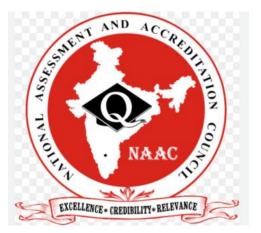
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2.6: Student Performance and Learning Outcomes

2.6.2 Attainment of Programme outcomes and course outcomes





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The syllabus/curriculum prescribed by Visvesvaraya Technological University (VTU), Belagavi is followed by SIR MVIT. VTU curriculum is framed and reviewed by the 4 years by the board of studies and other members like chairman, senior faculties and industrial experts. Following is the process used to identify extent of compliance of university curriculum for attaining the POs and PSOs. Identify Course Outcomes for each subject Map each Course Outcome with POs and PSO Based on All CO-POs/PSOs mapping, Map subject with POs and PSOs Categorize entire Curriculum into Core Courses, Electives, laboratories, Humanities and Social Sciences, Basic Engineering sciences, Seminars, internships, Projects Mapping each category with Pos.

Attainment of Programme outcomes and course outcomes are calculated

using two methods-

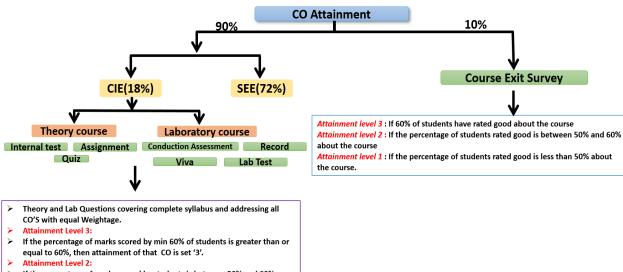
- > Direct method of Evaluation.
- Indirect method of Evaluation

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- If the percentage of marks scored by students is between 50% and 60%, then attainment of that CO is set '2'.
- Attainment Level 1
- If the percentage of marks scored by students is less than 50%.

Based on students' performance in the University Examination

Attainment level 3

If the percentage of students scoring above class average is ≥ 60% then attainment of all COs is set to '3'

Attainment level 2 >

If the percentage of students scoring more than the class average is greater than or equal to equal to 50% but less than or equal to 59%, then attainment of all COs is set to '2'

Attainment level 1

If the percentage of students scoring more than the class average is less than or equal to 50%, then attainment of all COs is set to '1'

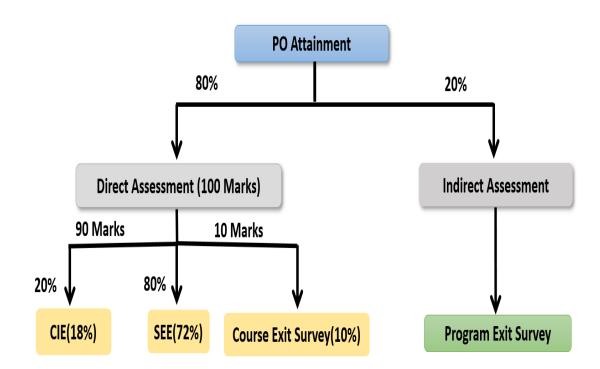
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Based on students' performance in the University Examination

> Attainment level 3

If the percentage of students scoring above class average is ≥ 60% then attainment of all COs is set to '3'

> Attainment level 2

If the percentage of students scoring more than the class average is greater than or equal to equal to 50% but less than or equal to 59%, then attainment of all COs is set to '2'

> Attainment level 1

If the percentage of students scoring more than the class average is less than or equal to 50%, then attainment of all COs is set to '1'

PO Attainment = Average{(CO Attainment * Map Level) / No. of Levels)}*80% + 20% of Program Exit Survey



Choice Based Credit System (CBCS): The CBCS provides choice for students to select from the prescribed courses (core, elective and Foundation Courses) as shown in Table 1.1 Types of courses

Semesters	Course Coverage
I –II	HS, BS and ES; Common for all Branches; Mandatory Courses
III-IV	PS – Core
V-VII	PS- Core & Electives
VIII	PS- Core & Electives, Seminar, Internship, Project work

Table 1.1 : Sequencing Plan for the B.E. Degree Curriculum

HS - Humanities and Environmental Sciences, BS - Basic Sciences, ES - Engineering Sciences, PS - Professional Subjects

Generally Curriculum maintains the balance in the composition of basic science, humanities, professional courses and their distribution in core and elective subjects. The curriculum distribution for various groups is shown in Table below

Compliance of university curriculum for attaining POs & PSOs

Sl. No	Types of Courses	Number of Courses as per VTU	Courses offered	POs
1	HS & MNC - Humanities and Environmental	4	4	PO7,PO8
2	BS - Basic Sciences	8	8	PO1,PO2,PO3,PO4,PO5
3	ES - Engineering Sciences	8	8	PO1,PO2,PO3,PO4
4	PS - Professional Subjects	. 35	35	PO1,PO2,PO3,PO4,PO5,PO6
5	PS- Electives	29	14	PO1,PO2,PO3,PO4,PO5,PO6
6	Seminars, Internships, Project works	4	4	PO1 - PO12
1	Total	88	73	

Table: Contribution of Curriculum to the program for 2015Scheme

The Visvesvaraya Technological University implements the curriculum to be followed in the program, which is stipulated for a period of 8 semesters or 4 years duration.

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Compliance of university curriculum for attaining POs & PSOs (2017 Scheme)

SI. No	Types of Courses	Number of Courses as per VTU	Courses offered	POs
1	HS & MNC - Humanities and Environmental	4	4	PO7,PO8
2	BS - Basic Sciences	8	8	PO1,PO2,PO3,PO4,PO5
3	ES - Engineering Sciences	8	8	PO1,PO2,PO3,PO4
4	PS - Professional Subjects	35	35	PO1,PO2,PO3,PO4,PO5,PO6
5	PS- Electives	29	14	PO1,PO2,PO3,PO4,PO5,PO6
6	Seminars, Internships, Project works	• 4	4	PO1 - PO12
	Total	88	73	

Table: Contribution of Curriculum to the program for 2017Scheme

Compliance of university curriculum for attaining POs & PSOs (2018 Scheme)

SI. No	Types of Courses	Number of Courses as per VTU	Courses offered	POs
1	HS & MNC - Humanities and Environmental	5	5	PO7,PO8
2	BS - Basic Sciences	8	8	PO1,PO2,PO3,PO4,PO5
3	ES - Engineering Sciences	8	8	PO1,PO2,PO3,PO4
4	PS - Professional Subjects	32	32	PO1,PO2,PO3,PO4,PO5,PO6
5	PS- Electives	26	2	PO1,PO2,PO3,PO4,PO5,PO6
6	Seminars, Internships, Project works	. 4	4	PO1 – PO12
	Total	83	59	

Table : Contribution of Curriculum to the program for 2018Scheme

GAP Identification Process

The PO's defined by NBA are broadly classified as Technical and Non-technical group. Most of the courses comfortably address the technical PO's, while the non-technical PO's need careful attention. Program Outcomes that are not addressed by the curriculum provided by the university, the Department makes additional efforts to impart the same by covering aspects through different activities by doing proper gap identification.

Process: When there is a new scheme and syllabus prescribed by the University, Department Academic Committee (DAC) and Program Assessment Committee (PAC)comprising of the Head of the Department, senior faculty members, alumni and experts from the industry will review the syllabus for gap identification.



Ref. No. VIT/CSD/

Date

- Identify Course Outcomes for each course. This is done by the module coordinators and course coordinators.
- Map each Course Outcome to the corresponding POs and PSOs.
- Taking all courses' CO-PO mapping, gaps in Program Outcomes are identified.
- The feedback from Industry and Alumni are also taken into account.

Inputs are taken from PAC which includes Faculty Members, Students, Industry Personnel and Alumni along with DAC which includes HoD & Senior Faculty Members.VTU prescribed syllabus is analyzed by the PAC/DAC for finding the gaps if any. Figure 2.1 shows the process to identify the extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes.

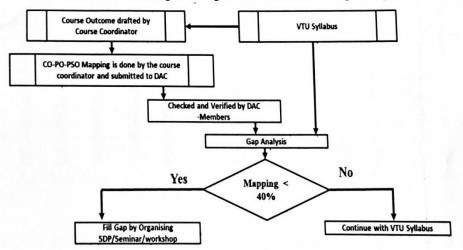


Fig: Flow diagram showing the process to identify extent of compliance of University Curriculum for attaining POs and PSOs

List the curricular gaps for the attainment of defined POs & PSOs

For 2017 scheme, below table provides information about percentage of compliance of university Curriculum to attain Program Outcomes and Program Specific Outcomes and also identifies curriculum gap of Program Outcomes. The number of subjects considered for identification of gaps in the curriculum by considering Basic Sciences, Engineering Sciences. Professional subjects Seminars, Internships and Project works to total 54 subjects.

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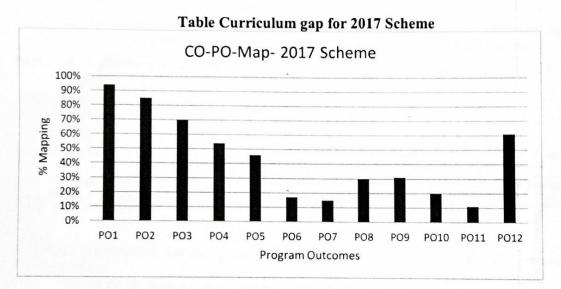


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Ref. No. VIT/CSD/

Date

	CO-PO MAP – 2017 Scheme											
Details	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Number of Subjects Mapped	51	46	38	29	25	9	8	16	17	11	6	33
Percentage Mapping	94%	85%	70%	54%	46%	17%	15%	30%	31%	20%	11%	61%



First row of Table indicates the number of subjects mapping to corresponding PO's. The second row of Table shows the ratio (in percentage) of the sum of all the mappings of a PO's to the total number of courses offered by the program. This ratio is obtained by constructing an articulation matrix of all the courses mapping to the PO's. It is observed that substantial courses map to certain PO's, but few are moderately mapped. A benchmark value of less than or equal to 40% of Mapping is considered for identifying the gaps. In 2017 scheme, the VTU curriculum does not satisfy PO6, PO7, PO8, PO9, PO10, and PO11 which are listed below.

- **PO6: The Engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7: Environmental and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

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- PO8:Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9:Individual and TeamWork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings
- PO10:Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and in multidisciplinary environments.

Identified Curricular gaps and its Appropriateness

	PO	Action Taken to fill the gaps
PO6	 The engineer and society 	Quiz on Covid Awareness/Webinar on nutrition
PO7	- Environment and sustainability	Quiz on Covid Awareness/Yoga Awareness
PO8	- Ethics	Mini Project
PO9	- Individual and team work	Mini Project, Students encouraged for Internships, Encourage students register for NPTL/MOOC's Courses
PO10	0 - Communication	Students Activity Clubs, Workshops/conference Organized, Guest lectures Organized (SDP + Seminar)
PO11	 Project management and finance 	Mini Project

State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs

(Provide details of the additional course / learning material content / laboratory experiments/projects etc., arising from the gaps identified in 2.1.1 in a tabular form in the format given below)

A Steps taken to get identified gaps included in the curriculum

Faculty members are asked to write letter to the university regarding the identified gaps in the courses. The letters are addressed to the Chairman, Board of Studies (BOS) of the program and sent to the university through the Principal. The University conducts regular meeting of BOS members to discuss the problems raised by affiliated colleges. Whenever a new scheme is introduced, a meeting of the senior faculty members across university will be organized by BOS for discussing the draft syllabus. The university tries to address the issues and brings out the final curriculum

Delivery details of content beyond Syllabus

The details of content beyond syllabus are as follows:

Mini Projects: Mini Projects are done in Machine Learning.



Ref. No. VIT/CSD/

Date

Guest lectures / Workshops / conference: Guest Lectures / workshops / Conference are organized to make students aware of current trends in the industry.

Internships: Students are asked to do internships to understand IT environment.

Department Club Activities: There is student club GLUG MVIT which help the students to actively participate in technical events at National and International Level.

NGO: ABHIKALPANA is registered NGO under department of computer science and engineering organizes events to address societal, health, safetyand cultural issues in the rural area.

Pre-placement Training: Keeping in view that there is gap in academic learning & company expectations, the 7 phased soft skill training program has been formulated by Training &Placement officer to bridge this gap. The program is directed towards total personality development of engineering & management students based on the feedback received from hundreds of companies with regard to their expectations from students in addition to their academic learning. This training module is updated as per the needs/demand of the corporate world. This training is imparted to pre-final year students in their 6th semester without disturbing the normal class schedule. The training is followed by series of mock exercises. The purpose of this training is not only to prepare students for on campus/ off campus interviews by making them industry ready, but to make them a true professional engineer.

