<u>Criterion 1 – Curricular Aspects (100)</u> Key Indicator – 1.1 Curricular Planning and Implementation (20)

	Key Indicator – 1.1 Curricular Planning and Implementation	<u>,</u>
Metric No.		Weightag
1.1.1	The institution ensures effective curriculum delivery through a well-	e 10
	planned and documented process	
	Sapthagiri College of Engineering is an affiliated institution under	
	Visvesvaraya Technological University (VTU) and follows the scheme and	
	syllabus prescribed by the university. University offers 68 courses per	
	semester per program. Faculty members give feedback about the syllabus in	
	the Board of Studies meetings conducted by the university. However the	
	curriculum is prepared by the institution in line with institution's vision and	
	mission.	
	Curriculum Planning:	
	✤ TheCollege Council which comprises the Principal and all Heads of the	
	departments meet regularly to discuss the University related activities and	
	academic related issues of the institution. Principal issues a circular to the	
	IQAC to prepare the perspective Plan of the College for the upcoming	
	Academic year.	
	 Before the commencement of the academic year, the IQAC sends a notice 	
	to all Heads of the Departments to prepare and submit timetable, SPP,	
	Budget requirement, Workload and teacher requirement, Curriculum plan,	
	deployment strategy and curriculum delivery tools, Bridge course/	
	certification course planned for next academic year to IQAC for approval	
	and adoption.	
	✤ IQAC also sends a circular to all Committees, cells and clubs asking	
	them to prepare and submit their perspective plan and plan of action to	
	IQAC. The HODs will send a notice on the same or next working day and	
	convene a meeting for brainstorming and the preparation of the same.	
	Departments meet and prepare all the items asked by the IQAC and	
	submit the same to the IQAC for approval. HOD allocates the subjects to	
	all the faculty members based on their choice of expertise and experience.	
	Faculty members prepare a well-structured course plan in line with	
	college calendar of events, university syllabus and class time table.	

Additional / Tutorial classes are planned in timetable for difficult courses.

Various committees/Cells/Associations prepare their SPP and budget and submit the same to the IQAC for approval. IQAC prepare a consolidated college Perspective plan and submit the same to Governing council for the approval through GC meeting proceedings.

Curriculum Implementation:

The planned curriculum is delivered to the students through

- Chalk and talk
- Power point presentations
- Illustrative models
- ICT tools like NPTEL Videos
- ✤ Case studies,
- Role plays
- Conducting guest lectures
- invited talks and workshops
- Industrial visits
- Project work Internships
- Peer Teaching and Peer Learning.

SCE has 44 ICT enabled class rooms and 4 smart class rooms. As part of the curriculum, cross cutting issues like Gender Sensitization, Environment and Sustainability, Professional ethics and Human values are covered. The curriculum gaps bridged through delivery in the form of content beyond Syllabus through Guest Lectures, Workshops and Certification courses. Curriculum delivery also happens through various activities outside the four walls of the classroom through Cells and Clubs.

Curriculum Delivery Review:

- The effectiveness of planned curriculum implementation is reviewed by HODs in regular review meetings and IQAC in every semester.
- IQAC also conduct audit to review the effectiveness of strategic perspective plan of the previous academic year in the starting of the current academic year

Performance evaluation of students:

