	Dr. Ranganath	Dean, Placement & Training	Placement	LOA
9.	Dr. G.Shireesha	Dean Cultural Activities	PY	<i>G. Shireesha</i>
10.	Dr. Rajashree Shettar	Dean Circuit Programs (PG)	CS	<i>Rajashree</i> 21/2/24
11.	Dr. Renuka Devi	Dean Non-Circuit Programs (PG)	CV	<i>Renuka</i> 21/2/24
12.	Dr. Narahari N S	HSS Chairman	HSS	<i>Narahari</i> 21/2/24
13.	Dr. B Sathish Babu	Professor & Head	AI	<i>B. Sathish Babu</i> 21/2/24
14.	Dr. Ravindra S Kulkarni	Professor & Head	AS	<i>Ravindra</i> 21/2/24
15.	Dr. Vidya Niranjan	Professor & Head	BT	LOA



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#	Name of the faculty	Designation	Dept.	Signature
16.	Dr. Vinod Kallur	Professor & Head	CH	<i>[Signature]</i>
17.	Dr. Radhakrishna	Professor & Head	CV	<i>[Signature]</i> 21/2/24
18.	Dr. Ramakanth Kumar P	Professor & Head	CS	<i>[Signature]</i> for Rajadhar 21/2/24
19.	Dr. Ravish Aradhya H V	Professor & Head	EC	<i>[Signature]</i>
20.	Dr. S.G. Srivani	Professor & Head	EE	<i>[Signature]</i>
21.	Dr. C.H. Renumadhavi	Professor & Head	EI	<i>[Signature]</i> ch. Renumadhavi 21/2/24
22.	Dr. K. Sreelakshmi	Professor & Head	ET	<i>[Signature]</i> Sreelakshmi
23.	Dr. C.K. Nagendra Gupta	Professor & Head	IM	<i>[Signature]</i>
24.	Dr. B.M. Sagar	Professor & Head	IS	LOA
25.	Dr. Kirshna M	Professor & Head	ME	<i>[Signature]</i>
26.	Dr. Andhe Dharani	Director	MCA	<i>[Signature]</i>
27.	Dr. Sudha Kamath	Professor & Head	PY	<i>[Signature]</i> Sudha Kamath
28.	Dr. Raviraj Kusanur	Professor & Head	CM	<i>[Signature]</i> Raviraj 21/2/24
29.	Dr. G Jayalatha	Professor & Head	MA	<i>[Signature]</i> Jayalatha 21/2/24
30.	Dr. A.V. Narayan	Associate Dean, PG Studies	BT	LOA
31.	Dr. Ravindra R	Associate Dean, PG Studies	CV	LOA
32.	Dr. G.S. Nagaraj	Associate Dean, PG Studies	CS	LOA
33.	Dr. H.V. Kumaraswamy	Associate Dean, PG Studies	ET	LOA
34.	Dr. G.S. Mamatha	Associate Dean, PG Studies	IS	<i>[Signature]</i> Mamatha 21/2/24
35.	Dr. H.D. Gopalakrishna	Associate Dean, PG Studies	ME	LOA
36.	Dr. Renuka Prasad	Associate Dean, PG Studies	MCA	LOA
37.	Dr. T.R. Sridevi	Chief Librarian	LIB	LOA

38. Dr. Ranjani G, ET, *[Signature]*

39. Dr. Sandhya S, CSE, *[Signature]* 21/2/24

40. Dr. Deepashree Devraj, EIE, *[Signature]*

41. Dr. D. G. Abhilash Krishna - EEE, *[Signature]*

~~42. Dr. G.S. Mamatha~~

42. Dr. Vijayalakshmi H. R. - AIME, *[Signature]* 21/2/24



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Joint BoS Meeting held on Wednesday, 21 February 2024:

Invitees				
#	Name of the Faculty/Staff	Designation	Dept.	Signature
1.	Dr. C. Bindu Ashwini	Asst. Prof.	EE	
2.	Dr. Mahesh. A	Asst. Prof.	RCE	
3.				
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RVCE / IQAC / DA / 68 / 2023-24

20th March 2024

MINUTES OF MEETING: JOINT BOARD OF STUDIES-PHASE-I

(meeting with HoD, Deans & Associate Deans and BoS Chairpersons)

DATE: February 20-21, 2024

TIME: 2.30 PM – 6.00 PM

MODE: OFFLINE

VENUE: BOARD ROOM, ADMIN BLOCK, RVCE

Dean Academics and Member Secretary, IQAC welcomed the Principal, Vice Principal, Dean Student Affairs, CoE, Deputy CoE, Hods, PG Deans, and Associate Deans & all the department level BoS Coordinators who were present for the meeting and the following points were discussed:

Day -2 Discussions with the Non-Circuit Programs (20th Feb 2024)

Subject No.	1.1
Agenda	Joint BoS for the UG 2021 scheme final year and 2022 scheme 3 rd year scheme discussion with Non-Circuit Programs

Discussions & Resolutions

The meeting started with the following department presentations for the subject 1.1: Dean Academics requested all the BoS Chairpersons to briefly explain the Scheme of 2021 & 2022 and requested them to share:

1. Feedback and critical observations made by the stake holder for the curriculum revision.
2. Key changes made in the scheme & Syllabus compared to the previous scheme.
3. Percentage changes in the syllabus compared to previous scheme. And then the new scheme discussions.

Discussions:

AS, BT, CV, IM, CH and ME department BoS chairpersons presented the scheme structure for 2021 & 2022 scheme.

