

Yearly Status Report - 2017-2018

Part A						
Data of the Institution						
1. Name of the Institution	UNIVERSITY COLLEGE OF SCIENCE					
Name of the head of the Institution	Prof. Eshwar H Y					
Designation	Principal(in-charge)					
Does the Institution function from own campus	Yes					
Phone no/Alternate Phone no.	08162260220					
Mobile no.	9886465964					
Registered Email	principalucst@gmail.com					
Alternate Email	iqacucs@gmail.com					
Address	University College of Science B. H. Road					
City/Town	Tumakuru					
State/UT	Karnataka					
Pincode	572103					

Affiliated / Constitu	ent		Constituent			
Type of Institution			Co-education			
Location			Urban			
Financial Status			state			
Name of the IQAC	co-ordinator/Directo	or	Mukundappa B	L		
Phone no/Alternate	Phone no.		08162260220			
Mobile no.			9844321868			
Registered Email			principalucs	t@gmail.com		
Alternate Email			iqacucs@gmai	l.com		
3. Website Addre	ss AR: (Previous Acad	emic Year)	—	<u>cst.ac.in/wp/w</u> /UCST-AQAR-201		
I. Whether Acade he year	emic Calendar pre	pared during	No			
5. Accrediation D	etails		<u>.</u>			
Cvcle	Grade	CGPA	Year of	Validity		
Cycle Grade CGPA			Accrediation	Period From	Period To	
- ,		1				
3	B+	2.66	2019	08-Feb-2019	07-Feb-2024	
3		2.66	2019 07-Jun-2004	08-Feb-2019	07-Feb-2024	
3 5. Date of Establis				08-Feb-2019	07-Feb-2024	
3 5. Date of Establis	shment of IQAC	em	07-Jun-2004		07-Feb-2024	
3 5. Date of Establis 7. Internal Quality Item /Title of the	shment of IQAC	em s by IQAC during t				
3 5. Date of Establis 7. Internal Quality Item /Title of the	shment of IQAC Assurance Syste Quality initiatives quality initiative by	em s by IQAC during t Date &	07-Jun-2004	ng quality culture Number of participa		
3 6. Date of Establis 7. Internal Quality Item /Title of the	shment of IQAC Assurance Syste Quality initiatives quality initiative by AC No 1	em s by IQAC during t Date & Data Entered/	07-Jun-2004	ng quality culture Number of particip		

8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

nstitution/Departmen Scheme Funding t/Faculty		g Agency	Year of award with duration	Amount	
University College of Science	CPE	CPE U		2016 1800	10000000
Department of Environmental Science-PG, UCS, Tumkur	research grant	CEFIPRA		2017 730	6340000
University Research grant Tu			kur ersity	2017 180	120000
-	on of IQAC as per la	test	Yes		
IAAC guidelines:		test		Link	
IAAC guidelines:			Yes View 4	Link	
JAAC guidelines: Upload latest notificatio	n of formation of IQAC		View	Link	
IAAC guidelines: Jpload latest notificatio 10. Number of IQAC ear : The minutes of IQAC m ecisions have been up	n of formation of IQAC	g the s to the	View	Link	
IAAC guidelines: Upload latest notificatio 10. Number of IQAC in rear : The minutes of IQAC milecisions have been uployed	n of formation of IQAC meetings held during neeting and compliance	g the s to the nal	View 4 No	Link	

12. Significant contributions made by IQAC during the current year(maximum five bullets)

1. Conducted the Bridge Course for the freshers 2. Enhancement in the research activity by undertaking projects funded by various funding agencies 3. Enhance ICT facilities 4. Canteen facility to staff and students 5. Strengthening of career guidance and placement cell 6. Under the UGCCPE grant the institution has strengthen the laboratories and conducted various skill development workshops. 7. Several faculty members have obtained the Ph.D guideship

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
promoting research activities among	Able to publish seventy papers in
teachers and students	journals of national and International
	repute
No Files N	Uploaded !!!
14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2018
Date of Submission	18-Jul-2018
17. Does the Institution have Management Information System ?	No

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The curriculum prescribed by the Tumkur University for the Science Undergraduate Programs is adopted in the institution. The institution has wellstructured plan to ensure effective implementation of the curriculum and is accomplished through various customs Before the commencement of each semester meeting of all teaching staff members with principal is held to receive active inputs and to arrive at consensus for the effective implementation curriculum. The institution adopts method to conduct Head of the department meetings in every subject twice in a month. In the first meeting of the each semester the action plan is prepared in an optimal and effective way to ensure curriculum delivery. The institution follows the scheduled academic calendar notified by the Tumkur University for each semester. The necessary requirements are made at the department level to impart curriculum as per the action plans formed. The institution organizes bridge course at the beginning of academic year for all newly admitted students to brief and to give outline about the structures curriculum of the program. Bridge Course also inducts fresher into the collegiate atmosphere, familiarises them with the vision, mission, goals, objectives, rules of the college and averts their fear of English. At the beginning of the each semester all faculty will prepare action plan of their respective subjects which includes course outcomes and objectives it gives an insight to the contents of curriculum during the course of program. Action plan developed in the year includes a way to impart program educational objectives and its possible outcomes for each program and course objectives and course