> Students' performance is evaluated through Formative and Summative

	Assessments (CIE & SEE).			
	File Description	Document		
	Files	Index		
	Additional information	Weblink sample		
.1.2 The	institution adheres to the academic	calendar including the con	duct of CIE	5
Sap	thagiri College of Engineering	is affiliated to the	Visvesvaraya	
Tec	hnological University and college	calendar of events is prep	pared in line	
wit	h the university calendar of events	by including weekly work	ing days and	
hol	idays, government holidays, inter	nal assessment dates, pra	actical exam	
date	es, workshops schedule, technical s	eminars schedule, industria	al visit dates,	
PTI	M schedule, sports day, cultural da	y, graduation day, last wo	orking day of	
the	semester and get approved in C	Soverning council meeting	g. Approved	
cale	endar of events is circulated to all the	ne staff & students and also	o uploaded in	
the	college website for information &	compliance.		
The	e academic calendar of the institut	e is planned well in advar	nce based on	
the	calendar provided by the univers	sity and the same is displ	layed on the	
not	ice boards for the benefit of the s	students. Lesson plans and	d Class time	
tab	e are then prepared based on the a	cademic calendar and distr	ributed to the	
stuc	lents through e - mail / Whatsapp	group. The Strategic Persp	pective Plans	
pre	pared by the Departments and the C	Clubs and Cells are also in s	sync with the	
Uni	versity Calendar of events. This	also takes care of curric	culum plans,	
acti	vities like internship, industrial vis	sits, community activities	by Cells and	
Clu	bs, besides Continuous Interna	al Evaluation strategies	like tests,	
assi	gnments, quiz, presentations etc.			
Exa	mination Cell convener issues a	a circular to all IA Coc	ordinators of	
diff	erent departments to prepare the I	A timetable 10 days in ad	vance to the	
IA	test as per the scheduled dates i	n COE and the same is	notified and	
circ	ulated to students and staffs. Com	mon date and time are foll	owed for the	
cou	rses common to all branches. CI	E includes Tests, homewo	ork, problem	
solv	ving, Group discussion, quiz and se	minars throughout the sem	ester.	
	• The first internal assessment te	st of semester is generally	scheduled in	

	fifth week after the commencement of semester.	
	• Three internal test each consisting of three days, and students will	
	have to take two tests per day.	
	• Internal assessment test for Practical subjects also will be intimated in	
	the Academic calendar at the end of semester.	
	• Before starting of each internal assessment test, assignments are given	
	to the students for each subject which includes homework, problem	
	solving, Group discussion and quiz.	
	 Seminars are carried out by the students on particular topic in a 	
	subject during the respective subject hour.	
	attendance is done as per the calendar of events;	
	The laboratory Schedule is prepared by the concerned faculty and batch-wise	
	details are specified in laboratory schedule. Time Table of regular lectures for	
	the semester is prepared as well and displayed on the notice board and	
	website. There is an academic monitoring committee appointed by the	
	Principal/HOD who monitors the day- to- day conduct of the lectures based	
	on the time table.	
	File Description Document	
1.1.3	CIE related files View Document Teachers of the Institution participate in following activities related to	
	 curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years 1. Academic council / BoS of Affiliating university 2. Setting of question papers for UG/PG programs 2. Design and Development of Curriculum for Add on (cortificate) 	
	3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses	
	4. Assessment /evaluation process of the affiliating University	
	Ontions	
	Options	
	1. All of the above	
	 All of the above Any 3 of the above Any 2 of the above 	
	 All of the above Any 3 of the above Any 2 of the above Any 1 of the above 	
	 All of the above Any 3 of the above Any 2 of the above 	
	 All of the above Any 3 of the above Any 2 of the above Any 1 of the above None of the above 	

Data template as per DVV	View Document	
List of faculties involving in university	View Document	
activities		
Additional Informatiion	View Document	

1.2 Academic Flexibility (30)

Metric No.					•)	Weightage
1.2.1	(CBCS)/Elective Response : 1009	e course system	n has been im	plemented	l Credit System	10
	Response: 09					
	For	mula: Total n	of Programmes in ve course system in umber of Programm ge =(09/09)x10	nplemented nes offered	X 100	
	File Descriptio				Document	
1.2.2	Name of the pr Number of Add years				<u>View Details</u> ng the last five	10
	Response : 54 1.2.2.1: How ma last 5 years Response : 54	any Add on /C	ertificate prog	rams are a	dded within the	
	2018-19	2017-18	2016-17	2015-1	6 2014-15	
	15	12	11	9	7	
	File Description	ification/ Add o	on programs off	fered	Document View Document	
	Supporting Do	ocuments			View Document	