T & P cellconducts7 Phase Training for pre-final year students for the development of:

- Total personality development
- Verbal &Non-Verbal communication.
- Emotional intelligence & interpersonal skills.
- Positive attitude
- Skills for value additions
- Behavioural attitude in group interactive sessions
- Group discussion

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Mapping of content beyond syllabus with the POs & PSOs

Action Taken to fill the gaps	2020-2021	2019-2020	2018-2019	Relevance to POs		
Mini Project Carried by Students	28 Mini Projects	130 Mini Projects	72 Mini Projects	PO9, PO10, PO12		
Guest lectures Organized (SDP + Seminar)	- 5	24	7	PO5		
Workshops/conference Organized	1	2	1	PO5,PO8		
Students encouraged for Internships	144	140	10	PO5,PO9,PO10		
Students Activity Clubs	-	1	1	PO6, PO7,PO9,PO10 PO6,PO8,PO9		
NGO Activity	ABHIKAL	ABHIKALPANA NGO Activities				
Pre-placement Training	 7 Phase Training wa Total personali Verbal & Non- Emotional inte Positive attitud Skills for value Behavioural att sessions Group discussi 	PO3, PO9, PO10, PO11,PO12				

CAY (2020- 2021)

GAP: Design/development of solution

No.	Action Taken	Date	Resource person	No. of the participa nts	Relevance to POs
1	"Importance of Software Engineering"	4 th November 2020	Dr. Sheela Kathavate Associate Professor, Dept. of ISE, BMSIT & M	100	
2	"Innovative method for designing a DFA and its Application towards life to make it beautiful"	5 th November 2020	Dr. Shantha Kumar B Patil, Professor, Dept. of CSE, Nagarjuna College of Engineering and Technology	110 PO6, I	PO6, PO7,
3	Tutorial Course on C & C++ , Drupal, Python , PHP & MySQL, SCI LAB	14 th November 2020 to 27 th November 2020	VTU FOSS Group in Association with IIT Bombay Spoken Tutorial Training Program	350	PO8,PO10
4	"Application of Mathematics in Image Processing"	23 rd November 2020	Dr. Asha C S PG Dept. Mathematics, MES	97	

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No.	Action Taken	Date	Resource person	No. of the participa nts	Relevance to POs
		to 25 th November 2020	College Bangalore Dr. Supriya V G Prof, ECE Dept. Sir MVIT Mr. Phanindar Ravi		
5	" Database Programming using Hive and Mongo DB"	27 th November 2020	Mr. Manjunath H C Senior Solutions Engineer PEGA Systems, Bengaluru	102	
6	"Understanding Word Embeddings"	28 th November 2020	Mr. Pramod Vadiraja Senior Product Engineer Sprinklr	105	
7	"Web Scraping with Python"	24 th December 2020	Mr. Nithin Kumar T Senior Business Intelligence Analyst , Dell Technologies, Dublin , Ireland	250	PO6, PO7,
8	"Machine Learning"	6 th June 2021	Manish Kumar Singh Head sales at ATS Infotech Pvt. Ltd.,	160	PO8,PO10
9	"Cyber Security & Its Applications"	10 th June 2021	Mr. Suren Kulkarni Chief Revenue Officer, Ridgeback Network defense Inc.	110	
10	"Process Scheduling Challenges in Multi – Core Systems	16 th July 2021	Dr. Sheela Kathavate Associate Professor, Dept. of ISE, BMSIT&M	100	

GAP: Technical and Management Skills

No.	Action Taken	Date	Resource person	No. of the participant s	Relevance to POs
11	"Business Pitch 101"	23 rd October 2020	Mr. Sushen Kumar Software Engineer, Chefling Inc	120	
12	"Glimpses into the world of security"	24 th October 2020	Prof. M Madhavi Dept. of CSE, Anurag University	127	
13	"Entrepreneurship & Innovation as Career Opportunity"	14 th December 2020	Dr. Madhura Chatrapathy Entrepreneurship Expert, Social Enterprise Exponent	151	PO6, PO7, PO8,PO10
16	"Applications of Discrete Mathematical Structures	18 th December 2020	Mr. Mohan Kumar T G Asst. Prof., Dept. of ISE, NMIT, Bengaluru	140	
17	"Reclaiming Health By Eating Better"	28 th December 2020	Ms. Srilakshmi Sathyanarayana Holistic Nutritionist and	85]

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No.	Action Taken	Date	Resource person	No. of the participant s	Relevance to POs
			Certified Health Coach (USA), Whole & Healthful		
18	How to plan for start – ups, addressing legal and ethical issues	06 th Eebruary 2021	Mr. Gautam Khurana Co – Founder & CTO Sense Loaf Technologies Mr. Prakhar Agrawal Co- Founder & CEO, Sense Loaf Technologies	164	
19	"Health & Nutrition During Pandemic"	15 th May 2021	Ms. Ramya Mahesh Nutritionist	150	

CAY (2019-2020)

GAP: Design/development of solutions

No.	Action Taken	Date	Resource person	No. of the participa nts	Relevance to POs
1	"Python and its Applications – An Industry Perspective"	14 th June 2020	Mr. Shivaprasad H M	227	
2	"Machine Learning and its Applications – An Industry Perspective"	13 th June 2020	Mr. Manoj Raju	278	
3	"Data Science and it's Applications"	13 th June 2020	Mr. Rohit SarDeshpande	275	
			Mr. Ravi Kiran R Site reliability Engineer at LINKEDIN,		PO9, PO10
	"Glug Dev Days" Webinar (s) / Workshops	30 th May 2020	Mr. Abhijeet Singh Software Developer at Danske Bank, Mr. Ujwal Kumar		
4		to 14 th June 2020	Founder of Chillitray Technologies, Mr. Ravi Jain	225	
			Co- Founder of Chillitray Technologies,		
			Mr. Vipual Gaurav student representative for MLH,	1	
5	"Engineers as an Entrepreneur"	29 th May 2020	Ms. Mansi Chadha, Co-Founder at Clean Hives	175	
6	iOS App Development using	11 th March 2020	Ms. Prashanthi Mr. Rudra	- 123	
	Swift	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Stephen Graham		1
		06 th October	Abhijeet Singh	120	
7	Microsoft Minihack: AI Gaming	2019	Ujwal Kumar	- 120	
			Harsh Gahlot Aditya Raman	-	
			Autya Kaman	_	

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No.	Action Taken	Date	Date Resource person		Relevanc to POs	
			Prabal Gupta			
			Ravi Jain	_		
			Abhijeet Singh			
		11 th -12 th	Avikant	400		
8	Google AI Explore ML	October 2019	Sanyam	_		
			Ritesh			
			Vipul Gaurav			
	Hackathon "NASA Space Apps Challenge"	24 th – 25 th September 2019	Katapally Saikiran			
			Local lead of SpaceApps	50		
9			Hyderabad,	Teams		
			Founder and CEO of SUMVN			
			Srishti Nema			
	M III D III	06th October	Akshay Dinesh	_		
10	Mozilla Bangalore Hacktoberfest	2019	Masoomi Saxena	120		
	nacktoberrest	2019	AswinGopinathan			
			Jyotsna Gupta			
11	Hosting with Amazon Web	16th November	Abhijit Singh Rathore	100		
11	Services	2019	Software Engineer, ZS			

GAP: Technical and Management Skills

No.	Action Taken Date Resource person		No. of the participant s	Relevance to POs		
		10th August 2010	Ms. Asha Kumar	100		
12	Campus to corporate	10th August 2019	HR, Senior Analyst, Accenture	students		
13	National level Online Quiz for Students on " Covid – 19: Technological and Digital Transformation"	5 th June 2020	Dr. Suma Swamy	1094		
14	"Yoga Awareness for Women"	06 th June 2020 to 20 th June 2020	Yoga Guru Smt. Yogitha Prakash	15		
15	" I am Remarkable"	30 th May 2020	Ms. Preethi Guruswamy, Founder of Lean In Women in India	53	PO6, PO7,	
			Dr. Shreyas Suresh Rao,		PO8,PO10	
16	"Writing Effective Research Papers"	30th May 2020	Associate Professor,	189		
	rapers		Dept. of CSE, SCEM			
	10 1 11 Formith Mindow?		Mrs. Poornima Iyengar			
	"Conduct Leading with Mindset", "Leading with diversity" & "The	28th February	IBM University Relations Manager.			
17	decision making process	2020	Mr. Rajesh Mehta	60		
	"Managerial Skills" by IBM		Senior facilitator from IBM Mumbai			
18	"WiseKreator's workshop"	15th February	Mr. Vivek Bafana	58		

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No.	Action Taken	Date	Date Resource person		Relevance to POs
		2020	Ms. Ethisha		
			Ms. Anvesha	7	
			The co-founders of WiseKreator		
19	Women Entrepreneurship and	16 th November	Ms. Bhavana Vijay Kumar	- 15	
	leadership	2019	Entrepreneur	15	
20	MS Certification Program	6 th September 2019	Mr. Kaifi Zaka, ATS Infotech Pvt. Ltd.	70	
21	"TOASTMASTERS MOCK MEETING	10 th October 2019	Toastmasters and Distinguished Toastmasters	50	
22	DBMS & Higher Studies	4 th September	Mr. G Prakash Chakravarthy	150	
22		2019	Citibank	150	
	Ethics In Digital Business	~	Mr. Swastik NandaKumar,		
		26 th September	Offbeat Lifestyle		
23			Ramya Kirtana,	112	
25	Ethics in Digital Busiliess	2019	Offbeat Lifestyle		
			Gautham k C ,		
			Offbeat Lifestyle	7	
24	conversational AI, The new UI	15 th June 2020	Ms. Lakshya Sivarama Krishnan, Program Manager, Women Techmakers	220	
25	"Who should I become"	20 th June 2020	Ms. KanuPriya	110	
25		20 Julie 2020	Entrepreneur, Freelancer	- 110	
2	Health Management Through	1 (th Into 2020	Dr. Dileep Kumar H G		
26	Ayurveda During COVID -19 Pandemic	16 th July 2020	BAMS, MD(AYU)	150	

CAYm1 (2018-2019)

GAP: Design/development of solutions

No.	Action Taken	Date	Resource person	No. of the participants	Relevance to POs
1	SDP on HackTitans	22 nd February 02 nd March 2019	Mr. Santhosh Desai, Mr. Ganesh Kumar, Mr. Suraj mittal	110	PO9, PO10

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GAP: Technical and Managements Skills

No.	Action Taken	Action Taken Date Resource person		No. of the participants	Relevance to POs	
2	SDP on Global Diversity CFP 02 nd March 20. Day		Mr.Srujana Botcha Mr. Subhashish Panigrahi Mr.Harsh Gahlot Mr.Sunchit Lakhanpal Mr.Ujwal Kumar Mr.Aditya Raman	100	PO6, PO7,PO8,P O10	
3			Mr. Sameer Shrivasathava	35	PO9,PO10,F	
4	Seminar on Carrier Guidance	10 th May 2019	Ms. Lakshmi Rajesh, Microsoft USA.	71	011	

GAP: Modern Tool Usage

No. Action Taken		Action Taken Date Resource		No. of the participants	Relevance to POs	
5	SDP on Introduction to C++ STL 23 rd April 2019		Mr. Kanishk Sexana, DSC lead. Mr. Akshay Kumar ,Mr. Ashwin Gopinathan, Mr Aditya Raman	120	PO9,PO10	

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Attainment of Course Outcomes

Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based

Assessment of Course Outcome is based on the data gathered through:

- 1. Internal questions every question is mapped with CO and the Bloom's taxonomy level. Average of the marks students score in that particular CO is then evaluated and recorded.
- Exam questions attainment target is fixed, based on the final marks attained target is calculated equally for all Co
 Laboratory Experiment every question is mapped to one of the CO. Students are then evaluated on weekly basis. Average of their assessment is then recorded.
- Project evaluation a set of CO are framed and the students are evaluated with respect to their project exhibit during their exam.
- 5. Technical Seminar a set of CO are framed and the students are evaluated with respect to their seminar demonstration
- 6. Course End Survey Feedback from the students are collected at the end of the semester for the course

	PO Direct Assessment Methods						
Sl no	Direct Assessment Method	Description					
1.	Internal AssessmentTest	It is one of the metric to continuously assess the attainment of course outcomes, student's learning domains and thus improve the teaching- learning process. The final Assessment is based on best two test marks in theory which will be usually conducted at the end of 6 and 12 weeks of each semester. An additional test as improvement test conducted to those students who deserve to improve their internal assessment marks Average of the better marks obtained from any two tests shall be the Internal Assessment Marks for the relevant subject.					
2.	Lab Assessment Test	Lab Assessment is a metric to mainly assess student's practica knowledge with their designing capabilities. In the case of Practical, the M marks shall be based on the continuous assessment and one internal test.					
3.	Theory Semester Examination	Semester theory examinations are the metrics to assess whether all the course outcomes are attained w.r.t course objectives framed by the					
4.	Practical Semester Examination	University. Practical semester examination focuses on conduction of experiments and viva-voce.					