outcomes which are defined for each course in the curriculum by the University. Teachers convey key and abstract concepts using PPTs and learning aids like molecular models along with the regular lecture methods. Labs are equipped with adequate equipments, computers and other consumables. A monitoring system involving the Principal and the HODs ensure full completion of the syllabi of all the courses. Students' progress is monitored by administering periodical diagnostic tests as well as assignments as a part of internal assessment. Library provides satisfactory access to the books prescribed in the syllabi. Students are encouraged to use e-learning resources. Student participation in the sports and physical fitness activities is given considerable weightage. With a vast outdoor facility, fully furnished indoor facility and a modern gymnasium, talented students are trained in sports and games and are made to represent the college at various levels of competitions. The annual sports day provides opportunity for the students to exhibit their sporting talent. Frequent seminars/lectures/demonstrations are organized on Yoga, physical and mental health aspects. The Cultural cell takes care of identifying and nurturing talents in literary activities and performing arts. Annual cultural fest beckons students to stage their performances. Documentation of curriculum delivery: Teachers document their everyday activity in the Academic Diaries which is reviewed by the respective HODs and further by Principal. The dairies also record the co-curricular and extra-curricular activities the teachers participate.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year										
Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development					
NIL	-	Nil	00	-	-					
.2 – Academic Flexibility										
1.2.1 – New progr	ammes/courses intro	duced during the a	cademic year							
Program	me/Course	Programme S	pecialization	Dates of Int	troduction					
	Nill	N	IL	Ni	11					
		No file	uploaded.							
•	es in which Choice B (if applicable) during	•	n (CBCS)/Elective	course system imple	emented at the					
	ammes adopting BCS	Programme S	pecialization	Date of impler CBCS/Elective 0						
	BSC	PCM, PME, CBbt, CZI	PMCs, CBZ, Mb, CZBt	01/07	7/2016					
	BVoc	Hardware Te Netwoi	chnology and rking	01/07	7/2016					
1.2.3 – Students e	enrolled in Certificate/	Diploma Courses i	ntroduced during t	he year						
		Certif	icate	Diploma	Course					
Number	of Students		0		0					
.3 – Curriculum	Enrichment									
1.3.1 – Value-add	ed courses imparting	transferable and lif	e skills offered dur	ing the year						
Value Add	ded Courses	Date of Int	roduction	Number of Stud	lents Enrolled					
00 Nill 0										

			uploaded	•			
1.3.2 – Field Projects / Internships u			-				
Project/Programme Title		Programme Specialization			No. of students enrolled for Fie Projects / Internships		
BSC		r	nil		0		
		No file	uploaded	•			
1.4 – Feedback System							
1.4.1 – Whether structured feedback	received	from all the	stakeholde	rs.			
Students Yes							
Teachers					Yes		
Employers					No		
Alumni					Yes		
Parents					No		
1.4.2 – How the feedback obtained i (maximum 500 words)	s being an	alyzed and	utilized for	overall	development of	the institution?	
Feedback Obtained							
accommodating all the sta the individuals and organ effectiveness in curricul were circulated to studen (of quick response type a effectiveness of curricul conclusions are drawn.	nization .um. The nt, teac and a si	n as a wh e structu chers and ingle des	nole to i ured feed d alumni. scriptive	mprov Iback The ques	e the perfo forms (prin forms conta tion) regar	ormance and at versions) ain questions ading the	
CRITERION II – TEACHING- LI	EARNING	G AND EV	ALUATIO	N			
2.1 – Student Enrolment and Pro	file						
2.1.1 – Demand Ratio during the yea	ar						
Name of theProgramProgrammeSpecializ		Number avail			umber of ation received	Students Enrolled	
BSC PCM PM CBZ CBBt		6	560		2328	657	
		View Upl	oaded Fi	le			
2.2 – Catering to Student Diversi	y						
2.2.1 – Student - Full time teacher ra	tio (currer	nt year data)				
YearNumber of students enrolled in the institution (UG)Number of students enrolled in the institution (PG)Number of fulltime teachers available in the institution teaching only UG coursesNumber of fulltime teachers available in the institution teaching only PGNumber of teachers available in the institution teaching only UG coursesNumber of fulltime teachers available in the institution teaching only PG							
2017 1276		237	94		20	14	
2.3 – Teaching - Learning Proces	S						
2.3.1 – Percentage of teachers using	g ICT for e	ffective tead	ching with L	earning	Management S	Systems (LMS), E-	