1.2.3.1. Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years	2.3.1. Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years 2018-19 2017-18 2016-17 2015-16 2014-15 1917 1434 1474 1107 646 Esponse : 6578 Total number of students enrolled in certificate / Add -on programs X 100 2018-19 2017-18 2016-17 2015-16 2014-15 67.66% 53.32% 53.17% 43.42% 27.6% Supercentage per year	years	,			
1917143414741107646Response : 6578Total number of students enrolled in certificate / Add -on programsPercentage per year = Total number of students across all the programsX 1002018-192017-182016-172015-162014-15	1917 1434 1474 1107 646 Esponse : 6578 Total number of students enrolled in certificate / Add -on programs rcentage per year = $\frac{1}{\text{Total number of students across all the programs}} X 100$ 2018-19 2017-18 2016-17 2015-16 2014-15 67.66% 53.32% 53.17% 43.42% 27.6%		er of students er	•		rtificate or
Response : 6578Total number of students enrolled in certificate / Add -on programsPercentage per year = $\frac{1}{\text{Total number of students across all the programs}} X 100$ 2018-192017-182016-172015-162014-15	esponse : 6578 Total number of students enrolled in certificate / Add -on programs Treentage per year = $\frac{1}{Total number of students across all the programs} X 100$ 2018-19 2017-18 2016-17 2015-16 2014-15 67.66% 53.32% 53.17% 43.42% 27.6%	2018-19	2017-18	2016-17	2015-16	2014-15
Total number of students enrolled in certificate / Add -on programsPercentage per year = $\frac{1}{\text{Total number of students across all the programs}} X 100$ 2018-192017-182016-172015-162014-15	Total number of students enrolled in certificate / Add -on programsTotal number of students across all the programs2018-192017-182016-172015-162014-1567.66%53.32%53.17%43.42%27.6% \sum Percentage per year	1917	1434	1474	1107	646
67.66% 53.32% 53.17% 43.42% 27.6%	\sum Percentage per year	2010-1/	<u> </u>		2010-10	2017-10
	rerage percentage = $\frac{\sum Percentage \ per \ year}{5}$	67.66%	53.32%	53.17%	43.42%	27.6%
Average percentage = 5	verage Percentage = 50%					

1.3 Curriculum Enrichment (30)

Metric No.		Weightage
1.3.1	Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum	10
	Sapthagiri College of Engineering strongly believes in integrating cross cutting issues relevant to professional ethics, gender, human values, environment and sustainability with a view to ensure holistic development of the students. The students of Sapthagiri College of Engineering trained to be empowered professionals and contribute to the economic and technological	

development of the nation along with integration of human values, Professional Ethics, Environment Sustainability and gender equity to become a good citizen of the nation.

The efforts made by the Institution to integrate the cross cutting issues are:

Human Values and Professional Ethics

Environment Sustainability

Gender Sensitization

Human Values and Professional Ethics:

To understand the moral values and Professional Ethics that ought to guide the Management profession to resolve the moral issues in the profession, the college has made effortstowards developing value based education to technical engineers with a vision to promote values to be a better citizen. The university has prescribed two courses for all engineering programs relevant to human values and professional ethics, in the first and second year of B.E.

- 1. Constitution of India and Professional Ethics(15CIP18/28)
- 2. Constitution of India, Professional Ethics and human rights(17CPH39)

Environment Sustainability:

It is essential to create awareness among the students regarding the need to protecting environments and a way of keeping the delicate ecosystems of our planet in balance. The university has prescribed a mandatory and non-core mandatory environmental courses in first year.

1.Environmental Science (15CIV18/28)

The university has also prescribed a mandatory and non-core mandatory environmental courses for all engineering program address this issues in the curriculum for higher semesters

Table:Cross cutting issue addressed by mandatory and non-coremandatoryenvironmental subjects in the curriculumfor higher semesters.