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PO Direct Assessment Methods							
Sl no	Direct Assessment Method	Description					
5.	Seminar	The IA marks in the case of projects and seminars in the final year shall be					
6.	Project	based on the evaluation at the end of 8th semester by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the project / seminar guide.					
7.	Project Work Viva-voce	Viva-voce examination in project work shall be conducted batch-wise.					

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PO Indirect Assessment Methods							
Sl no	Indirect Assessment Method	Description					
1.	Program Exit Survey	Collect information from the students to assess the learning outcomes of the programme.					

Program Outcome Assessment methodology, tools and frequency of use for direct and indirect method is described in the table below:

SI	Assessment Method	Assessment	Assessment
No	Assessment Method	frequency	Tool
1	Internal Assessment Test	At the end of 6 th and 12 th weeks of each semester.	Student's performance in internal assessment booklets.
2	Lab Assessment Test	At the end of the semester	Student's performance in conducting experiments.
3	Theory Semester Examination	At the end of the semester	Student's performance in university exams.
4	Practical Semester Examination	At the end of the semester	Student's performance in conducting experiments during university exams.
5	Project Phase 1 & Seminar	During the 7 th semester	Rubrics
6	Project	During the 8 th semester	Rubrics
7	Project Work Viva-voce	At the end of the 8 th semester	Student's performance in university exams
8	Programme End Survey At the end of the 8 th semester		Student survey

ASSESSMENT PROCEDURE FOR EVALUATION OF POs and PSOs

This assessment is carried out at the end of the course (end of semester):

- I First compute the CO attainments using the following procedure
- II Based on CO attainment and CO-PO-PSO mapping PO attainment is computed as
 - $PO attainment = \frac{CO attainment * Mapping strength of each PO with corresponding CO}{Maximum mapping strength}$

as illustrated below.

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CO ATTAINMENT

The assessment is carried out at the end of each semester by the course coordinators as follows. >

- The Assessment Consist of two parts:
 - 1) Direct Assessment Through internal test, university exam, project and seminar
 - 2) Indirect Assessment Through course end survey

DIRECT ASSESSMENT

Direct assessment is Calculated based on students' performance in the three internal tests. Attainment levels are computed based on the percentage of students scoring above a set target (The marks target is chosen as 60% of maximum marks) for each course.

Targets and	Level for 100 Marks		
Target %	Marks	Leve	
60% and Above 60 and above		3	
Between 50% to 59%	Between 50 to 59	2	
Below 50% Below 50		1	

- a. Attainment level3
 - a. If 60% of students scoring ≥ set target
- b. Attainment level 2
 - a. If the percentage of students scoring more than the set target is greater than or equal to 50% but less than or equal to 59%
- c. Attainment level 1
 - a. If the percentage of students scoring more than the set target is less than or equal to

This process is repeated for all three tests and the average is taken to obtain the average test

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Sample calculation:

First Test Marks Q1 Q2 Q3 Q4 C211.1 C211.1 C211.1 C211.1 C211.1 C211.1 C211.2 C211.3 C211.3 C211.2 C211.3 C211.3 SI.No. USN **Students Name** A В с с A В С В С В Α A 3.0 6.0 6.0 6.0 3.0 3.0 6.0 6.0 6.0 6.0 6.0 3.0 1 USN1 AAA 3.0 6.0 6.0 3.0 5.0 5.0 2 USN2 BBB 3.0 6.0 6.0 5.0 3.0 3.0 3 USN3 CCC 3.0 4.0 6.0 3.0 3.0 6.0 4 USN4 DDD 3.0 6.0 6.0 3.0 5.0 6.0 5 USN5 EEE 3.0 6.0 6.0 3.0 4.0 1.0 6 USN6 FFF 3.0 5.0 6.0 3.0 6.0 7 USN7 GGG 3.0 6.0 6.0 6.0 1.0 3.0

ANALYSIS OF IA MARKS

							Analysis					
SI.No.	USN	Students Name		C211.1			C211.2			C211.3		
			Tot	% Marks	Target	Tot	% Marks	Marks Target		% Marks	Target	
			104	100	100 60%	100	100 60%	Tot	100	60%		
1	USN1	AAA	15.0	100%	Y	5.0	83%	Y	8.0	89%	Y	
2	USN2	BBB	15.0	100%	Y	5.0	83%	Y	6.0	67%	Y	
3	USN3	ccc	13.0	87%	Y	3.0	100%	Ý	9.0	75%	Y	
4	USN4	DDD	15.0	100%	Y	3.0	100%	Ŷ	11.0	92%	Y	
5	USN5	EEE	15.0	100%	Y	3.0	100%	Y	5.0	42%	N	
6	USN6	FFF	14.0	93%	Y	NA	NA	NA	9.0	100%	Y	
7	USN7	GGG	15.0	100%	Y	6.0	100%	Y	4.0	44%	N	

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Ref. No. VIT/CSD/

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Analysis

No. of students Scoring Below 50% * 1 No. of students appered in the test + No. of students Scoring Between 50% to 59% * 2 No. of students appered in the test

No. of students Scoring 60% and above * 3

No. of students appered in the test

		Test CO Attain	ment			
	Level of Attainment	Attainment Level 1	Attainment Level 2	Attainment Level 3	Weighte	
	Attainment in %	Less Than 50%	Between 50% to 59%	Greater than or equal to 60%	d Average	
	Students Attempted	7	7	7	100.00	
C211.1	No of Student Scored	0	0	7		
	Weightage	1	2	3		
	Attainment	0.00	0.00	3.00		
	Students Attempted	6	6	6		
C211.2	No of Student Scored	0	0	6		
C211.2	Weightage	0	2	3	100.00	
	Attainment	0.00	0.00	3		
	Students Attempted	• 7	7	7		
C211.3	No of Student Scored	2	0	5		
C211.5	Weightage	1	2	3	80.95	
	Attainment	0.29	0.00	2.14		

C211.1 • $\frac{0}{7} * 1 + \frac{0}{7} * 2 + \frac{7}{7} * 3 = \frac{(0.00+0.00+3.00)}{3} * 100 = 100\%$

C211.2 $-\frac{0}{6} * 1 + \frac{0}{6} * 2 + \frac{6}{6} * 3 = \frac{(0.00 + 0.00 + 3.00)}{3} * 100 = 100\%$

C211.3= $\frac{2}{7} * 1 + \frac{0}{7} * 2 + \frac{5}{7} * 3 = \frac{(0.28 + 0.00 + 2.14)}{3} * 100 = 80.95\%$

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The consolidation of all the test coattainment is tabulated

	Final Analysis											
Co'S	T1 -	T2	Т3	Average								
C211.1	100.00	79.28	0.00	89.64								
C211.2	100.00	88.89	0.00	94.44								
C211.3	80.95	89.86	98.52	89.78								

Based on university exam marks

University exam target is set as average marks scored by the students.

a. Attainment level3

- If the percentage of students scoring above class average is \geq 60%then **attainment of** all COs is set to '3'
- b. Attainment level 2
 - If the percentage of students scoring more than the class average is greater than or equal to equal to 50% but less than or equal to 59%, then attainment of all COs is set to '2'
- c. Attainment level 1
 - If the percentage of students scoring more than the class average is less than or equal to 50%, then attainment of all COs is set to '1'

	-	1	-	Stati	istical Data						
Max. Marks	80		nent of n Test	Marks C	Marks Obtained by students				Level	Average Exam Target	
		Co's	Kange Students M		Range		Minimum	60%	Obtain 48	3	47.28
		C211.1			1		+				
		C211.2	94.44	17 32	0	0	55%	44	2	Target Level	
		C211.3	89.78	33-48	3	Maximum				Achieved	
				49-64	4	maximum	50%	40	1	2	
				65 80	0	60 -			<u> </u>		

Subject Name: XV7

Subject	Name: XYZ		Semest	ter:4
SI.No.	USN	Students Name	Exam Marks	Above Traget %
1	USN1	AAA	35	N
2	USN2	BBB	45	N
3	USN3	CCC	50	Ŷ
4	USN4	DDD	43	N
5	USN5	EEE	60	Ý
6	USN6	FFF	40	N
7	USN6	GGG	58	Y

Faculty Name : ASDF

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Ref. No. VIT/CSD/

Date

CO attainment through direct assessment =

0.18 * (average of CO attainment through test 1, test2, test3) + 0.72 * attainment through university exam +0.1 * Course End Survey

Co Attainment is calculated based on the following weightage

18%
72%
10%

The Test attainment, University Attainment and Course End survey values is used to calculate the level of attainment for each course outcome. Since the Test Attainment is calculated based on the performance of each student in the test and the average percentage of all the test is computed and the final level is computed. Similarly, the university Attainment is calculated by taking the class average, and if the class average is greater than 60% then the level of attainment is 3, if it is between 59% to 60% the attainment is 2 and if it is less than 50% then Attainment level is 1. As university does not provide the split of marks scored by the students to the affiliated colleges, all the CO's are assigned with same level of attainment. Following is the table showing the computation of level based on the target levels. The last column Attainment is computed as per the **Weightage** shown in the above table.

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indirect attainment (Course end survey)

Here attainment is computed based on the student's feedback collected at the end of each course.

	12200		COURSEE	ND SURVEY	
	3	2	1		. ALL BARRIES
Co' s	(80-100%)	(60-79%)	(40-59%)	Attainment Computation	Attainment
	90%	70%	50%		
C211.1	7	0	0	$\frac{7 * 0.9 + 0 * 0.7 + 0 * 0.5}{7}$	90
C211.2	6	1	0	$\frac{6*0.9+1*0.7+0*0.5}{7}$	87
C211.3	5	2	0	$5 \cdot 0.9 + 2 \cdot 0.7 + 0 \cdot 0.5$	84

final CO attainment is calculated as follows:

œ	П	গ্র	73	Average)	Test Level	UE	UE Level	CO Att = @.18*(Tesk Level)+0.72*(UE Level)	End Survey	End Survey Level	Final CO Att = CO Att @.1*Survey	00 A 83
C211.1	100.00	79.28	0.00	89.64	3	47.28	2	1.98	90	3	· 2 .28	76.00%
C211.2	85.71	88.89	0.00	94.44	3	47.28	2	1.98	87	3	2 .28	76.00%
C211.3	80.95	89.86	98.52	89.78	3	47.28	2	1.98	84	3	2.28	76.00%

Attainment Sheet:

	Staff Name	ASD	F			Subject Code	XXX				Subject Name	АВС		
	Targets and L	.evel		Te	est Attainme	nt Level	Univer	•	Surve	iy				
	Target	Valu e	Level	Co's	% Attain ed	Level	% Attain ed	Lev el	% Attaine d	Lev el	Attainment		Weighta	je –
60 %	60% and Above	48	3	C211. 1	89.64	3	47.28	2	90	3	2.28		Test %	18%
55 %	Between 50% to 59%	44	2	C211. 2	94.44	3	47.28	2	87.84	3	2.28	1	University %	72%
50 %	Below 50%	40	1	C211. 3	89.78	3	47.28	2	85.41	3	2.28	-	Survey %	10%

Semester	4
Academic Year	Yyyy-zz
Class Strength	7
Maximum Marks	80

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	BUTION TO PRO							yy	yy-zz					,	TAKE TEAT 2	XXX IOF AC	demic	(ear
	CO's								o Outcom						the second se	m Specific	No. of Concession, Name	-
			1	2	3	4	5	6	7	8	9	10	11	12		and the second second second second	Juccon	le.
C211.1	Mapping								2	-	-			12		2	3	4
	Attainment	2.28			+	-	-	-			_			3		2		
C211.2	Mapping		2	1	+	-	-	-	1.52					2.28		1.52		
C211.2	Attainment	2.28	1.52	2.28	-	-									2		1	
C211.3	Mapping		2	2.28	-	-	_								1.52			
0113	Attainment	2.28	1.52		-	-	-							2				
	C211		1.52	2.28	-	-	-							1.52				
			2.28					1.52					1.9	1.52	1.52	-		

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PO attainment for a specific Course outcome is calculated based on the map level and maximum level for example in case of C211.3 V/s PO1 the map level is 2 and Co attainment is 2.28 then the attainment of PO1 with regard to C211.3 is calculated as [2.28*(2/3) = 1.52]. the same calculation is for all the cells mapped.