Number of	Numb	er of		ols and	Number o	of ICT	Number	ofemart	E-resources and
Teachers on Roll	teacher ICT (LI Resou	s using MS, e-	reso	urces lable	enable Classroe	ed	classr		techniques use
128	1	.28		16	10	б		0	100
		View	File	of ICT	Tools an	d reso	ources		
	V	iew Fil	e of E	-resour	ces and	techni	iques u	sed	
.3.2 – Students me	entoring s	ystem ava	ailable in	the institu	tion? Give d	letails. (maximum	500 wor	rds)
allotted to every far batches of me beginning of the ac of their learning needy students a with additional co identified and giv improve their perfo student counsellin the mentor finds ou also monitor the de During parent t includes the sports documented. T	culty in th ntees, dis cademic y . The mer personal ompetitive en not on ormance. I g centre v ut any kine evelopme eacher in and extra he mento	e beginnin tribution of ear. The counselli tools for ly counse if any of th where a te d of health nt and co teractions acurricula rs meet th	ng of the mentors i in to their ing is also learning. Illing but a ne studer eam of tra n issue th mpetenci s, the mer r activities ne parents	year. The batches ar meet the s problems b done on The slow also sugge the slow also sugge the student ies of the st s of the st s at least of	monitoring ad giving origination students regular learners, prestions to compose any sort series lty provide to sare referrent students and uss the same udents there once in eacl	commit entation ularly a guidan basis. T roblema ope up v ous pers hem the ed to sui d mainta e with th eby an c h semes	tee under to all the nd discuss nee individ The advan atic and dis with their a sonal prob e needed p itable hea ain an aca ne parents overall dev ster in this	akes the faculty n s with the ually of i ced learn academic lem they bersonal lthcare fa ademic p s. Furthe velopmer regard.	nembers in the em several aspect in group. For the ners are provided aged learners are c problems and to v are referred to th support. In case in acility. The mentor rogress document r this document nt of the students Every semester
meetings are conducted to review the progress of the mentoring system. The overall progress of the mentoring program is documented and reviewed in the meeting. Number of students enrolled in the institution Number of fulltime teachers Mentor : Mentee Ratio									
institu	ution	d in the	Nun		ltime teache	ers	M		
institu 1	ution 513		Nun			ers	M		Mentee Ratio
institu 1! 4 – Teacher Prof	ution 513 ile and C	luality		1	ltime teache	ers	M		
institu 1! 4 – Teacher Prof	ution 513 ile and C	luality		1	ltime teache	ers	M		
institu 1! 4 – Teacher Prof	ution 513 ile and C ull time te	luality	pointed c	during the	ltime teache	Positio	M ns filled dr	uring I	1:12
institu 1 4 – Teacher Prof .4.1 – Number of fu No. of sanctioned	ution 513 ile and C ull time te	tuality achers ap	pointed c	during the	ltime teache L28 year	Positio	ns filled d	uring I	1:12 No. of faculty with
institu 1 4 – Teacher Prof 4.1 – Number of fu No. of sanctioned positions 77 4.2 – Honours and	ution 513 ile and C ull time te d No. c d recognit	Quality achers ap of filled po 77 ion receiv	pointed of sitions ed by tea	during the Vacant p achers (ree	ltime teache L28 year positions 0 ceived awar	Positio the o	ns filled de current ye 0	uring I ar	1:12 No. of faculty with Ph.D 33
institu 1 4 – Teacher Prof .4.1 – Number of fu No. of sanctioned positions	ution 513 ile and C ull time te d No. c d recognit om Gover	Quality achers ap of filled po 77 ion receive nment, re Name of receivi state lev	pointed of sitions ed by tea	during the Vacant p vachers (ree bodies du teachers ds from hal level,	Itime teache L28 year positions 0 ceived awar uring the yea	Positio the o	ns filled de current ye 0 ognition, fe	uring I ar ellowship	1:12 No. of faculty with Ph.D 33
institu 1 4 – Teacher Prof 4.1 – Number of fu No. of sanctioned positions 77 4.2 – Honours and ternational level fro	ution 513 ile and C ull time te d No. c d recognit om Gover	Quality achers ap of filled po 77 ion receive nment, re Name of receivi state lev inter	pointed of sitions sitions full time ng awarc rel, natior	during the Vacant p Vacant p bodies du teachers ds from hal level, level K.	Itime teache	Positio the o ds, reco ar)	ns filled de current ye 0 ognition, fe n	uring I ar I ellowship fellows Governi Ce ou contr INORG	1:12 No. of faculty with Ph.D 33 os at State, Nation the of the award, ship, received fron ment or recognize

	i			1		1	1		
	2017	Dr. Geo Vasant			ssistant ofessor	Ka	Dr. Jayamma yanna endowment award from urnataka Women ers association		
	2017 Dr. Ras Hosaman				ssistant ofessor	post spor nati on :	Third prize for ter presentation in the UGC msored two days conal conference recent advances developments in microbial technology		
	2017	Dr. Ra Hosama			ssistant ofessor	micr th theo to t k rese	ellowship award of the Indian ssociation of applied robiologists for the devotion in ory and practice the promotion of mowledge and earch in applied microbiology		
		2	<u>View Upl</u>	oaded Fi	<u>le</u>				
2	2.5 – Evaluation Proces	s and Reforms							
	2.5.1 – Number of days fro he year	om the date of seme	ster-end/ ye	ear- end exa	amination till the d	leclara	ation of results during		
	Programme Name	Programme Code	Semest	er/ year		ear-	Date of declaration of results of semester- end/ year- end examination		
	BSc	1	II/	IV/VI	25/05/20	18	16/06/2018		
	MSc	2,3,4	II	I/IV	12/07/20	18	07/08/2018		
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2.5.2 - Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The IQAC of our college gives high importance to continuous formative assessment. At the beginning of every semester along with the preparation of academic calendar and the action plan of the semester, internal examinations are planned. This planning well in advance helps the faculty members to cover the syllabus required for the internal test. Separate internal examinations are conducted for both theory as well as practical components. Multiple internal texts provide the students to improve their internal assessment marks. Further, continuous assignments are given and evaluated keeps the students to follow up the teaching being delivered in the classes. In addition to these, quizzes, surprise test and several innovative evaluation methods are used for the continuous formative assessment of the students.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

follows the academic calendar of Tumkur University. Dates of beginning as well as the end of the semester, conduction of semester end examinations are fixed by the Tumkur University. However, the calendar for the continuous formative assessment is prepared at the institution level and adhered to it in conducting internal assessment examinations. At the beginning of the academic year, an action plan is drawn based on the academic calendar issued by the Tumkur University, the dates of internal examinations are fixed. The conduction of internal examinations is carried out at the departmental level for both theory and practical components.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

www.ucst.ac.in

2.6.2 - Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
1	BSC	All Combinations	734	571	77.79
2	MSC	Physics	95	62	65.26
3	MSc	Chemistry	102	52	50.98
4	MSc	EVS	25	23	92
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

www.ucst.ac.in

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 - Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	International Projects1095 CEFIPRAProjects90Tumkur University		Total grant sanctioned	Amount received during the year						
International Projects			300	63.4						
Projects sponsored by the University			1.2	1.2						
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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop	/seminar	Name of the Dept.	Date
Nil		Nil	

