Jawaharlal Nehru National College of Engineering
Department of Computer Science & Engineering

27/12/18

CIRCULAR

VTU has announced the scheme and syllabus for 2018 batch in the website. All the faculties are hereby informed go through the syllabus. A meeting is scheduled on 29/12/18 regarding feedback on VTU 2018 syllabus.

HOD

Jawaharlal Nehru National College of Engineering

Department of Computer Science & Engineering

10/1/2019

Proceedings of Syllabus (VTU 2018 Scheme) meeting:

A meeting of faculties of CSE department was held on 29/12/18 regarding VTU 2018 syllabus of each module and the number of lecture hours of different courses were reviewed. Faculties expressed the syllabus content for few courses is more and the number of lecture hours per week given is less. Faculties gave input on modification in syllabus and the gaps in the curriculum for different courses were identified. Mr. Vinay K S, Architect, Edge Networks, Pvt. Ltd., Bangalore was present in the meeting and expressed his views on the present VTU curriculum. Feedback on VTU 2018 syllabus was intimated to VTU Board of Studies Chairman to consider the suggestion.

HOD, CSE

Members present for syllabus meeting held on 29/12/2018

1) R. Sanjeev kumar — R.S.K
2) Talesh Kumar
3. Ravindra S
4. Vedavanda D E
5. Vinay K.S.
Architect.
EdGE Networks Pvt Ltd
Bangalore
Industry Expert
6. Nagendra Kumar S.
7. Chetan K
8. Sankhya Nayak
9 Hiriyanna G
10. K.M. Poornima
11. Nanduh. M
12. Ganavi. M
13 Mohan H G
14 S. Sathyanarayana
15 Sreedevi. S
16. Ravindra. S.
17. Pushpa. R.N.
18. Namitha M.V
19. V. Manohar
20. SAYEED
21. Banakappa SH
22. Ayesha Siddiqa
23. Dr. Nirmala Shivanand

According to the University programme, the courses offered are grouped based on course component listed in the Table 1 as below:

Table 1: Different Curricular components in the program

Group	Program Curriculum Grouping based on Course Component	Number of Courses	Program Outcomes (POs)	Program Specific Outcomes (PSOs)
1	Professional Core Courses	22	1, 2, 3, 4, 5	1, 2
2	Science & Humanities	10	1, 2, 5, 7, 8	1
3	Programming	05	1, 2, 3, 4, 7	1
4	Interdisciplinary	07	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	1, 2
5	Project, Seminar & Lab Practices	13	1, 2, 3, 4, 5, 7, 9, 10, 11	1, 2
* Remarks :Excluding 05-electives**Total = 57**				

The average mapping of PO and PSO for the programme is computed by considering all the courses as shown in below table 2.

Dept. of Information Science & Engg. JNNCE Shimoga.

A. Process used to identify extent of compliance of the University Curriculum for attaining the Program Outcomes (POs) and Program Specific Outcomes (PSOs).

The Jawaharlal Nehru National College of Engineering is affiliated under Visvesvaraya Technological University, Belagavi. Hence Information science and engineering program curriculum is as per the scheme and syllabus of VTU. It comprises of basic science, humanities, electives and core courses. The curriculum provided by the affiliated university weakly address few components to attain program outcomes. In this regard, the program makes additional efforts to impart such knowledge by covering aspects through Content beyond Syllabus. This is added by proper GAP analysis process. The process used to identify extent of compliance of the curriculum for attaining the POs and PSOs is shown in following Figure 1.