Final CO attainment = 0.9*(CO attainment through IA & UE)+0.1*attainment through survey

% CO attainment = $\frac{Final CO attainment}{Maximum possible attainment} \times 100$

3.2.1. Record the attainment of Course Outcomes of all courses with respect to set attainment levels (40)

-		Cour	se outcom	e's CIE				Date Dates				
SI No	Subject Code	Course Code	C01	CO2	C03	C04	C05	C01	Course CO2	CO3	e's SEE CO4	CO5
					Third Ser	nester	1	1				
17	17MAT31	C201	45.32	45.32	45.32	45.32	45.32	45.19	45.19	45.19	45.10	
18	17CS32	C202	96.97	90.36	97.53	95.30	101.04	33.36	33.36	-	45.19	45.19
19	17CS33	C203	90.42	76.26	87.82	89.23		28.73	28.73	33.36	33.36	-
20	17CS34	C204	97.42	92.37	97.33	87.5		30.80	30.80	28.73	28.73	-
21	17CS35	C205	93.91	90.7	96.15		-	31.1	31.1	30.80	30.80	
22	17CS36	C206	76.67	95.95	75.21	96.78	91.45	28.67	-	31.1		
23	17CSL37	C207	73.59	73.59	73.59	10.10	71.45	49.10	28.67	28.67	28.67	28.67
24	17CSL38	C208	79.59	79.59	79.59	79.59	79.59	73.89	49.10	49.10		
				F	ourth Ser		19.39	/3.89	73.89	73.89	73.89	73.89
25	17MAT41	C209	74.19	74.19	74.19	74.19	74.19	17.17	17.12	it.		
26	17CS42	C210	94.68	92.70	96.62	/4.15	/4.19	47.43	47.43	47.43	47.43	47.43
27	17CS43	C211	91.26	91.10	89.58	97.70	-	30.72	30.72	30.72		
28	17CS44	C212	100.00	88.74	83.74	87.97	-	30.82	30.82	30.82	30.82	
29	17CS45	C213	97.77	98.53	98.39	97.56	00.20	30.49	30.49	30.49	30.49	
30	17CS46	C214	98.10	96.94	94.37	100.00	98.26	27.48	27.48	27.48	27.48	27.48
31	17CSL47	C215	73.43	73.43	73.43	73.43	93.10	33.54	33.54	33.54	33.54	33.54
32	17CSL48	C216	76.99	76.99	76.99	76.99		65.43	65.43	65.43	65.43	
			1,007		Fifth Sem			60.85	60.85	60.85	60.85	
33	17CS51	C301	99.08	98.55	99.11	ester						
34	17CS52	C302	82.22	92.30	95.47	07.22	26.00	36.63	36.63	36.63		
35	17CS53	C303	84.93	81.87		97.33	96.00	33.96	33.96	33.96	33.96	33.96
36	17CS54	C304	85.00		87.81	91.32		26.41	26.41	26.41	26.41	
37	17CSL57	C314	75.13	83.88	88.38	84.99	88.90	27.45	27.45	27.45	27.45	27.45
38	17CSL58	C315		75.13	75.13			46.14	46.14	46.14		
	1/052.00	015	76.85	76.85	76.85			52.37	52.37	52.37		
39	17CS61	C11/	00.77		ixth Sem	ester						1
40		C316	99.77	99.31	99.65			30.56	30.56	30.56		
	17CS62	C317	94.43	94.43	94.43			45.02	45.02	45.02		
41	17CS63	C318	99.67	99.05	98.24			47.03	47.03	47.03		
42	17CS64	C319	95.16	100.00	99.77	98.15		47.26	47.26	47.26	47.26	

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		Cou	arse Outco	me Analy	sis - 17 S	cheme (2	017 Inta	ke Batch)			
			e outcome							outcom	e's SEE	
Sl No	Subject Code	Course Code	C01	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	C05
43	17CSL67	C330	62.50	62.50				47.71	47.71			
44	17CSL68	C331	72.51	75.00				47.72	47.72			
				Se	venth Ser	nester						
45	17CS71	C401	75.00	75.00	75.00	75.00	75.00	30.62	30.62	30.62	30.62	30.62
46	17CS72	C402	100.00	99.07	99.07			27.58	27.58	27.58		
47	17CS73	C403	100.00	100.00	100.00			31.12	31.12	31.12		
48	17CSL76	C412	85.00	85.00	85.00			72.63	72.63	72.63		
49	17CSL77	C413	66.10	66.10	66.10			88.10	88.10	88.10		
				E	Light Sem	ester						
50	17CS81	C414	80.20	80.20	80.20	.80.20	80.20	65.84	65.84	65.84	65.84	65.84
51	17CS82	C415	76.67	95.95	75.21	96.78	91.45	28.67	28.67	28.67	28.67	28.67
52	17CS84	C420	100.00	100.00	100.00			20.07	20.07	20.07	20.07	20.07
53	17CSP85	C421	90.00	90.00	90.00.	90.00	90.00	97.25	97.25	97.25	97.25	97.25

3.3. Attainment of Program Outcomes and Program Specific Outcomes (50)

3.3.1. Describe assessment tools and processes used for measuring the attainment of each

of the Program Outcomes and Program Specific Outcomes (10)

PO Assessment Tools

Assessment tools are categorized into Direct and Indirect methods to assess the programme educational objectives, program outcomes and course outcomes.

Direct method addresses the students' knowledge and skills from their performance in the internal tests, university examination, projects, seminars and assignments.

Indirect method such as surveys which reflect on student's learning. Indirect method also clearly depicts the level of learning of a student.

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Method of measuring PO attainment	Parameters	Basis of determining whether course outcome has been achieved	Weightage in % for each parameter	Basis for determining whether program outcome has been achieved	Frequency of the process
Direct	CIE	At least 60% of the students appearing for each of the tests should have obtained a minimum mark of 60% with respect to each of the course objectives stated	18%	Based upon the overall attainment of individual CO's the contribution of the PO's to which they map is calculated. If this contribution exceeds >- 60% then the PO is said to be achieved	Thrice a Semester Three Internal Tests/ course whose individual questions map to the Cos stated.
inculou	SEE	At least 60% of the students appearing for the exam should have obtained a minimum mark of 60%	72%	The % of students whose average marks in the University exam are >= 60% is computed & this is the % contribution to the POs via the exam. If this contribution exceeds >=60% then the PO is said to be achieved	Once at the End of the semester
Indirect Method	Course – exit survey by students	Level of 3,2,1 where 3=(80-100%), 2=(60- 79%) 1=40-59%	10%		Once at the End of Semester

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3.3.2 Provide results of evaluation of each PO and PSO

			•		Resu	lts of e			of 2017 ch PO		of 2017	Batch					
SI N	Subject Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3	PSO 4
1	17MAT1 1 (C101)	1.3 2	1.9 8										1.16				
2	17PHY12 (C102)	2.8	2.8 5	2.8 2									1.94				
3	17CIV13 (C104)	3	2.7														
4	17EME1 4 (C106)	2	1					1					1.75				
5	17ELE15 (C108)	1.6 2	1.6 2	1.6 2			1.62										
6	17WSL16 (C110)	1.8 8	1.4										0.94				
7	17PHYL 17 (C112)	1.8	1.8	1.8	1.8			~					0.9				
8	17CPH18 (C115)	2.7					1.8		2.7								
9	17MAT2 1 (C116)	1.3 2	1.9 8										1.16				
10	17CHE22 (C103)	3	3										2				
11	17PCD23 (C105)	1.9 8	0.7 6	2.0 3		1.5				_				2.13	1.77		
12	17CED24 (C107)	1.8 8	0.9 4			1.6 5							0.94	1.88	0.94		
13	17ELN25 (C109)	3	1.8	2.4													
14	17CPL26 (C111)	3	2.3 3	3	2								3				
15	17CHL27 (C113)	2.7	2.7							1.8	1.8						
16	17CIV28 (C114)	2.8					1.87	1.8 7	1.4			0.93	0.93				
17	17MAT3 1 (C201)	1.3 4	2.0 1					•					1.17				
18	17CS32 (C202)	1.2 7	2.2 8	2.2 8	2.2 8	1.5 2		0.7 6					0.76	2.03	2.28	1	0.76
19	17CS33 (C203)	1.5 6	1.5 6	1.5 6	1.0 4	1.0 4								2.5	2.33		
20	17CS34 (C204)	2.2 5	2.5 0	2.6 7	2.3 3								1.0	3.0	3.0		
21	17CS35 (C205)	2.2 8	2.2 8	2.2 8										3	3		
22	17CS36 (C206)	3	3	3	2	2		~						2.5	3		
23	17CSL37 (C207)	1.2 5	2	3		3				3				1	3	2	
24	17CSL38 (C208)	2	2 .33	2 .33	1	2			2	2	2	2		2.5	2.5		1
25	17MAT4	1.7	2.6										1.58			1	+

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Ref. No. VIT/CSD/

Date

					Dee			inment									
SI	1	T				ilts of e	valuati	on of ea	ch PO	& PSO	of 2017	Batch			· · · · · ·		
N	Subject	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PO1	PO1	PSO	PSO	PSO	PSO
0	Code	1	2	3	4	5	6	7	8	9	0	1	2	1	2	3	4
	1 (C209)	6	4				1	t		1		ł			<u> </u>		
26	17CS42	1.7	1.5	1.5	1.5	1.5			1.5			1			1		
	(C210)	7	2	2	2	2			2		1.52			1	3	3	3
27	17CS43	2.2	2.2	1.7	1.5	1.5	.1.5		-								
	(C211)	8	8	7	2	2	2						1.33	2.28	1.90	1.52	0.76
28	17CS44	2.0	2.2	2.2		1.5	0.70		0.7			1	1				
-	(C212)	9	8	8		2	0.76		6					2.33	3		1
29	17CS45	1.3	1.5	1.5	1.3	1.5		-	1.5	1.5	1.00		0.52	0.07	0.07		
-	(C213)		6	6	1.5	6			6	6	1.56		0.52	0.87	0.87		
30	17CS46	2.0	1.7	2.0	1.9	2.2		I						1.70			24
-	(C214)	9	1	9	1.5	8						-	1.01	1.76	2.64		2.64
31	17CSL47	1.7	1.7	2.7	3					3							
-	(C215)	5	5	5	5		-			3			3	3	3		
32	17CSL48	3		3	3					3		1	3	2.5	2		
-	(C216)			ļ.,						3		1	3	2.5	2		
33	17CS51	2	1	2	3		2	1.5	3				2			1 10	1.00
	(C301)						-	1.5	5				2			2.28	1.52
34	17CS52	1.9	1.2	0.8	1.9								1.28	1.27	1.52	1.52	
	(C302)	2	8		2								1.20	1.27	1.52	1.52	
35	17CS53	1.9	2.2	2.2		2.2			1.5	1.5	1.52		1.52	0.78	1.56	1.04	1.04
	(C303) 17CS54	+	8	8		8	-	-	2	2	1.52		1.52	0.78	1.50	1.04	1.04
36	(C304)	1.9	2.2	2.2		2.2								1.33	2.09		
-	17CSL57		8	8		8		L						1.55	2.09		
37	(C314)	2	2.6	2.5	1.6	2				3			3	1	3		
	17CSL58	+	+ <u>'</u>	-	7										3		
38	(C315)	2.5	3	3	3	3			3	3	3		3	3	3		
	1CS61	2.2	1.2	2.2	1.5			+			-						
39	(C316)	8	7	8	1.5		1.27	1.1	2.2				1.14	2.2	1.76		2.64
	17CS62		2.2	1.7	2.2	1 2 2		4	8						1.70		2.04
40	(C317)	1.9	8	1./	8	2.2 8				1.5	1.52	2.28		1.9	1.9		
	17CS63	1.7	0	<u> </u>	0.7	2.2				2							
41	(C318)	7		1.9	6	8								1.71	1.28		
	17CS64	2.2	2.2		0	0			-							£	
42	(C319)	5	5	2.5	2.5									2.25	3		
	17CSL68							-		-							
43	(C331)	3	2	3		3			1.5	2				3	2.5		
	17CSL67	1															
44	(C330)	3	3	2	2	2								3	2		
	17CS71	1.6		2.0		2.2				-		<u> </u>					
45	(C401)	7		3		8								1.52	2.28		1.52
						-							· .				
46	17CS72	1.2	1.5	1.5	1.0	1							1. 3				
	(C402)	1	6	6	4								3	2.35	2.64		1.76
	17CS73	1.3			1.5			-				+					
47	(C403)	9	1.3		6						0.52				1.37		
	17CSL76	2.2						-		-					+		
48	(C412)	5	1	3	2	3			1	2	1		1	1.5	2.5	3	3
	17CSL77	5		2.3		2.6		-									
49	(C413)			3		7	2							3	3		
50	17CS81	2	2.2	2	1.5	1.7	1.3	1	2	1							
50	170.001	-	4.4	-	1.5	1./	1.5	1	4	1			1.2	2	1.6		

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

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Date

							Atta	inment	of 201	Batch							
					Resu	ilts of e	valuatio	on of ea	ch PO	& PSO	of 2017	Batch					
SI N	Subject Code	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3	PSO 4
	(C414)				,												
51	17CS82 (C415)	3	3	3	2	2								2.50	3		
52	17CSP85 (C421)	2	1.6 7	3	2.5	3	2	2	3	3	3	2	3	3	2.5	1.25	1.7
53	17CS84 (C420)	1	1		1	1	1	1	3	3	2.5	3	3	3	3	3	3
54	17CSS86 (C421)		3		2					1.5	3		2.33		2.5	2	1.3
	Total 54 Courses	2.0	2.0	2.2	1.9	2.0	1.56	1.2	2.0	2.2	1.91	1.87	1.67	2.13	2.33	2.12	1.8