(3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year										
	Title of the innovati	ion Nar	ne of Awa	ardee	Awarding	g Agency	Dat	e of awar	b	Category	
	Nil Nil				N	Nill Nill				Nil	
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(3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year										
	Incubation Center	Nar	me	Spon	sered By	Name of Start-u		Nature c		Date of Commencement	
	Nil	N	[i]		Nil	Ni	1	N	il	Nill	
					<u>View Upl</u>	oaded Fi	<u>le</u>				
3	3.3 – Research Publications and Awards										
3	3.3.1 – Incentive to the teachers who receive recognition/awards										
	Sta	ate			Natio	onal			Intern	ational	
	0)			0	0			C	00	
	3.3.2 – Ph. Ds awar	ded durin	g the yea	r (applio	cable for PG	College, R	esearch	n Center)			
F	Nar	me of the	Departme	ent			Nun	nber of Ph	D's Awa	rded	
	Ph	nysical	educat	ion					2		
	3.3.3 – Research Pu	ublication	s in the Jo	ournals	notified on l	JGC websit	e during	g the year			
	Туре		D	epartm	ent	Number	of Publi	ication			
	Nationa	1		Kanna	ada		7			Nill	
	Internatio	onal	comp	uter	science		3			Nill	
	Internatio	onal	bio	otechr	nology		3		Nill		
	Internatio	onal	(chemis	stry	34			Nill		
	Internatio	onal		physi	lcs		1			Nill	
	Internatio	onal	Mi	crobi	ology	3 Ni			Nill		
	Internatio	onal		Zoolo	DAX	4				Nill	
	Internatio	onal	E	lectro	onics	2				Nill	
	Internatio	onal		Physi ducati			1			Nill	
					<u>View Upl</u>	<u>oaded Fi</u>	<u>le</u>				
	3.3.4 – Books and C Proceedings per Tea	•			s / Books pu	blished, and	d paper	s in Natior	nal/Intern	ational Conference	
		Depar	tment				N	umber of I	Publicatio	on	
	Library a	and info	ormatio	n sci	ences				1		
	Ph	ysics (UG and	PG)				:	11		
	Chem	nistry	(UG and	PG)				:	15		
		Biotec	hnology	Z					5		
		Microl	biology					:	13		
	Language	s (Kann	ada and	l Engl	lish)			:	11		
	C	Compute	r Scien	ce					7		
l											

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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Green synthesis of gold na noparticle s: Its effect on coccoon and silk traits of mulberry silkworm (Bombyx mori L.)	RR Patil, H Raja Naika, SG Rayar, N B alashanmug am, Vivek Uppar, Atanu Bhat tacharyya	Particul ate Science and Technology pp.	2017	4	University College of science, Tumkur Uni versity, Tumkur	9
Facile- one pot- green synthesis, antibacter ial, antif ungal, ant ioxidant and antipl atelet activities of lignin capped silver nan oparticles : A promising therapeuti c agent.	. Marula siddeshwar a MB, Dakshayani SS, Sharath Kumar MN, Chethana R, Raghave ndra Kumar P, Devaraja S.	2017, 81 :182-190.	2017	12.6	University College of science, Tumkur Uni versity, Tumkur	100
Regiosel ective Synthesis, Antibacter ial, Molecular docking and Finger print appl ications of 1- benz hydrylpipe razine der ivatized 1 ,4-disubst ituted 1,2 ,3-Triazol	Shivaraja G, S Sreen ivasa, Ramesha A R, Madhu Chakrapani Rao, H Nag abhushana	chemistr ySelect (W iley- vch.de)	2018	1	University College of science, Tumkur Uni versity, Tumkur	4

Supramol	Р.	Journal	2017	5.1		10
ecular arc hitecture of 5-bromo -7-methoxy -1-methyl- 1H-benzoim	Krishna Murthy, Smitha.M, Sheena Mary Y, Stevan Armakovi?, Sanja J. Armakovi?, R. Sreenivasa Rao, P.A. Suchetan, L. Giri, Rani Pavithran, C.Van	of Molecular Structure (Elsevier)			University College of science, Tumkur Uni versity, Tumkur	
studies, Synthesis, characteri zation and computatio	Alsenoy P. Krishna Murthy, V. Suneetha, Stevan	Journal of Molecular Structure	2018	5.1	University College of science, Tumkur Uni	34
nal study of the newly synt hetized su lfonamide molecule,	Armakovi?, Sanja J. Armakovi?, P.A. Suchetan, L.Giri, R. Sreenivasa Rao				versity, Tumkur	
Synthesis, Crystal structure, Hirshfeld surface studies and frontier orbitals analysis of 4-(1- b enzofuran- 2-y1)-2-me thy1-6-phe nylpyrimid ine.	Krishnas wamy G., Krishna murthy potla, Suchetan P. A., Nivedita R Desai, Aruna Kumar Doyijode, R. Sreenivasa Rao.	Chemical Data Colle ctions,	2017	2.5	University College of science, Tumkur Uni versity, Tumkur	2
oscopic ch	P. Krishna Murthy, G. Krishnaswa my, Stevan Armakovid,	Journal of Molecular Structure,	Nill	5.1	University College of science, Tumkur Uni versity,	14

reactivity study and charge transfer analysis of the newly synt hetized 2- (6-hydroxy -1-benzofu ran-3-yl) acetic acid.	Sanja J. Armakovid, P.A. Suchetan, Nivedita R. Desai, V. Suneetha, R. reeniva saRao, G. Bhargavi, D.B. Aruna kumar.				Tumkur	
High per formance affinity c hromatogra phy and related separation methods for the analysis of biological and pharma ceutical agents.	Zhang C, Rodriguez E, Bi C, Zheng X, Suresh D, KyungahSuh , Li Z, Elsebaeia F and Hage DS.	Analyst,	Nill	6	University College of science, Tumkur Uni versity, Tumkur	28
		Vie	ew Uploaded	<u>File</u>		
3.3.6 – h-Index o	of the Institutiona	I Publications du	ring the year. (ba	ased on Scopus/	Web of science)
Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Green synthesis of gold na noparticle s: Its effect on coccoon and silk traits of mulberry silkworm (Bombyx mori L.)	RR Patil, H Raja Naika, SG Rayar, N B alashanmug am, Vivek Uppar, Atanu Bhat tacharyya	Particul ate Science and Technology	2017	44	9	University College of science, Tumkur Uni versity, Tumkur
Facile- one pot- green synthesis, antibacter	. Marula siddeshwar a MB, Dakshayani SS, Sharath	Mater Sci Eng C Mater Biol Appl.	2017	163	100	University College of science, Tumkur Uni versity,