Sl.No.	Mandatory Courses	Subject Code	Non-core mandatory	Subject code
			courses	
1	Environmental Science	15CIV18/28	Environmental Biotechnology	15BT833
2	Municipal And Industrial Waste Water Engineering	15CV71	Biotechnology for sustainable Environment	15BT563

3	Engineering Geology	15CV35	Solid Waste Management	15CV651
4	Water supply and treatment engineering	15CV64	Water resources management	15CV661

The college also addresses these issues through the cells and clubs such as HASIRIU-ECO club, and NSS which integrates these values.

The HASIRU- ECO Club organized events such as Best out of waste, precautions and awareness on global warming, Environmental pollution& its ill effects, World Food Day and Traffic awareness programme, to enlighten students with different issues and its effects on environment.

The NSS team organised many environmental and health care activities like Swatch Bharat Abhiyan, World Water Day, Health Camps and Exhibition, Healthy India, and a mega Voluntary Blood Donation Camp to address the issues related to human values and environmental sustainability.

Gender Sensitization:

Gender sensitization includes a positive and gender-intelligent organizational culture, growth and progress of women leaders. The importance of gender equity is integrated through women empowerment cell and Equal Opportunities Committee in the curriculum.

SAMARTHINI-Women Empowerment Cell of the institution organised events such as "Awareness program for female students and faculty", "Treating women with dignity", "Create awareness among students and staff about the need for women empowerment", Self Defense Program and motivational programs such as "Be a Role Model - No Gender Discrimination and not to be Sexual Pervert".

To address the gender equality, SAPTHA-SAMATHA- Equal Opportunities Committee - of the institution conducted many of community activities such as Awareness on Usage of Internet "ANTHARAJALA", "Awareness Program on Children Safety", and "Awareness Program on Women Hygiene". The outcome of this is to make the young boys and girls gender

	File Descrip	otion			Doc	ument	
	Additional I	nformation			Viev	v Details	
.3.2	Average percent through proj Response: 63	ect work/fi		-		0	10
	1.3.2.1: Num project work	ber of cour		-		0 0	
	Response: 13	69					
	Data Require	ment for las of the Cour	•	(As per Data	(Template)		
	• Details			g through pro	ject work/fie	ld	
		of the Prog	ramme				
	i ormula.	Nun	learning ti	es that includ hrough projec	t work	1	
	Percentage Per	Year =	/field Number of co	work/interns ourses in all P	ship rogrammes	– X 100	
	Academic year	2018-19	2017-18	2016-17	2015-16	2014-15	
	Percentage per year	62%	61%	63.6%	64.5%	64%	
	Average perce	entage = $\frac{\sum P}{\sum P}$	ercentage pe	er year			
	= 63.0	U	5				
	File Descrip	otion			Docume	ent	
	Additional I	nformation			View DV View In		
.3.3	Supporting I Percentage of		undortaling	nnoiset we	View de		10
	internships (]					K/	10
	Response: 100)%					
	1.3.3.1. Numl internships	ber of stude	ents underta	king projec	t work/field	work /	
	moormonips						

Number of students undertaking project /field work / internships	work
Total number of students Percentage= (661/661)x100=100%	~ 100
File Description	Document
DUU Templete	View Template
DVV Template	view remplate

Key Indicator- 1.4 Feedback System (20)

Metric		Weightage
<u>No.</u> 1.4.1	Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni	10
	 Options: A. All of the above B. Any 3 of the above C. Any 2 of the above D. Any 1 of the above E. None of the above F. Response : A. All of the above (Students, teachers, Employers and Alumni.) 	1
	File Description Document	
	Feedback Collected Details View Details	
1.4.2	 Feedback process of the Institution may be classified as follows: Options: A. Feedback collected, analyzed and action taken and feedback available on website B. Feedback collected, analysed and action has been taken C. Feedback collected and analysed D. Feedback collected E. Feedback not collected F. Response : A. Feedback collected, analysed and action taken and feedback are feedback available on website 	nd
	File Description Document Feedback Analysis & Action taken report View Details	