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Date

PO attainment level

			Pr	ogram O	utcome A	ttainmer	nt of 2017	Batch							cific Outc of 2017 Ba	
Details	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO
Target Level	2.4	2.4	2.7	2.2	2.3	1.8	1.5	2.3	2.4	2.41	2	1.9	2.3	2.59	2.36	2.12
Direct Attainment	2.09	2.01	2.28	1.9	2.07	1.56	1.28	2.02	2.24	1.91	1.87	1.67	2.13	2.33	2.12	1.84
Indirect Attainment	2.24	2.22	2.05	2.22	2.25	2.23	2.3	2.39	2.39	2.47	2.34	2.46	2.46	2.51	2.46	2.51
PO Attainment	2.12	2.05	2.23	1.96	2.11	1.69	1.48	2.09	2.27	2.02	1.96	1.83	2.20	2.37	2.19	1.97

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DEPARTMENT OF BIOTECHNOLOGY

NAAC: CRITERIA-2

2.6.2: CO-PO ATTAINMENT



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2017 - 2021 BATCH PO ATTAINMENT

Subjects	POI	P02	P03	P04	P05	P06	P07	P08	60d	POTO	POIL	0113	DCO 1	C () 30	5 V 30	000
17MAT11-C101	1.28	1.92								1 010	TIOT	1.12	Inel	1061	c Der	PSO 4
17CHE12- C102	3	3					8					2			-	
17PCD13-C103	2.22	2.22	1.48	2.22										-		
17CED14 - C104	1.84	0.92			1.61										•	•
17ELN15-C105	2.22	1.33	1.78													
17CPL16-C106	3	2.33	3	7												
17CHL17-C107	2.7	2.7							1.8	1.8						
17MAT21-C109	1.28	1.92										1.12				
17PHY22-C110	1.25	1.22	1.08									0.77				
17CIV23-C111	2.22	2.04														
17EME24-C112	2	I					1									
17ELE25-C113	2.12	2.1	2.14			2.1										
17WSL26-C114	2	1.5										-				
17PHYL27-C115	1.8	1.8	1.8	1.8								0.9				
17MAT31-C201	1.4	2.1										1.23				
17BT32-C202	2.46	2.13	0.82				1						2.46	0.82		
17BT33-C203	2.46	1.37	0.82				1.64			•			2.46	0.82	1.64	
17BT34-C204	3.00	1.33	1.00				2.00					.	3.00	1.00	1.50	-
												T	Child Chageshing	UCLASS	day 1	
											0	A	Department of Biotechnology	of Biotechu	nology	

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PSO 4		1															
PSO 3	2.46		1		1				1.59			2.00		-	3	0.82	
PSO 2	1.23	2.46	-	1	1.67	0.82		1.64		1	1.00	2.50	2.00	1	2.67	0.82	1.00
PSO 1	2.46	2.46	e	e		2.46	2.46	2.46	2.39	3	2.33	3.00	3.00	e.	3	2.46	1.67
P012												3		1			
POII																	
PO10											2						
P09																	
P08																	
P07				1.33										1.00			
P06										3				1.00	2.75		
P05		2.19			1.00				1.59						7	1.64	
P04	1.64			2.5	3.00	1.64				2	2.00	3	1.5				2.33
P03		2.19				1.37		0.82				7	2.33	1.00	13		
P02	1.91	0.82	3	2.33	1.50	1.91	_	2.46	0.80		1.50		3	1.00	5	1.64	1
POI	2.19	2.19	ю	3	2.00	2.46	2.46	2.46	2.39	ю	2.33	Э	e	3.00	3	2.46	1.67
Subjects	17BT35-C205	17BT36-C206	17BTL37-C207	17BTL38-C208	17BT41-C209	17BT42-C210	17BT43-C211	17BT44-C212	17BT45-C213	17BT46-C214	17BTL47-C215	17BTL48-C216	17BT51-C301	17BT52-C302	17BT53-C303	17BT54-C304	17BTL57-C312





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PSO 4		3.00											0.76	3.00	1	3	0.90
PSO 3	2	2.00	1	1.29	1	1	7	3	1	2.26		1.67	1.52	2.00	-	2.5	1.20
PSO 2	3		2	1.29	1.5	2	2	2.5	-	1.93	3	2.33	1.52	2.00	1	2	1.20
PSO 1	5		ę	1.61	3	2.67	9	3	e	1.93	2	2.67	1.9	2.33	ę		1.50
P012													2.28			~	1.50
P011		2.50											1			e	2
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P06				0.97									2.28	3	2	5	1.80
P05	3				3	1		2	I				1.52				1.20
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POI	2.75		3	2.9	5	2.67	з	з	e	2.9	7	3	0.76	s	e		0.60
Subjects	17BTL58-C313	17BT61-C314	17BT62-C315	17BT63-C316	17BT64-C317	17BTL67-C325	17BTL68-C326	17BT71-C401	17BT72-C402	17BT73-C403	17BTL76-C412	17BTL77-C413	17BTP78-C414	17BT81-C415	17BT82-C416	17B184-C420	17BT85-C421





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Subjects	POI	P01 P02	P03	P04	P05	P06	P07	P08	P09	P010	POIL	P012	PSO 1	PSO 2	PSO 3	PSO 4
17BT86-C422	1.01	1.52		1.52		0.76	0.76	0.76		2.28		1.52	1.33	1.33	1.14	0.76
vg Attainment	2.36	2.36 1.87	1.67	1.95	1.75	1.97	1.48	2.06	1.96	2.23	2.75	1.45	2.53	1.60	1.61	1.77





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2017 - 2021 BATCH PO TARGET

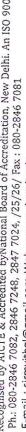
Subjects	P01	P02	P03	P04	P05	P06	P07	P08	P09	PO10	P011	PO17	DCO 1	C U Sa	000	
17MAT11-C101	2	3									1101	1 75	1001	1907	1903	PS0 4
17CHE12- C102	3	3														
17PCD13-C103	3	3	2	3								7				
17CED14 - C104	2	1			1.75									•		
17ELN15-C105	3	1.8	2.4													
17CPL16-C106	3	2.33	3	2												
17CHL17-C107	3	3							2	7						
17MAT21-C109	2	3										1.75				
17PHY22-C110	3	3	3									c				
17CIV23-C111	3	2.75										4				
17EME24-C112	2	1	-				1									
17ELE25-C113	3	3	e			e						2				
17WSL26-C114	7	1.5														
17PHYL27-C115	5	7	5	7												
17MAT31-C201	6	3														
17BT32-C202	3	2.6	1					2				C/-1	3	1		
17BT33-C203	3	1.67	1				2									
17BT34-C204	3	1.33	-				1 2					•	0 0	-	77	
17BT35-C205	2.67	2.33		13									о с	- 1	c.	1
17BT36-C206	2.67	1	2.67		2.67								0 "	ci c	γ	
17BTL37-C207	3	3											0 4	0 -		
17BTL38-C208	3	2.33		2.5			1.33						o ~		1	
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17BT42-C210	e	2.33	1.67	1									3	1	-	
17BT43-C211	3													•		
17BT44-C212	3	3	1			a.							0 0			
17BT45-C213	3	-		0	7								n m	7	~	
17BT46-C214	3			5		3							3	-		
17BTL47-C215	2.33	1.5		5	ļ								2.33			
17BTL48-C216	e		7	3								6	e	2.5	•	
17BT51-C301	ß	e	2.33	1.5								7			8	
17BT52-C302	3	1	1			1	1						າຕ	- 1	-	
17BT53-C303	3	ы	7		3	2.75							e	2.67		
17BT54-C304	3	7			5								3	-		
17BTL57-C312	1.67	1		2.33									1.67	-		
17BTL58-C313	2.75	2.5			3									. 6	2	
17BT61-C314								2.5			2.5		1		5	3
17BT62-C315	3	3	5	1									3	7		e
17BT63-C316	3	2.5	1			1			4				1.67	1.33	1.33	
17BT64-C317	2	3	3		3								3	1.5	-	
17BTL67-C325	2.5	2.5	5	1	I								2.67	2	-	
17BTL68-C326	3	2	2.5	5									3	2	2	
17BT71-C401	3	3	2.33	3	5		2							3 C	~	
17BT72-C402	3	1			-								. "	-	•	
17BT73-C403	3	1	1				-							- (
17BTL76-C412	7	7	1	1									10	3 6	CC-7	





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Subjects	POI	P01 P02	PO3	P04	P05	P06	PO7	POS	DOO	DOTO	1100	0.00				
		35	~	226		2		001	COT I	LUIN	LUII	rui2	PS01	PSO 2	PSO 3	PSO 4
17B1L77-C413	,	?	4	CC-7									2.67	2.33	1.67	
17BTP78-C414	1	ŝ		e	5	3	3	3	3	3		5	35	6		
												,	2.4	4	4	-
1/B181-C415	3	-	1	2		ŝ		~						¢		
17RT82_C416	ę	1		-		2							4.33	7	2	3
						1							ŝ	I	1	1
1/B184-C420		5		61		6		ŝ		3	3	2		6	ų	
17RT85 CA21	-	•										ı		4	1	n
1740-001011	1	4		1	2	m	ŝ	ŝ	ŝ	3		2.5	2.5	c	,	-
17BT86-C422	1 22	c												1	4	3
	1.00	4		7		I	-	1		3		6	1.75	1.75	15	-
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Avg Target	2.62	2.1	1.88	2.08	1.96	2.25	1.73	2.42	2.67	2.8	2.75	1 0	NT C	E		
										2		1.1	\$ 1.2	C/-T	1./4	56

ar M Visvesvuraya Institute of Technology Department of Biotechnology Dr M.G. Nagendra BANGALORE-SEZISI Professor & Head



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CIVIL ENGINEERING DEPARTMENT

Establish the correlation between the Courses and the Program Outcomes and Program Specific Outcomes (PSO) (20)

(Program Outcomes as mentioned below and Program Specific Outcomes as defined by the Program).

Table1 shows the list of Program Outcomes (POs)

Table 1: Program Outcomes (POs)

PO's	Program Outcomes (POs)
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

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Contraction of the later	
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the
107	knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member
	or leader in diverse teams, and in multidisciplinary settings.
	Communication: Communicate effectively on complex engineering activities with
PO10	the engineering community and with society at large, such as, being able to
1010	comprehend and write effective reports and design documentation, make effective
2	presentations, and give and receive clear instructions.
	Project management and finance: Demonstrate knowledge and understanding of
DO11	the engineering and management principles and apply these to one's own work, as
PO11	a member and leader in a team, to manage projects and in multidisciplinary
	environments.
	Life-long learning: Recognize the need for, and have the preparation and ability to
PO12	engage in independent and life-long learning in the broadest context of
	technological change.

Table 2 shows the list of Program Specific Outcomes (PSO's)

Table 2: Program Specific Outcomes (PSO's)

PSO's	Program Specific Outcomes (PSO's)
	Identify the broad context of civil engineering problems, including describing the
PSO1	problem Conditions, identifying possible contributing factors and generating
	alternative solution strategies.
PSO2	Undertake laboratory, field and other data collection efforts using commonly used

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	measurement techniques to support the study and solution of Civil Engineering problems.
PSO3	Employ mathematics, science and computing techniques in a systematic, comprehensive and rigorous manner to support the study and solution of civil engineering problems.
PSO4	Exhibit good teamwork skills and serve as effective member of multi-disciplinary project teams.

Course Outcomes (COs) (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (05)

Table 3 shows course example outcomes of the course taken from each semester of academic year from 2018 - 2019 onwards

Table 3: Course Outcomes of the course from each semester

Semeste	r: III
Year of	study: 2019 – 2020
Course	Code: C203
Course	Name: Fluid Mechanics
After su	ccessful completion of the course, the student will be able to:
C203.1	Apply the knowledge of engineering fundamental to Understand the knowledge of fundamental properties of fluids and fluid continuum
C203.2	Apply the knowledge of mathematics and science to analyze the problems on hydrostatics including practical applications
C203.3	Apply principles of mathematics to represent kinematic concepts related to fluid flow
C203.4	Apply fundamental laws of fluid mechanics and the Bernoulli's principle for

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	practical applications
C203.5	Analyse and design the discharge of water flowing through pipes and over notches
	and weirs
Semeste	r: IV
Year of	study: 2019 – 2020
Course	Code: C211
Course	Name: Analysis of Determinate Structures
On the c	ompletion of this course students are expected to attain the following outcomes;
C211.1	Identify different forms of structural systems.
C211.2	Construct ILD and analyse the beams and trusses subjected to moving loads
	Applying knowledge of science and mathematics to understand the energy
C211.3	principles and energy theorems and its applications to determine the deflections of
	trusses and beams.
C211.4	Determine the stress resultants in arches and cables
Semeste	r: V
Year of	study: 2020 – 2021
Course (Code: C303
Course I	Name: Design of RC Structural Elements
On the co	ompletion of this course students are expected to attain the following outcomes;
C303.1	Apply the design philosophy and principles in design.
C303.2	Solve engineering problems of RC elements subjected to flexure, shear and torsion.
C303.3	Demonstrate the procedural knowledge in designs of RC structural elements such
0303.5	as slabs, columns and footings.
Semester	:: VI
Year of s	study: 2020 – 2021
Course (Code: C312

Course Name: Hydrology and Irrigation Engineering

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After studying this course, students will be able to:

I	
C312.1	Applying the concept of hydrology, hydrological cycle, quantify the runoff and
CJ14.1	concept of unit hydrograph.
C312.2	Learn the methods of irrigation, irrigation procedure, application of water and water
C312.2	requirement for various crops.
C312.3	Learn to design the canal. Its alignment and reservoir capacity.