and antipl atelet activities of lignin capped silver nan oparticles : A promising therapeuti c agent.	R, Raghave ndra Kumar P, Devaraja S.					
Synthesis, Crystal Structure and Molecular Docking Studies of Novel 2-(4 -(4-substi tuted phen ylsulfonyl) piperazi n-1-yl) qu inolone-3- carbaldehy de Derivat ives	R Nivedita Desai, G. Krishnaswa my, S Naveen, NK Lokanath, PA Suchetan, DB Aruna Kumar, Sreenivasa S.	Research on Chemical I ntermediat es,	2017	54	1	University College of science, Tumkur Uni versity, Tumkur
Developm ent, Formu lation, and Evaluation of Sodium Alginate-G- Poly (Acry lAmide-Co Acrylic Ac id/Cloiste -30b)/Agnp s Hydrogel Composites and their applicatio ns In Paclitaxel Drug Delivery and Anticancer Activity	Venkata		2018	20	7	University College of science, Tumkur Uni versity, Tumkur
Synthesis, photolumin escence and	M. Srinivas, G.R. Vijay akumar, K.M.	Journal of Science: Advanced Materials	2017	40	26	University College of science, Tumkur Uni

	Mahadevan, H. Nagabhu shana, H.S. Bhojya Naik	and Devices				versity, Tumkur
Different supramolec ular archi tectures mediated by different weak inter actions in the crystals of three N -(ary1)-2, 5-dimethox ybenzenesu lfonamides	s, K. Sh akuntala, S. Naveen, N. K. Lokanath, Suchetan P. A and M. Abdoh	Acta Cryst. E	2017	15	4	University College of science, Tumkur Uni versity, Tumkur
Supramol ecular arc hitecture of 5-bromo -7-methoxy -1-methyl- 1H-benzoim idazole.3H 20: Synthesis, spectrosco pic invest igations, DFT comput ation, MD simulation s and Docking studies,	P. Krishna Murthy, Smitha.M, Sheena Mary Y, Stevan Armakovi?, Sanja J. Armakovi?, R. Sreenivasa Rao, P.A. Suchetan, L. Giri, Rani Pavithran, C.Van Alsenoy	Journal of Molecular Structure (Elsevier)	2017	110	10	University College of science, Tumkur Uni versity, Tumkur
Synthesis, characteri zation and computatio nal study of the newly synt	P. Krishna Murthy, V. Suneetha, Stevan Armakovi?, Sanja J.	Journal of Molecular Structure	2018	110	34	University College of science, Tumkur Uni versity, Tumkur

hetized su lfonamide molecule,	Such L.Gin Sreen	A. etan, ci, R. nivasa ao					
Synthesis, Crystal structure, Hirshfeld surface studies and frontier orbitals analysis of 4-(1- b enzofuran- 2-yl)-2-me thyl-6-phe nylpyrimid ine.	wamy Kri mun pot Such P. Nived Des Ar Ku Doyi F Sreer	ishnas 7 G., shna cthy cla, netan A., dita R sai, una mar jode, R. nivasa	Chemical Data Colle ctions,	2017	17	2	University College of science, Tumkur Uni versity, Tumkur
Structural and spectr oscopic ch aracteriza tion, reactivity study and charge transfer analysis of the newly synt hetized 2- (6-hydroxy -1-benzofu ran-3-yl) acetic acid	Murth Krish my, S Armak San P. Such Nived Desa Sune F Sreen Rao Bhar D.	Stevan Kovi?,	Journal of Molecular Structure	2018	110	12	2 University College of science, Tumkur Uni versity, Tumkur
			Vi	ew Uploaded	File		
3.3.7 – Faculty p	articipa	tion in Se	minars/Confere	nces and Sympo	sia during the ye	ar :	
Number of Fac	culty	Inter	national	National	State	9	Local
Resourc persons			0	20	0		0
Present papers	ed		3	27	4		0
Attended/ nars/Worksh			0	7	2		0
			Vi	ew Uploaded	File		
.4 – Extension	Activi	ties					

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Library orientation program	university college of science	5	200
special lecture by Prof. C. R. Pradeep, CIT, Gubbi on 'Joy of Learning Mathematics' for Undergraduate students on 6th October 2017 at	Department of Mathematics, University College of Science, Tumkur University, Tumakuru.	10	299
Exhibition on the Application of Mathematics as a part of Science Day during the academic year 2017-18.	Department of Mathematics, University College of Science, Tumkur University, Tumakuru.	10	201
Organized Workshop on `Bharavanige Koushala' On 4th Oct 2017	Department of kannada University College of Science, Tumkur University, Tumakuru.	5	250
Organized Workshop on 'Kavya Shravana' Ancient Poetry Recital' On 9th Aug 2017	Department of kannada University College of Science, Tumkur University, Tumakuru.	5	300
Organized Workshop on `Kavya Shravana' Ancient Poetry Recital' On 9th Aug 2017	Department of kannada University College of Science, Tumkur University, Tumakuru.	5	450
Conducted science popularization program at Govt High School, Swandenahalli, Tumakuru, Karnataka on 10/11/2017	DOSR University College of Science, Tumkur University, Tumakuru.	10	600
Conducted science popularization program at Govt High School, Gularave, Tumakuru, Karnataka on 14/11/2017	DOSR in chemistry, University College of Science, Tumkur University, Tumakuru.	13	540
Popularization of Science programme has successfully	DOSR in physics University College of Science, Tumkur	7	300