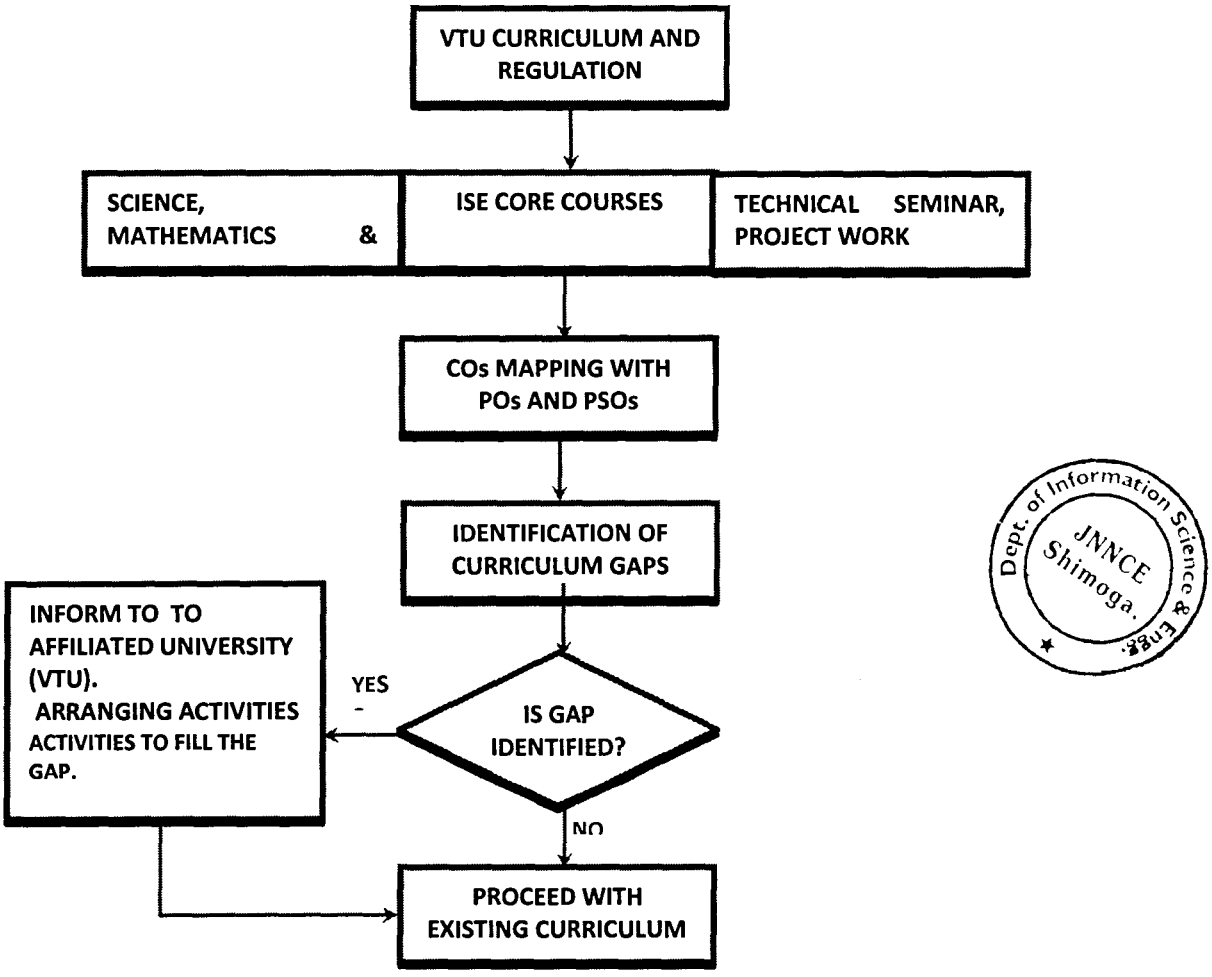

Figure 1- Process to identify Compliance of the curriculum.

Table 2: POs and PSOs mapping with courses offered by the affiliated university for program

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C101	1.5	1.4												
C102	1.27	1.62												
C103	1.06	1.08												
C104	1.23	0.61			0.73		0.55							
C105	1.81	1.21												
C106	2.56	1.17					1.17	0.85						
C107	1.48	1.73			0.74									
C108	1.56	0.78												
C109	1.75	1.28					0.65							
C110	1.39	1.22												
C111	1.44	1.44			1.44									
C112	1.31	1.34												
C113	2.38	1.59												
C114	2.46	0.82			0.82									
C115	1.06						1.22							
17MAT31	1.23	0.62												
17CS32	1.81	1.82	1.82											1.23
17CS33	1.54	1.18	1.18										1.54	
17CS34	1.65	0.06	1.06										1.11	
17CS35	1.56	1.50	1.50										1.56	1.50
17CS36	1.49	1.49											1.49	
17CSL37	2.49	2.49	2.49		2.49								0.00	2.49
17CSL38	2.13	1.95	2.13										2.13	2.13
17MAT41	1.20	0.83												
17CS42	1.74	1.74	1.74	1.83									1.74	1.83
17CS43	1.92	1.92	1.74	1.52									1.92	
17CS44	1.78	1.17	1.64										1.33	1.56
17CS45	1.78	1.78	1.74										1.78	
17CS46	1.80	1.62	1.38	1.14									1.80	1.14
17CSL47	2.04	2.04	2.04										2.04	1.70
17CSL48	2.09	1.39	2.09										1.57	1.85
17CS51	1.55	1.70											1.20	
17CS52	2.33	2.10							1.40				2.31	2.10
17CS53	1.41	1.41	1.20										1.41	
17CS54	2.08	1.83	1.87		1.41								2.08	
17CSL57	2.25	2.25			2.25				2.10				2.25	2.25
17CSL58	2.55	1.70	2.55		2.55								2.55	
17CS61	2.55		1.28			2.55		2.55	2.55	2.55			2.55	2.55
17CS62	1.75	2.40	1.88					1.55	1.55				2.33	
17CS63	1.98	1.70	1.97		1.40			1.40	1.40	1.40		1.40	2.04	1.50
17CS64	2.40	2.40											2.40	
17CSL67	2.21	2.21	2.21	2.21									2.21	
17CSL68	2.55	2.55	2.55										2.55	2.55
17CS71	2.25	2.25	1.80										2.14	2.00
17CS72	2.03	2.03											2.03	
17CS73	2.16	2.01	1.44										2.16	2.01
17CSL76	1.80	1.80	1.80										1.80	1.80
17CSL77	1.69	2.25	2.25		2.25								2.25	2.25
17CSP78	2.50				2.00	2.50					2.00	2.00	2.11	1.83
17CS81	2.14	2.10	2.25						2.25	2.25			2.14	2.25
17CS82	2.25	1.50			1.50			1.50	1.50	1.50			2.25	1.50
17CS84	2.70	1.80			1.80	1.80	1.80	1.80	2.34	2.10	1.50	2.34	2.40	2.40
17CSP85	3.00	3.00	2.00		3.00			-	-	2.00	-	1.75	3.00	2.00
17CSS86	1.67	1.17								2.00		1.17	1.83	