Semester: VII

Year of study: 2021 - 2022

Course Code: C401

Course Name: Quantity Surveying & Contracts Management

After studying this course, students will be able to:

C401.1	Taking out quantities and work out the cost and preparation of abstract for the
C401.1	estimated cost for various civil engineering works.

C401.2 Prepare detailed and abstract estimates for various road works, structural works and water supply and sanitary works.

C401.3 Prepare the specifications and analyze the rates for various items of work.

C401.4 Assess contract and tender documents for various construction works

C401.5 Prepare valuation reports of buildings.

Semester: VIII

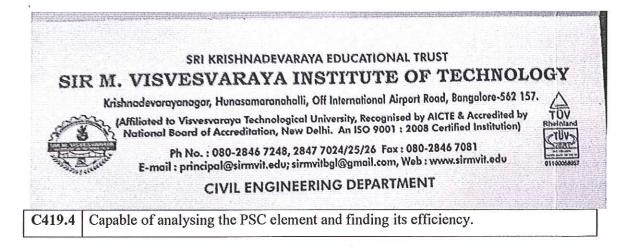
Year of study: 2021 - 2022

Course Code: C419

Course Name: Design of Pre-stressed Concrete

After studying this course, students will be able to:

C419.1	Relate the requirement of PSC members for present scenario by applying
C419.1	engineering fundamentals.
C419.2	Analyse the stresses encountered in PSC element during transfer and at working.
C419.3	Design of PSC beam after studying losses and for different requirements.



CO-PO matrices of courses selected in above table (six matrices to be mentioned; one per semester from 3rd to 8th semester

Table 4a & 4b shows CO-PO-PSO matric of example course outcomes of the course taken from each semester of academic year from 2018 – 2019 onwards

Table 4a: CO-PO Matrix – 2018 Batch

Course Name: Fluid Mechanics (C203)

Year of Study: 2019 - 20

Course	COs]	POs					
Course	COS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	P012
d S	C203.1	2										-	
) Cour ie: Flui	C203.2	2	2										
er: III 19-202('se Nam nics	C203.3	2											
Semester: III Year of study: 2019-2020 Course Code: C203 Course Name: Fluid Mechanics	C203.4	2											
ar of sti de: C20	C203.5		2	1					с. С.				
Ye	C203	2	2	1									
of s	C211.1	3											
IV 19-20 C211 C211 ralysis ucture	C211.2	3	3			-							
Semester: IV Year of study: 2019-2020 Course Code: C211 Course Name: Analysis of Determinate Structures	C211.3	3	3		-								
Serr Serr of sta Course Trse Na stermir	C211.4	3	3			2	-						
Do Cou	C211	3	3										
2021 Course Code: C303 Course Name: design of	C303.1	3	2	2									
2C Code: National Con Con Con Con Con Con Con Con Con Con	C303.2	3	2	2				0					

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Course	COs		POs											
Course	COS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12	
	C303.3	3	2	2										
	C303	3	2	2										
22 2021 22 2020 80	C312.1	2	1								9 I	6		
Semester: VI of study: 2020-2 urse Code: C31 Name: Hydrolc ation Engineeri	C312.2	2	1											
Semester: VI Year of study: 2020-2021 Course Code: C312 Course Name: Hydrology & Irrigation Engineering	C312.3	2	1	1										
Yea Cour	C312	2	1	1										
Year of e: C401 ontracts	C401.1	3	3							I				
Year of Course Code: C401 rveying & Contracts ent	C401.2	3	3											
1 Cour uantity Surveyii Management	C401.3	3				-	2							
021 quantity Manaş	C401.4	3			,		đ		** 1					
Semester: VII Year of study: 2020-2021 Course Code: C401 Course Name: quantity Surveying & Contracts Management	C401.5	3												
Seme: study Courr	C401	3	3				2							
2021 9 of PSC	C419.1	2				*						2		
Semester: VIII Year of study: 2020-2021 Course Code: C419 Course Name: Design of PSC	C419.2		2		-									
Semest ar of stud Course C se Name:	C419.3			2										
Yes	C419.4		2											

-tr Len Lum.~ Dept. of Civil Engg. MVIT, Bangalore-562 15)

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Course	CO	POs												
Course	cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12	
	C419	2	2	2										

Table 4b: CO-PSO matrix - 2018 Batch

Commo	COs		PSO	Os	
Course	COS	PSO1	PSO2	PSO3	PSO4
ß	C203.1	2		1	
.2020 03 echani	C203.2	1		2	
2019- 2019- uid Mo	C203.3	2			
Semester: III Year of study: 2019-2020 Course Code: C203 Course Name: Fluid Mechanics	C203.4			2	
S cour Se Na	C203.5		2	2	
Cou	C203	1.67	2	1.75	
° of 20	C211.1	3		2	
IV 19-20: C211 talysis ucture	C211.2	3		2	
Semester: IV Year of study: 2019-2020 Course Code: C211 Course Name: Analysis of Determinate Structures	C211.3	3		2	ji.
Sem of stu ourse se Nat termin	C211.4	3		2	
Cour Cour	C211	3		2	
303 ants	C303.1	2		3	
Semester: V Year of study: 2020-2021 Course Code: C303 Course Name: design of RC Structural Elements	C303.2	2		3	
Semester: V (ear of study 2020-2021 irise Code: C Course Name design of RC ictural Eleme	C303.3	2		. 3	
Stra	C303	2		3	
312	C312.1	2		1	
Semester: VI Year of study: 2020-2021 2020er: C312 Course Code: C312 Course Name: Hydrology & Engineering	C312.2	2		1	
Semester: V /ear of study 2020-2021 urse Code: C Jourse Nam Hydrology 6 Irrigation Engineering	C312.3	2		1	
e sor	C312	2		1	
0- 00310	C401.1	2		3	15

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	C401.2	2	3	
5	C401.3	2	3	
4	C401.4	2	2	
	C401.5	2	3	
	C401	2	2.8	
0f	C419.1	2		
VIII 2020-20 2020-20 Design	C419.2	2		
Semester: VIII Year of study: 2020-2021 Course Code: C419 Course Name: Design of PSC	C419.3		2	
Sem rr of st Course urse N	C419.4	2		
Col C	C419	2	2	

3.1.3. Program level Course-PO matrix of all courses INCLUDING first year courses (10)

Table 5 shows CO - PO matrix for all the courses including first year course

SI No	Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	18MAT11 (C101)	2	3	-					13				
2	18CHE12 (C102)	3	3						_				2
3	18CPS13 (C103)	3	1										
4	18ELN14 (C104)	3	1.6	2.2									
5	18ME15 (C105)	1.8	1										
6	18CHEL16 (C106)	3	3							2.5	2.5		
7	18CPL17 (C107)	3	1	1	1								
8	18MAT21 (C109)	2	3										
9	18PHY22 (C110)	2	2										

Table 5: Course - PO Matrix - 2018 Batch

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SI No	Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
10	18ELE23 (C111)	3	3	3			3				i a		
11	18CIV24 (C112)	1.8	1										
12	18EGDL25 (C113)	2	1			1.75							1
13	18PHYL26 (C114)	2	2				5			2			
14	18ELEL27 (C115)	3	2.67	2.5						3	3		
15	18MAT31 (C201)	2	3										
16	18CV32 (C202)	3	2								-		
17	18CV33 (C203)	2	2	1						8	1 - 2		
18	18CV34 (C204)	2.67	2.5								5		
19	18CV35 (C205)	3	2										
20	18CV36 (C206)	2	1										
21	18CVL37 (C207)	3	2.33	1		2		5.				64	
22	18CVL38 (C208)	2	2			-							
23	18MAT41 (C210)	2	3										
24	18CV42 (C211)	3	3										2
25	18CV43 (C212)	1.33	1.5	3									
26	18CV44 (C213)	3	2	3						•			
27	18CV45 (C214)	3	2.33			2							
28	18CV46 (C215)	3		2.5									
29	18CVL47 (C216)	2		1					÷				
30	18CVL48 (C217)	1	2	1									

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SI No	Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
31	18CV51 (C301)	2	2	-	-								-
32	18CV52 (C302)	3	2										
33	18CV53 (C303)	3	2	2									
34	· 18CV54 (C304)	2	2	-					~				-
35	18CV55 (C305)	3		3									
36	18CV56 (C306)	3	3	3						1		3	
37	18CVL57 (C307)	3	3									1	
38	18CVL58 (C308)	3	2		1.33		2			1			
39	18CV61 (C310)	3	2	2	-					 			
40	18CV62 (C311)	3	2	2						1			
41	18CV63 (C312)	2	1	1	. 10								
42	18CVL66 (C324)	3	3			2				3			
43	18CVL67 (C325)	3	3		3					3			
44	18CVEP68 (C326)	3	2.8	2								2	
45	18CV71 (C401)	3	3				2			-			
46	18CV72 (C402)	2	3	3									
47	18CVL76 (C416)	3	3			2							
48	18CVL77 (C417)		2		2	2							
49	18CVP78 (C418)	3	3	3	3	3	3	3	3	3	3	3	
50	18CV81 (C419)	2	2	2									
51	18CVP83 (C425)	3	3	3	3	3	3	3	3	3	3	3	

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SI No	Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
52	18CVS84 (C426)	3	3	3	2		2	2	3	3	3		
53	18CVI85 (C427)	3	3	3	3	3				2	2	2	2
	Total	134	114	52.2	18.3	20.8	15	8	9	21.5	16.5	13	5
	of Courses Mapped	52	50	23	8	9	6	3	3	8	6	. 5	3
	otal No. of Courses	53	53	53	53	53	53	53	53	53	53	53	53
	Veighted oping Value	2.57	2.27	2.27	2.29	2.31	2.5	2.67	3	2.69	2.75	2.6	1.67

Table 6 shows CO - PSO matrix for all the courses including first year course

Table 6: Course – PSO Matrix – 2018 Batc
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SI No	Subject Code	PSO1	PSO2	PSO3	PSO4
1	18MAT11 (C101)				<u>.</u>
2	18CHE12 (C102)				
3	18CPS13 (C103)			1	
4	18ELN14 (C104)				2
5	18ME15 (C105)				
6	18CHEL16 (C106)				v
7	18CPL17 (C107)	÷.			
8	18MAT21 (C109)				÷.
9	18PHY22 (C110)				
10	18ELE23 (C111)				
11	18CIV24 (C112)	2		1	Ge
12	18EGDL25 (C113)				

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SI No	Subject Code	PSO1	PSO2	PSO3	PSO4
13	18PHYL26 (C114)			14 	
14	18ELEL27 (C115)	27			
15	18MAT31 (C201)				
16	18CV32 (C202)	3.		2	
17	18CV33 (C203)	1.67	2	1.75	
18	18CV34 (C204)	3		2	
19	18CV35 (C205)	1.75	1	2	
20	18CV36 (C206)	2		1	
21	18CVL37 (C207)		3	2	
22	18CVL38 (C208)		2		
23	18MAT41 (C210)				
24	18CV42 (C211)	3		2	
25	18CV43 (C212)	1.5	1.5	1.5	
26	18CV44 (C213)	3	-	3	
27	18CV45 (C214)	2.67	1	2	
28	18CV46 (C215)	2.5	1	2.33	
29	18CVL47 (C216)	*	1	1	
30	18CVL48 (C217)		2		
31	18CV51 (C301)	2	i.	1	
32	18CV52 (C302)	2		2	
33	18CV53 (C303)	2		3	

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			Instanting of the second states		
Sl No	Subject Code	PSO1	PSO2	PSO3	PSO4
34	18CV54 (C304)	2		2	2 2
35	18CV55 (C305)	2	2	2.6	
36	18CV56 (C306)	3	3	3	
. 37	18CVL57 (C307)	2	2	2	
38	18CVL58 (C308)	2.5	2	1.5	
39	18CV61 (C310)	2		3	
40	18CV62 (C311)	2		2	
41	18CV63 (C312)	2		1	£.
42	18CVL66 (C324)		3	3	
43	18CVL67 (C325)		2	2	2
44	18CVEP68 (C326)	2	2	2	3
45	18CV71 (C401)	2		2.8	- F
46	18CV72 (C402)	2	54. 2	2	
47	18CVL76 (C416)		3	3	
48	18CVL77 (C417)	2		2	
49	18CVP78 (C418)	3	3	3	3
50	18CV81 (C419)	2		2	
51	18CVP83 (C425)	3	3	3	3
52	18CVS84 (C426)	3			
53	18CVI85 (C427)	2.75	2.75	2.75	
	Total	71.34	42.25	74.23	11