organized in S: Pirangiswamy Hig Primary School Gavimata, Kunig (Taluk) as acade activity and t enhance science temperament in E School Level Students.	n in gal emic co ce ligh	Universi Tumakur					
			<u>View</u>	<u>/ File</u>			
3.4.2 – Awards and rec during the year	ognitic	n received for ex	tension act	ivities from	Government and	other	recognized bodies
Name of the activit	у	Award/Reco	gnition	Award	ding Bodies	N	lumber of students Benefited
nil		nil			nil		Nill
			View	<u>r File</u>			
3.4.3 – Students partici Organisations and progr					-		
Name of the scheme	-	nising unit/Agen collaborating agency	Name of the	he activity	Number of teach participated in s activites		Number of students participated in such activites
Conducted social awareness programes i.e., clean India, green India and swachch bharath at Swandenahalli -village, Tumakuru, Karnataka on 11/11/2017	Ur Cc Scie Un	DOSR in hemistry, hiversity ollege of nce, Tumkur iversity, umakuru.	swa bhar	achch rath	30		300
Conducted social awareness programs i.e., clean India, green India and swachch bharath at Gularave- village, Tumakuru, Karnataka on 12/11/2017	Ur Co Scie Un	DOSR in hemistry, hiversity ollege of nce, Tumkur iversity, umakuru.	swa bhar	ichch rath	50		500
	I		View	<u>/ File</u>	<u> </u>		l
3.5 – Collaborations							
3.5.1 – Number of Colla	aborati	ve activities for re	esearch, fac	culty exchar	nge, student excha	ange	during the year
Nature of activity		Participa	nt	Source of f	financial support		Duration

researc	research Raghay		Dr. P. vendra Kumar	na		1200	
researc	h	dr :	s sreenivasa	na		365	
			View	<u>/ File</u>			
.5.2 – Linkages wit cilities etc. during t		ons/indus	tries for internship,	on-the- job training,	project v	vork, shar	ing of research
Nature of linkage	ure of linkage Title of th linkage		Name of the partnering institution/ industry /research lab with contact details	Duration From	Durati	on To	Participant
nil	r	il	nil	Nill	N	i11	nil
			<u>View</u>	<u>/ File</u>			
.5.3 – MoUs signed ouses etc. during th		titutions o	f national, internatio	onal importance, oth	er univer	sities, ind	ustries, corporat
Organisatio	Organisation		of MoU signed	Purpose/Activities		Number of students/teachers participated under MoUs	
nil			Nill	nil			Nill
			View	<u>/ File</u>			
1 – Physical Faci	lities			NING RESOUR		ear	
Budget allocate	d for infra	astructure	augmentation	Budget utilize	d for infra	structure	development
		2			1	3	
.1.2 – Details of au	gmentatio	on in infra	structure facilities d	luring the year			
	Facil	ities		Exi	sting or N	lewly Add	ed
	Campu	ıs Area				sting	
	Class	rooms		Existing			
	Labor	atories			Exi	sting	
purchased	(Greate				Newly	Added	
			View File	<u>View File</u>			
2 – Library as a L	earning	Resourc					
.2.1 – Library is au	tomated {	Integrate	d Library Managem	ent System (ILMS)}			
Name of the IL software	MS		f automation (fully or patially)	Version		Year	of automation
e-Lib i-Next version)			Fully	22.04.3	0		2017
1.2.2 – Library Servi	ces						

Library Service Ty		Exis	ting		Newly	Addeo	d		То	tal	
Text Books		41592	252190	2 3	301	1	270456	4	4893	3	3792358
Referen Books		5362	117285	1	0		0	5	362	1	L172851
Journa	als	36	102706	5	0		53200		36		155906
e-Boo	ks	97000	27225	19	9500	:	16090	29	6500		43315
Libra Automati		0	0		1	1	.94877		1		194877
			Z	View File	<u>e View</u>	File	2				
	WAYAM ot	her MOOC	eachers such Ss platform NI .MS) etc								
Name of	f the Teach	er	Name of the	Module			vhich mo eloped	dule	Date of I	aunc onten	-
Nil		1	Nil		Nil				Nill		
				No file	upload	led.					
3 – IT Infra	astructure)									
.3.1 – Tech	nology Up	gradation	(overall)								
Туре	Total Co mputers	Compute Lab	r Internet	Browsing centers	Compute Centers		Office	Departm nts	e Availa Bandy h (MB GBP	widt PS/	Others
Existin g	89	32	0	0	4		4	15	0		0
Added	2	0	0	0	0		0	0	0		0
Total	91	32	0	0	4		4	15	0		0
.3.2 – Bano	dwidth avai	lable of int	ernet connec	tion in the I	nstitution	(Leas	sed line)				
				1 MBP	S/ GBP	S					
.3.3 – Facil	lity for e-co	ntent									
Nam	e of the e-o	content de	velopment fa	cility	Provid	le the		e videos cording fa		lia ce	ntre and
		NIL						Nil			
4 – Mainte	enance of	Campus	Infrastructu	ire							
.4.1 – Expe omponent, o			naintenance	of physical f	facilities a	and ad	cademic	support fa	acilities, e	exclu	ding sala
-	ed Budget c mic facilities		xpenditure inc intenance of facilitie	academic		-	budget o facilities		Expenditu naintenan fa		physica
	26		12.8	36		6	5.5			2.4	2
	s complex,	computers	or maintaining s, classrooms								

The Institution has well-defined policies for maintaining and utilizing academic and support facilities. The general maintenance and upkeep of these facilities is the responsibility of the institution. Supporting staffs are appointed to assist in general maintenance in addition, housekeeping tasks are outsourced by the Tumkur University. The Office Superintendent is over-all in charge of monitoring infrastructure maintenance. Regular maintenance of computer laboratories and systems are carried out by the concerned Department. The services of the Engineer of the Tumkur University are also available for consultation and guidance. Computer systems available in the laboratories and the Resource Centre in the library are fully utilised. The library is fully utilised and is open from 9.00am to 6.00 pm to facilitate the maximum number of users. Requirement for new textbooks, reference books, magazines, journals and e-books re procured as per the suggestions given by Library Committee, HODs and are placed before the management for approval by the Librarian and procured as per approval. Periodic weeding out of outdated textbooks is also undertaken after approval in order to make space for new titles. Stock verification is done annually with the help of faculty. There is an allocation for substantial annual budget for adding books to the library collection and improving library

facilities. General infrastructural facilities are maintained by college supporting staff. The services from Tumkur University like guidance from Civil Engineer, Electrical engineer, electricians, plumbers and gardeners are always available. Any maintenance or repair work is reported to the concerned official for required action. All major requirements have to be submitted in writing for approval. Requirements for new classroom furniture or fittings are submitted in writing by the Principal to the Tumkur University for approval by Purchase Committee. All sports facilities, including multi gym, are maintained by the Physical Education Director along with college supporting staff. Requirement for new equipment or repair of old equipment is placed before the concerned Committee.