Direct	1.89	1.65	1.84	1.67	1.74	2.28	1.08	1.61	1.89	1.97	1.75	1.73	1.94	1.93
Indirect	2.46	2.45	2.47	2.42	2.46	2.54	2.46	2.5	2.49	2.49	2.5	2.49	2.49	2.49
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Final	2.004	1.81	1.966	1.82	1.884	2.332	1.356	1.788	2.01	2.074	1.9	1.882	2.05	2.042

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B. List the curricular gaps for the attainment of defined POs and PSOs

List of Identified Gaps in the Curriculum:

Table: 3: Course wise Gap Identification

Sl. No	Courses	
	Course Number	Course Name
1	17MAT31	Engineering Mathematics - III
2	17CS32	Analog and Digital Electronics
3	17CS33	Data Structures and Applications
4	17CS34	Computer Organization
5	17CS35	Unix and Shell Programming
6	17CS36	Discrete Mathematical Structures
7	17CS42	Object Oriented Concepts
8	17CS43	Design and Analysis of Algorithms
9	17CS46	Data Communication
10	17CS54	Automata theory and Computability
11	17IS62	File Structures
12	17IS63	Software Testing
13	17CS82	Big Data Analytics
14	17IS84	Internship/ Professional Practice
15	17ISP85	Project Work-II
16	17ISS86	Seminar

These identified gaps are considered in addition to the curriculum at department level as the topics beyond the syllabus so as to fulfil the identified gaps and their appropriateness to the current trends or demands in our society.

The mapped POs and PSOs with average value less than threshold (1.92) are identified as the curriculum gaps. The average mapping of PO2, PO4, PO5, PO7, PO8, PO11 and PO12 does not meet the threshold, hence gap is identified in the curriculum for the respective POs.

The percentage of mapping is graphically represented in figure 2. The POs and PSOs which have less than 30% (threshold value of 0.9) are identified as curricular gaps.

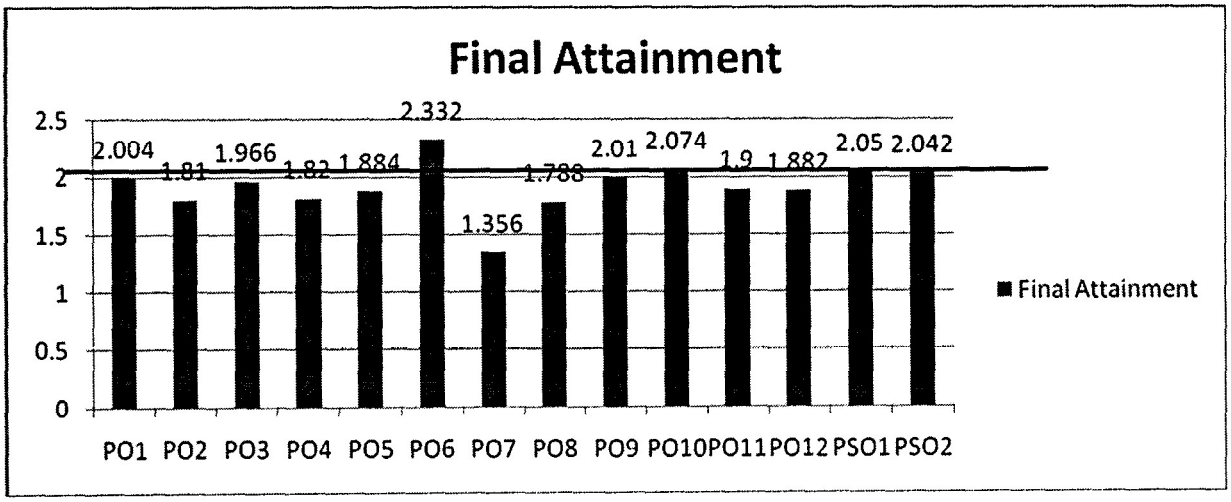

Figure 2: Percentage mapping of POs and PSOs