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SI No	Subject Code	PSO1	PSO2	PSO3	PSO4
No. of	Courses Mapped	31	20	35	4
Total No. of Courses		53	53	53	53
Weighted Mapping Value		2.30	2.11	2.12	2.75

Table 7 shows CO - PO matrix for all the courses including first year course

SI Subject PO₃ PO5 PO6 PO7 **PO8 PO9 PO12 PO1** PO₂ PO4 PO10 PO11 Code No 17MAT11 2 3 1 (C101) 17CHE12 2 3 3 2 (C102) 17PCD13 3 3 1.5 2.67 2.4 2 1 (C103) 17CED14 4 3 3 3 1 2 1 (C104) 17ELN15 5 3 1.8 2.4 (C105) 17CPL16 3 2.25 3 6 3 (C106) 17CHEL17 7 3 2.5 2.5 3 (C107) 17MAT21 8 2 3 1.75 (C109) 17PHY22 9 3 3 3 2 (C110)17CIV23 10 2 2 (C111) 17EME24 11 2 1 1.75 1 (C112) 17ELE25 12 3 3 3 3 (C113) 17WSL26 13 2 2 (C114) 17PHYL27 2 2 14 2 2 1 (C115) 17MAT31 15 2 3 (C201)

Table 7: Course – PO Matrix – 2017 Batch

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SI No	Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
16	17CV32	3	2		(101101)				SILLESSES	ratiosini	Berniedenie I		
17	(C202) 17CV33	2	2					-					
18	(C203) 17CV34	3	2										
19	(C204) 17CV35	2	1										
20	(C205) 17CV36	3	2.5										
21	(C206) 17CVL37 (C207)	2	2										
22	17CVL38 (C208)	3	3										
23	17MAT41 (C210)	2	3									×	
24	17CV42 (C211)	3	2										
25	17CV43 (C212)	1.33	1.5	3							5		
26	17CV44 (C213)	2	2										
27	17CV45 (C214)	2	2			¹	_						
28	17CV46 (C215)	3	2										
29	17CVL47 (C216)	1	2	1									
30	17CVL48 (C217)	2		1									
31	17CV51 (C301)	3	2	2	8				•				
32	17CV52 (C302)	3	3										
33	17CV53 (C303)	3	2	2									
34	17CV54 (C304)	3	1			2						Ľ	
35	17CVL57 (C313)		2		2	2							
36	17CVL58 (C314)	2	2	2									

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SI No	Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
37	17CV61 (C315)	2	2										
38	17CV62 (C316)	3	2.33	3									
39	17CV63 (C317)	3	3	3								3	
40	17CV64 (C318)	3		2.5	÷		æ					·	
41	17CVL67 (C327)	3				2							
42	17CVL68 (C328)	3	2.8	2								2	
43	17CV71 (C401)	2		3									
44	17CV72 (C402)	2	3	3		2							
45	17CV73 (C403)	2	1.5	1.5									
46	17CVL76 (C412)	2.75	2.75		3					3	_		
47	17CVL77 (C413)	2				2		-					
48	17CVP78 (C414)	3	3	3	3	3	3	3	3	3	3	3	
49	17CV81 (C415)	3	2				2						
50	17CV82 (C416)	2	2	2									
51	17CV84 (C421)	3	3	3	3	3				2	2	2	2
52	17CVP85 (C422)	3.	3	3	3	3	3	- 3	3	3	3	. 3	
53	17CVS86 (C423)	3	3	3	2		2	2	3	3	3		
	Total	131	112	59.4	23	20	13	9	9	17.5	15.5	14.5	12.5
	of Courses Mapped	52	48	24	9	8	5	4	3	7	6	6	8
	tal No. of Courses	53	53	53	53	53	53	53	53	53	53	53	53
	/eighted ping Value	2.51	2.33	2.48	2.56	2.50	2.60	2.25	3.00	2.50	2.58	2.42	1.56

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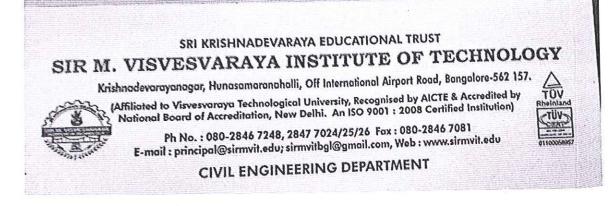


Table 8 shows CO - PSO matrix for all the courses including first year course

SI No	Subject Code	PSO1	PSO2	PSO3	PSO4
1	17MAT11 (C101)		×	*	
2	17CHE12 (C102)				
3	17PCD13 (C103)				(#)
4	17CED14 (C104)				
5	17ELN15 (C105)				
6	17CPL16 (C106)				
7	17CHEL17 (C107)				
8	17MAT21 (C109)				
9	17PHY22 (C110)				
10	17CIV23 (C111)	2		2	
11	17EME24 (C112)				
12	17ELE25 (C113)				
13	17WSL26 (C114)				
14	17PHYL27 (C115)				
15	17MAT31 (C201)				
16	17CV32 (C202)	2		2	
17	17CV33 (C203)	2	1	2	
18	17CV34 (C204)	2		2	

Table 8: Course - PSO Matrix - 2017 Batch

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SI No	Subject Code	PSO1	PSO2	PSO3	PSO4
40	17CV64 (C318)	2.5	1	2.33	
41	17CVL67 (C327)	2	2	1	
42	17CVL68 (C328)	2	2	2	3
43	17CV71 (C401)		2	3	
44	17CV72 (C402)	2		2	
45	17CV73 (C403)	2		1	
46	17CVL76 (C412)		2	2	
47	17CVL77 (C413)	2	2	1	
48	17CVP78 (C414)	3	1.5	1.83	2.16
49	17CV81 (C415)	2		2.8	
50	17CV82 (C416)	2		2	
51	17CV84 (C421)	2.75	2.75	2.75	
52	17CVP85 (C422)	3	3	3 .	3
53	17CVS86 (C423)	3	ы. 		1
	Total	71.75	32.75	71.2	10.16
No. of Courses Mapped		32	16	34	4
	tal No. of Courses	53	53	53	53
*. *.	hted Mapping Value	2.24	2.05	2.09	2.54

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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

CO-PO Attainment 2018 Intake Batch

SL.NO	Subject Code	Course Code	P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
1	18PCD13/23	C113	2.8		2.8									
2	18MAT31	C231	2.8	2.8	2.8									
3	18CS32	C232	2.28		2.28									
4	18CS33	C233	2.5	2	2									
5	18CS34	C234	2.28	1.52										
6	18CS35	C235	2.67		2									
7	18CS36	C236	2.4	1.7										
8	18CSL37	C237	2.2	2.2	2.2		2.2							
9	18CSL38	C238	3	1	2.5									
10	18MAT41	C241	2.8	2.8	2.8									
11	18CS42	C242	3		3		3			3	2	2.33	2.33	2
12	18CS43	C243	3	1.87	1.87									
13	18CS44	C244	1.56	1.3										
14	18CS45	C245	2.8	1.8		1.8								
15	18CS46	C246	1.8											
16	18CSL47	C247	2.5	1	2	2								
17	18CSL48	C248	2.8	2.8	2.8		2.8							

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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

CO-PO Attainment 2018 Intake Batch

SL.NO	Subject Code	Course Code	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
18	18CS51	C351	1.92								1.28	1.28		
19	18CS52	C352	2.6											
20	18CS53	C353	0.96		1.04						1.04			
21	18CS54	C354	0.94	1.04	0.78	0.78								
22	18CS55	C3553	2.8	1.8	1.8									
23	18CS56	C3564	2.28	2.03	2.28									
24	18CSL57	C3565	1.9	1.52			1.52							
25	18CSL58	C357	1.8	1.8	2.8		2.8							
26	181561	C358		2.8	2.41		1.63			1.63	1.63	1.63	1.63	1.63
27	181562	C361	3		3									
28	18CS63	C362	1.56	1.56	1.56									
29	18CS64x	C363	1.8											
30	18ISL66	C364	1.52	2.28			2.28							
31	18ISL67	C3653	2.67	2.33	1.67	1.33	2.5		2					
32	18CSMP68	C368	2.04	2.04	2.04									
33	18CS71	C367	3		1	2.5								
34	18CS72	C368	2.8	1.87	1.87	1.87	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93

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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

CO-PO Attainment 2018 Intake Batch

SL.NO	Subject Code	Course Code	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
35	18CS73x	C471	1.56	1.04										
36	18CS74x	C472	2	3	2.33									
37	18CSL76	C473	1.74	0.69	1.39									
38	18CSP77	C4744	2.8											
39	18CS81	C4753	2.08	2.18										
40	18CS82x	C476	3	3	1	1								
41	18CSP83	C477	3	3	3	2	2				1	1	1	1
42	18CSS84	C478	2.64	2.64	2.64	2.64	2.64	1.76	2.64	2.2	2.64	2.64	2.64	1.76
43	18CSI85	C481	3	2	2	1	2	1	1	1	1	1	1	1

MALASHRI S Staff Name

100

Subject Code

18MAT31

Subject Name CALCULUS, FOURIER SERIES & NUMERICAL

Targets and Level									
Target Value Leve									
60%	60% and Above	60.0	3						
55%	Between 50% to 59%	55.0	2						
50%	Below 50%	50.0	1						

Semester Academic Year Class Strength

Maximum Marks

		_				
o 59%	55.0	2	C201.2	64.86	- 3	32
6	50.0	1	C201.3	93.33	3	32
			C201.4	94.63	3	32
	I	11	C201.5	86.74	3	32
	201	9-20				
	- 5	4				

Test A	ttainmen	t Level	Universit	y Attained	Sur	Attain	
Co's	% Attained	Level	% Attained	Level	% Attained	Level	ent
C201.1	87.07	· 3	32.00	1	68.08	3	1.86
C201.2	64.86	- 3	32.00	1	77.31	3	2.96
C201.3	93.33	3	32.00	1	67.69	3	2.96
C201.4	94.63	3	32.00	1	73.08	3′	1.86
C201.5	86.74	3	32.00	1	72.69	· 3	2.96

BRANCH INCE B' III Sem (ODC) AY .- 2019-20

Weightag	e
Test %	18%
University %	72%
Survey %	10%

	CON	TRIBUTION	TO PRO	GRAMME	OUTCON	1ES (PO's) AND PR	OGRAM S	PECFIC O	JTCOMES (PSO's) fo	r Intake Y	'ear 20V1	for Acad	emic Year	2018-19		
	CO's		d.	Program Outcomes Program Specific Outcome												ome		
			PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
C201.1	Mappi	ing	1	2						•								
	Attainment	1.86	0.62	1.24			·	•							•			
C201.2	Mappi	ing	2	1	· ·	×							•					
C201.2	Attainment	2.96	1.97	0.99		•												
C201.3	Mappi	ing	3	1 .							•							
	Attainment	2.96	2.96	0.99	•.						•	•						
C201.4	Mappi	ing .	1	2														
	Attainment	1.86	0.62	1.24														
C201.5	Mappi	ing	3	. 3						•						· ·		· ·
	Attainment	2.96	2.96	2.96														· · · · ·
	C101 .		1.83	1.48		•		•				•						× .