Resolution s:

- The Course '**Minor Project**' is to be renamed as '**Interdisciplinary Project**'.
- In the scheme, credit distribution for P needs to be regularized.
- Internship between VI and VII semester to be reduced to 1 month (4 weeks) instead of 2 months.
- **Cluster elective of VI semester (Group F) is to be replaced with another department professional elective.**
- All students should be trained to take up projects incorporating AI tool for various applications. Hence, AI needs to be brought into the curriculum either as a core course or as an elective or to be blended in an existing courses.
- **Registration for the NPTEL courses is to be done through the VTU portal only.** Separate orientation session will be given to all IV & VI sem students.
- In the 2022 scheme Minor Project is to be reduced to 3 credits in the VI semester.



- In the 2022 scheme VI semester, one of the professional core electives is to be replaced with the professional core course of 4 credits.
- Cluster elective E is dropped and replaced with a professional core elective.
- A few changes have been suggested under Local electives by the Principal.
- NPTEL courses to be chosen with care. A proper orientation needs to be given by the department and the required prerequisites should be mentioned to the students. NPTEL coordinators of the departments should initiate the process.
- At least 5% of change in syllabus to be reflected from 2021 to 2022 scheme.
- Principal and Dean Academics suggested to present one slide for changes from 2021 to 2022 scheme.
- Few changes in local and global elective were suggested by the Principal and Vice Principal.

Day -2 Discussions with the Circuit Programs (21st Feb 2024)

Subject No.	1.2
Agenda	Joint BoS for the UG 2021 scheme final year and 2022 scheme 3 rd year scheme discussion with circuit programs

Discussions & Resolutions

The meeting started with the following department presentations for subject 1.1:

Discussions:

ET department BoS chairman presented the scheme structure for 2021 & 2022 scheme.

Resolutions:

- General discussion happened on starting training with basic AI tools for all students and faculty in 2nd year by the AIML department as it is the need of the hour.
- 5G & Beyond technologies course is offered by Nokia as an Industry common elective to both ECE/ETE departments.
- Group G Elective discussion happened on courses suitable for 7th sem students.

Next EI department BoS chairman presented the scheme structure for 2021 & 2022 scheme.

Resolutions:

- Chairman was informed to use write full form of courses and not abbreviations.
- Few local elective changes were suggested by Principal.

Next ECE department BoS chairman presented the scheme structure for 2021 & 2022 scheme.

**Discussions & Resolutions:**

- Few local and global elective changes were suggested by both Principal and Vice Principal.

Next CS department BoS chairman presented the scheme structure for the 2021 & 2022 schemes.

Resolutions:

- Along with the CS branch, the associated specialization branches Data Science and Cyber security scheme structure was presented.
- All members including HSS BoS Chairman Dr. Narahari sir suggested keeping the Prompt Engineering course for all programs in the Institutional elective group.
- **Principal informed the HoDs of AI, CS, CD, CY and IS to have separate meeting and discuss the scheme and syllabus. The minutes of meeting to be submitted to the office of Dean Academics at the earliest. He advised them to meet him & discuss group wise before they finalise the scheme and syllabus.**
- Dean Academics conveyed to all the members that the next meeting schedule to discuss the detailed syllabus will be intimated shortly and requested the HoDs to proceed with the drafting of detailed syllabus as per the standard template.

Subject No.	1.3
Agenda	Other academic matters
Discussions & Resolutions	
Vice Principal informed the following to the group members:	
<ul style="list-style-type: none"> • Vice Principal has informed all the members that the NBA for 5 PG programs have been scheduled in the month of March and mock NBA to be conducted ASAP. • Vice Principal also stated that NAAC preparations are to be taken on priority. Self-study reports from 2018 to 2023 are to be uploaded in the NAAC portal. 	
Dean Academics conveyed the following information to the group members:	
<ul style="list-style-type: none"> • Academic Audit for the departments undergoing NBA to be completed ASAP. Dean Academics insisted HoDs to give the dates for the same and complete the process before March 31st 2024. • Dean Academics requested HoDs to ensure that faculty appraisals are collected 100% and to be completed at the earliest. Action taken reports to be submitted to the Central Office. • III semester skill programme reports to be shared with Dean Academics by all HoDs. The report format has been shared with all the departments. • Dean Academics informed the members that group photo sessions for the outgoing batch of UG and PG programs has been arranged on 24/02/24 from 10 to 12.30 PM. The schedule will be sent to the students and faculty in this regard. • PG Deans and Associate Deans were requested to cross check the MTech syllabus for any corrections. 	



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- Dean Academics informed the all the members about the new VTU amendments to be implemented from the ensuing semester:
 - Makeup examinations will be conducted once a year only (applicable to 2022 scheme). Ranks will not be awarded to all those who appear for the make up exams.
 - F-grade students will be given supplementary examinations without attending Classes and CIE.
 - **For the Courses declared NSAR**, students can register in the subsequent semester (upto 28 credits) attend all classes and earn CIE to get eligibility to write SEE.
 - **NSSR category students** can register for the courses during subsequent semester and take up CIE only without attending classes and write SEE directly.
- Controller of Exams informed the members that the Online exams for all the One Credit courses of I sem 2022 Scheme will be conducted on 4th March 2024. He requested HoDs to verify and ensure the Systems and other resources are ready for the conduction of the same. Deputy controller of exams informed the members the preparations made for the conduction of online exams. He appealed to all the members to support for the task so that exams will be conducted smoothly.

Dean Academics conveyed thanks to the Principal, Vice Principal, Dean Student Affairs, Controller and deputy CoE, Chairman -HSS, all the HoDs and BoS chairpersons for their time and efforts.

Dean Academics
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RV College of Engineering
Bengaluru - 560 059.
20 MAR 2024

Vice Principal
VICE PRINCIPAL
R.V. College of Engineering
Bengaluru - 560 059

Principal
Principal
R.V. College of Engineering
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