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

	Name/Title of the scheme	Number of students	Amount in Rupees				
Financial Support from institution	NIL	Nill	Nill				
Financial Support from Other Sources							
a) National	<pre>1. SC/ST social welfare Day/Hostel scholar 2. BC fee concession - District Nonplan, 3. BC fee concession - State sector plan</pre>	952	2817550				
b)International	NIL	Nill	Nill				
<u>View File</u>							

Name of the capability	Date of implemetation	Number of students	Agencies involved
enhancement scheme		enrolled	

Soft skill 1 development		9/08/2017	80		Mr. Pavan Kumar, STS Worldwide, Regional office: Novus STS (subsidiary of STS Worldwide), 22/1, Dr.Rajkumar Road, Malleshwaram west, 2nd floor, World trade Centre, Bangalore, India.2nd floor, World trade Centre, Contact No: 7204476128		
Remedial co	aching	0	6/03/2018	500			ulties from departments
Bridge cou	irses	1	5/06/2017	540		Colle	ege faculties
-	Yoga and 2 Meditation		2/07/2017	500		Dr. Manjunath A.M. Dept. of Physical Education, University College of Science. Contact no.9448180513	
			View	<u>/ File</u>			
5.1.3 – Students be institution during the Year	-	of the	Number of benefited students for competitive	Number of benefited students by career	eer couns Numb student have pa the comp	er of s who ssedin	Number of studentsp placed
			examination	counseling activities		_	
2018	Re: Writ Ski	-	Nill	100	Ni	111	10
2017	ca: guida ce:		Nill	6	Ni	111	Nill
			View	<u>/ File</u>			
5.1.4 – Institutional harassment and rag				dressal of student	grievances	s, Preven	tion of sexual
Total grievan	ces receiv	ved	Number of grieva	ances redressed	Avg. number of days for grievanc redressal		
	7			6			35
5.2 – Student Prog		oomost d	uring the year				
5.2.1 – Details of ca			uning the year		• **		1
	On ca				Off car	-	
Nameof organizations	Numb stude		Number of stduents placed	Nameof organizations	Numb stude		Number of stduents placed

	participated		visited	participated	
STS Worldwide India, Bangalore	84	13	ITC, Bangalore IISc NMR Centre Jain College, Bangalore DOSR Chemistry	7	7
			Tumkur University Himalaya IAS and KAS Coaching centre Deeksha PU College,, Bangalore HHV Pvt Ltd, Dabaspete, Bangalore (Rural) STS Worldwide		
			India, Bangalore		
		View	v File		
5.2.2 – Student pro		•			
Year	Number of students	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme
	enrolling into higher education				admitted to
2018	-	B.Sc	Physics, Mathematics, chemistry , Botany and Zoology	Tumkur, Bangalore, Mysore, kuvempu universities and B.Ed colleges	
2018	higher education		Mathematics, chemistry , Botany and	Bangalore, Mysore , kuvempu universities and B.Ed	admitted to M.Sc and
	higher education 161 Jalifying in state/ nat	<u>Viev</u>	Mathematics, chemistry, Botany and Zoology <u>v File</u> level examinations	Bangalore, Mysore, kuvempu universities and B.Ed colleges during the year	admitted to M.Sc and
5.2.3 – Students qu	higher education 161 Jalifying in state/ nat	<u>Viev</u>	Mathematics, chemistry, Botany and Zoology <u>v File</u> level examinations Services/State Gov	Bangalore, Mysore, kuvempu universities and B.Ed colleges during the year	admitted to M.Sc and B.Ed
5.2.3 – Students qu	higher education 161 Jalifying in state/ nat /GATE/GMAT/CAT/	<u>Viev</u>	Mathematics, chemistry, Botany and Zoology <u>v File</u> level examinations Services/State Gov	Bangalore, Mysore, kuvempu universities and B.Ed colleges during the year ernment Services)	admitted to M.Sc and B.Ed
5.2.3 – Students qu	higher education 161 Jalifying in state/ nat /GATE/GMAT/CAT/ Items	<u>Viev</u>	Mathematics, chemistry, Botany and Zoology <u>v File</u> level examinations Services/State Gov	Bangalore, Mysore, kuvempu universities and B.Ed colleges during the year ernment Services)	admitted to M.Sc and B.Ed
5.2.3 – Students qu	higher education 161 Jalifying in state/ nat /GATE/GMAT/CAT/ Items SLET	View tional/ international /GRE/TOFEL/Civil \$	Mathematics, chemistry, Botany and Zoology <u>v File</u> level examinations Services/State Gov	Bangalore, Mysore, kuvempu universities and B.Ed colleges during the year ernment Services) students selected/ 2	admitted to M.Sc and B.Ed
5.2.3 – Students qu	higher education 161 Ialifying in state/ nat /GATE/GMAT/CAT/ Items SLET Any Other	View tional/ international GRE/TOFEL/Civil S View	Mathematics, chemistry , Botany and Zoology v File level examinations Services/State Gov Number of v File	Bangalore, Mysore, kuvempu universities and B.Ed colleges during the year ernment Services) students selected/ 2 3	admitted to M.Sc and B.Ed
5.2.3 – Students qu (eg:NET/SET/SLET) 5.2.4 – Sports and	higher education 161 Ialifying in state/ nat /GATE/GMAT/CAT/ Items SLET Any Other	View tional/ international GRE/TOFEL/Civil S View	Mathematics, chemistry, Botany and Zoology v File level examinations Services/State Gov Number of v File sed at the institution	Bangalore, Mysore, kuvempu universities and B.Ed colleges during the year ernment Services) students selected/ 2 3	admitted to M.Sc and B.Ed qualifying
5.2.3 – Students qu (eg:NET/SET/SLET) 5.2.4 – Sports and Act	higher education 161 Ialifying in state/ nat /GATE/GMAT/CAT/ Items SLET Any Other cultural activities / c	View tional/ international 'GRE/TOFEL/Civil S View ompetitions organis	Mathematics, chemistry, Botany and Zoology v File level examinations Services/State Gov Number of v File sed at the institution	Bangalore, Mysore, kuvempu universities and B.Ed colleges during the year ernment Services) students selected/ 2 3 n level during the year Number of F	admitted to M.Sc and B.Ed qualifying