[MALASHATS] Listad of the Dapit Marking Outlooman (19:1-19:59 Sidkollobad and 25:45)

Dr. S. K. Uma Professor and Head Department of Mathematics Sir M Visvesvaraya Institute of Technology Bengaluru-562157

III semester TE

Staff Name

Targets and Level

Maximum Marks

UMAS

Subject Code 18MAT31

Subject Name

FI

Transforms, Calculus ,Fourier Series and Numerical Techniques

Target			Value	Level
60%	60% and Ab	60.0	3	
55%	Between 50	% to 59%	55.0	2
50%	Below 50%		50.0	1
Semester			3 TE	
Academic	Year		2019-20	
Class Strer	ngth		48	

100

l est Attainm			Universi tv		Survey	Attainm ent	
Co's	% Attained	Level	% Attained	Level	% Attained	Level	
C301.1	58.50	2	91.00	3	67.78	3	2.82
C301.2	52.59	2	91.00	3	77.04	3	2.82
C301.3	61.70	3	91.00	3	67.41	3	3.00
C301.4	73.26	3	91.00	3	72.96	3	3.00
C301.5	67.01	3	91.00	3	72.59	3	3.00

Weightage	
Test %	18%
University %	72%
Survey %	10%

CONTRIB	UTION TO PRO	GRAMME	OUTCON	IES (PO's)	AND PR	OGRAM S	PECFIC OU	JTCOMES	(PSO's) fo	or Intake Y	'ear 2018	for Acade	mic Year 2	2019-20				
CO's				n Outcom											Program	Specific (l Outcome	
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3	PSO4
C301.1	Map	oing	2	3										1011		F302	1303	P304
	Attainment	2.82	1.88	2.82				,										
C301.2	Mapp	oing	2	3														
	Attainment	2.82	1.88	2.82				. 1										
C301.3	Марр	ing	2	3														
0.001.5	Attainment	3.00	2.00	3.00														
C301.4	Mapp	ing	. 2	3														
0301.4	Attainment	3.00	2.00	3.00														
C301.5	Mappi	ing	· 2	3														
	Attainment	3.00	2.00	3.00														
	C301		1.95	2.93														

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Dr. S. K. Uma Professor and Head Department of Mathematics Sir M Visvesvaraya Institute of Technology Bengaluru-562157

Bromch Ricch A' II Sem (00D) (154-2019-20

Staff Name CHETANA M B

Targets and Level									
	Target	Value	Level						
50%	50% and Above	30.0	3						
45%	Between 40% to 49%	27.0	2.						
40%	Below 40%	24.0	1						

Semester	3
Academic Year	2019-20
Class Strength	51
Maximum Marks	60

	Subjec	t Code	1	BMAT31 (/) Subject Name			CALCULUS, FOURIER SERIES AND NUMERIC			
Test A	ttainmen	t Level	Universit	versity Attained Sur		vey					
Co's	% . Attained	Level	% Attained	Level	% . Attained	Level	Attainm ent		Weightag	e	
C231.1	79.25	3	29.08	2	70.00	3	2.28		Test %	18%	
C231.2	80.79	3	29.08	2	90.00	3	2.28		University %	72%	
C231.3	96.00	3	29.08	2	90.00	3	2.28		Survey %	10%	
C231.4	90.97	3	29.08	2	70.00	3	2.28				
C231.5	82.71	3	29.08	2	50.00	1	2.08				

Weightag	Weightage						
Test %	18%						
University %	72%						
Survey %	10%						

	CONT	DIDUTION							1 A 1										
	CON	RIBUTIO	TOPRO	GRAMME	OUTCON	AES (PO's) AND PR	OGRAMS	SPECFIC O	UTCOMES (PSO's) for	r Intake Y	'ea r 2018	for Acade	emic Year	2019-20			
CO's			Program Outcomes													Program Specific Outcome			
			P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4	
c231.1	Mapping		2	3															
	Attainment	2.28	1.52	2.28															
C231.2	Mapping		2	3															
	Attainment	2.28	1.52	2.28															
C231.3	Mapping		2 .	3			S. Standing												
	Attainment	2.28	1.52	2.28							-								
C231.4	Mapping		2	3															
	Attainment	2.28	1.52	2.28															
C231.5	Mapping		2	3 .															
	Attainment	2.08	1.39	2.08															
C231 ·			1.49	2.24															

lead of the Department, Dept. of Mathematics, Sir MVIT. Bangalore-662157.

Dr. S. K. Uma Professor and Head Department of Mathematics Sir M Visvesvaraya Institute of Technology Bengaluru-562157

BRANCH: EE E III Sem (ODD) AY- 5, 19-20 18 Brits

Staff Name CHETANA M B

Targets and Level										
	Target	Value	Level							
60%	60% and Above	60.0	3							
55%	Between 50% to 59%	55.0	2							
50%	Below 50%	50.0	1							

Semester	3
Academic Year	2019-20
Class Strength	48
Maximum Marks	100

	Subjec	t Code	18	BMAT31 (Subject Name			
Test A	ttainmen	t Level	Universit	y Attained	Sur			
Co's	% Level		% Attained	lovel		Level	Attainm ent	
C231.1	85.87	3	64.85	3	90.00	3	3.00	
C231.2	83.38	3	64.85	3	70.00	3	3.00	
C231.3	87.60	3	64.85	3	70.00	3	3.Ó0	
C231.4	92.71	3	64.85	3	90.00	3	3.00	
C231.5	86.64	3	64.85	3	50.00	1	2.80	

CALCULUS, FOURIER SERIES AND NUMERIC												
n	Weightag	e										
	Test %	18%										
	University %	72%										
	Survey %	10%										

	CONT	RIBUTION	TO PROC	GRAMME	OUTCOM	ES (PO's)	AND PRO	OGRAM SI	PECFIC OU	TCOMES (P	SO's) for	Intake Ye	oar 2018 f	or Acade	mic Voor 7	010 20		
CO's								ific Outer	me									
				PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	Program Specific Outcome			
C231.1	Mapping		2	3.										1012	PSO1	PSO2	PSO3	PSO4
	Attainment	3.00	2.00	3.00														
C231.2	Mapping		2	3														
	Attainment	3.00	2.00	3.00														
C231.3	Mapping		2	3			-											
	Attainment	3.00	2.00	3.00	-		2											
C231.4	Mapping		2	3	1													
	Attainment	3.00	2.00	3.00														
C231.5	Mapping		2	3														
	Attainment	2.80	1.87	2.80														
C231		1.97	2.96										•••					

Nead of the Department, Dept. of Mathematics, Sk MVIT, Bangalore-562157,

Dr. S. K. Urha **Professor and Head Department of Mathematics** Sir M Visvesvaraya Institute of Technology Bengaluru-562157

Staff Name СТҮ

I-SEPA-EC A Sec. Subject Code 18MAT11 (A)

(Subject Name

Calculus & Linear Algebra

Targets and Level									
	Target	Value	Level						
60%	60% and Above	36.0	3						
55%	Between 50% to 59%	33.0	2						
50%	Below 50%	30.0	1						

Semester	1
Academic Year	2019-20
Class Strength	63
Maximum Marks	60

Mapping

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Test A	ttainmen	t Level	Universit	y Attained	Sur	Attainm	
Co's	% Attained	Level	% Attained	Level	% Attained	1 evel	
C101.1	94.99	3	42.50	3	88.10	3	3.00
C101.2	.78.84	3	42.50	3	89.05	3	3.00
C101.3	86.56	3	42.50	3	88.73	3	3.00
C101.4	87.67	3	42.50	3	88.41	3	3.00
C101.5 95.05		3	42.50	3	89.05	3	3.00

Weightage								
Test %	18%							
University %	72%							
Survey %	10%							

	CON	TRIBUTIO	N TO PRO	GRAMME	OUTCOM	AES (PO's) AND PR	OGRAM S	PECFIC OL	JTCOMES (PSO's) fo	r Intake Y	ear 2010	for Acade	mic Year	2019-20		-	
	CO's			-			Program Outcomes									Program Specific Outcome			
			· PO1	01 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12												PSO4			
C101.1	Марр	ing	2	3										2	3	3	1303	P304	
	Attainment	3.00	2.00	3.00										2.00	3.00	3.00			
	Mapping		2	3										1	3	3			
C101.2	Attainment	3.00	2.00	3.00			·							1.00	3.00	3.00			
	Mapping		2	3															
C101.3														2	3	3			
	Attainment	3.00	2.00	3.00										2.00	3.00	3.00			

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Dr. S. K. Uma Professor and Head Department of Mathematics Sir M Visvesvaraya Institute of Technol

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1

Staff Name ARAVIND P N

> **Targets and Level** Target Value Level 60% 60% and Above 60.0 3 Setween 50% to 59% 55% 55.0 2 50% Below 50% 50.0 1

Subject Name . Test Attainment Level University Attained Survey Attainm % % % ent Co's Level Level Level Attained Attained Attained C101.1 | 77.00 З 97.00 70.00 3 3 3.00 C101.2 76.00 З 97.00 3 50.00 1 2.80 2.82 C101.3 55.00 Ζ 97.00 3 90.00 3 C101.4 66.00 3 97.00 3 90.00 3 3.00 88.00 97.00 70.00 C101.5 3 3 3 3.00

18MAT11(H)

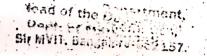
I SEM 'H' SECTION Subject Code

Weightag	e
Test ½	18%
University %	72%
Survey %	10%

Semester	1 H
Academic Year	2019-20
Class Strength	31
Maximum Marks	100

	CON	TRIBUTIO	N TO PRO	GRAMME	OUTCON	NES (PO's) AND PR	OGRAM S	PECFIC O	UTCOMES ((PSO's) fo	r Intake Y	'ear 2019	for Acade	emic Year	2019-20				
	CO's			Program Outcomes												Program Specific Outcome				
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4		
	ing	2	3			Sec.	<u> </u>													
	Attainment	3.00	2.00	3.00							•									
C101.2 Mapping Attainment 2.80	2	3				ъ.,							,							
	Attainment	2.80	1.87	2.80												· ·				
	Mapping		2	3																
C101.3	Attainment	2.82	1.88	2.82	•		•	•	•	-										
C101.4	Mappi	ing	2	3.				· .										D3 PSO4		
C101.4	Attainment	3.00	2.00	3.00					•											
	Mappi	ing	2	3	•	54 -						•						•		
	C101.5 Mappin Attainment	3.00	.2.00	3.00				:			•									
	C101		1.95	2.92							• . •				•			6		
	•			•			·· ·	·	-		· · · · ·									

(ARAVIND PM)



Professor and Head Department of Mathematics Sir M Visvesvaraya Institute of Technology Bengaluru-562157

Dr. S. K. Uma 🛁

Staff Name Vani Harave

Subject Code

20MCA11 (A)

Subject Name

Data Structures with Algorithms

	Targets and Level		
	Target	Value	Leve
40%	40% and Above	24.0	3
35%	Between 30% to 39%	21.0	2
30%	Below 30%	18.0	1

Test A	ttainment	Level	University	Attained	Surv	rey	Attainm
Co's	% Attained	Level	% Attained	Level	% Attained	Level	ent
C101.1	86.67	3	27.81	3	82.76	3	3.00
C101.2	90.08	3	27.81	3	82.41	3	3.00
C101.3	95.32	3	27.81	3	81.72	3	3.00
C101.4	92.14	3	27.81	3	79.66	3	3.00
C101.5	98.25	3	27.81	3	77.93	3	3.00

Weightag	e
Test %	18%
University %	72%
Survey %	10%

Semester	1
Academic Year	2020-21
Class Strength	58
Maximum Marks	60

	CONTR	IBUTION T	O PROGR	AMME O	UTCOMES	(PO's) A	ND PROG	RAM SPE	CFIC OUTC	OMES (PS	iO's) for I	ntake Yea	ir 2020 fo	r Academ	ic Year 20	20-21				
CO's		_	Program Outcomes													Program Specific Outcome				
CO's			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4		
C101.1 -	Mappin	g	3			41									2	1				
	Attainment	3.00	3.00												2.00	1.00				
C101.2 -	Mapping				3									_	1	2				
	Attainment	3.00			3.00							_			1.00	2.00		_		
	Mapping			2	_										1	1				
C101.3	Attainment	3.00		2.00											1.00	1.00				
	Mapping				3				2				1			1		_		
C101.4	Attainment	3.00			3.00				2.00				1.00			1.00	_			
	Mapping				3		2						1		1	1				
C101.5	Attainment	3.00			3.00	-	2.00					×	1.00			1.00				
	C101		3.00	2.00	3.00		2.00		2.00				1.00		1.33	1.20				

AASTER OF COMPUTER APPLICATIONS MASTER OF COMPUTER APPLICATIONS Munasamaranabalii. Bangalore-562 157

Course: Engineering Physics

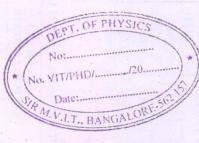
Course Code: 18PHY 12/22

Course Outcomes

1 :. (NAAC-2.6

Upon Completion of this course the students will be able to

- 1. Remember the various types of oscillations and understand their implications in various domains and also interpret the role of shock waves and its applications.
- 2. Recognize the importance of elastic properties of materials and apply them in engineering applications.
- 3. Realize the interrelation between time varying electric and magnetic fields, concept of transvers nature of EM waves and their role in optical fiber communication with the basic understanding of ray optics and types of optical fibers.
- 4. Compute Eigen values, Eigen functions of atomic and subatomic particles using time independent 1-D Schrodinger's wave equation.
- 5. Apprehend theoretical background of laser, construction and working of different types of laser and its applications in different fields
- 6. Understand the electrical and thermal properties of materials like conductors, semiconductors and dielectrics using the theoretical models



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Department of Physics M. Visvesvaraya Institute of Techno Bangalore - 562 157.

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 ' 60% and Above
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 Below 50%
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 2019-20

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 CONTRIBUTION TO PROGRAMME OUTCOMES (PO's) for Intake Year 2010 for Academic Year 2019-20

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 Test Atta Co's Subject Code Level 43.94 3 43.94 3 43.94 3 43.94 3 43.94 3 43.94 3 Attained 43.94 University 1271722 (A) Level Attained × Survey Mart Level Subject Name ^{3,1}, 2.80 2.80 2.80 2.80 2.80 - 2.80 Cir.M. Visvesvaraya Institute of Ter-Engineering Physics
 Test %
 18%

 University %
 72%

 Survey %
 10%
 . HEAD Weightage Janharen 学家 I Six, EC A-S AY: 2019-20