<u>View File</u>

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
Quiz	National	Nill	1	1	Tejaswini N
Quiz	National	Nill	1	1	Harshitha H L and Akshara prasad
Drama co mpetition	National	Nill	1	1	Basavaraju T M and group
	award/medal Quiz Quiz Drama co	award/medalInternaionalQuizNationalQuizNationalQuizNationalDrama coNational	award/medalInternaionalawards for SportsQuizNationalNillQuizNationalNillQuizNationalNillDrama coNationalNill	award/medalInternaionalawards for Sportsawards for CulturalQuizNationalNill1QuizNationalNill1QuizNationalNill1Drama coNationalNill1	award/medalInternaionalawards for Sportsawards for CulturalnumberQuizNationalNill11QuizNationalNill11QuizNationalNill11Drama coNationalNill11

5.3.2 – Activity of Student Council & amp; representation of students on academic & amp; administrative bodies/committees of the institution (maximum 500 words)

The institution does have Student Council that functions in integrating and executing the various activities of the institution. Presently the Council consists of representative from all classes elected by the respective classmates. The major activities conducted by the Student Council during the last academic year are as follows: List of events organized by Students Council Name of the programme Fresher 's Day Science day Teachers Day Valedictory Annual Day Sports Day Ethnic day Students' representation in the Student Council is unique in that they are managed by the students for the students and by the students all organizing committees of the various fests have student representation along with the faculty-coordinators. Activities involve in planning, organizing and executing various activities of the institution under the guidance of the faculty coordinators.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

After helping students successfully to receive their degree/certification, our campus begins to look for new opportunities to continue adding value to the personal and professional life of alumni. Alumni associations are of vital importance for both alumni and the college. For alumni, our alma maters often provide networking opportunities, job connections, and community. Even graduates who move far away from their college have opportunities to participate in alumni chapter events, and meetups. This dynamic organization is recognized as a valuable resource of university college of science community with respect to student support and progression. The activities of associations are: Alumni Committee: This committee acts as a bridge between college and alumni associations. Conduct meetings for effective implementation of alumni engagement in the campus and conducted meetings on the same. Alumni Interaction: Every department organise alumni interaction, so that alumni can share their expertise with the students in terms of academic, higher education and career perspectives.

5.4.2 – No. of enrolled Alumni:

2800

5.4.3 – Alumni contribution during the year (in Rupees) :

280000

5.4.4 - Meetings/activities organized by Alumni Association :

meeting was conducted to discuss on alumni building.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Vision: • To Achieve Academic Excellence in Higher Education and Research Mission: • To inculcate and nurture young talents and evolve an effective mechanism for greater participation of all the stakeholders of the university college of science. • To develop and operationalize a strategy to foster financial self-sufficiency and self -reliance. • To promote cordial working conditions, work ethics, work culture among the faculty and staff members there by promoting welfare of the students and society. • To Introduce innovative curricular frame work aimed at knowledge, skill and aptitude-based, application oriented higher education and research. Decentralization: This is a Government autonomous college under Tumkur University. The Principal is the head of the college. Tumkur University is the administrative body consists of Honourable Vice chancellor, Registrar, Registrar (Evaluation) to the policies, road map, development and functioning of institute. The action plan is formulated by the planning body which includes Principal, heads of the department and coordinators of various departments. The Principal provides suggestions, monitors the procurement, and welfare activities. The head of the institution is responsible for academic, co-curricular and administrative activities of the institution. Further, for the sake of smooth running of the college, Various cells like student grievence and redressal cell, women empowerment cell, placement cell, Women's Development Cell etc, and different committees like Admission committee, Academic and Examination, Cultural, Discipline, NCC, NSS, Anti-ragging squad, etc. are formed. Participative Management: The college promotes a culture of participative management. The responsibility of the institution for its progress rests on the faculty, Heads of the department, Administrative officials and non-teaching staff. Various committee members work as a team for the betterment of the institute. At each level, there is an active participation in planning and implementation.

Partial

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	The College follows curriculum determined by the Tumkur University and Many faculties are members of BOS and

	BOE of Tumkur University and other Universities of the state. Faculties actively contribute to provide class notes to the students and wrote many text books. They make curriculum easy for students through different teaching methodologies, ICT and other Techniques.
Teaching and Learning	The college has the strategy of planning academic activities before the commencement of the semester. The academic calendar is given by the Tumkur University. The faculty prepares curriculum delivery plan. The institute promotes innovative teaching learning methods. A faculty uses different techniques for improving the students understanding and grasping power. Besides maintaining notes and using only blackboard for teaching as in earlier days, ICT and other teaching methods as group teaching, seminars by students, class quiz, assignments, etc. are used in the classrooms by faculties to enhance their teaching by making learning more interesting. Faculty are encouraged to attend FDP, workshop and upgrade their knowledge and skill.
Examination and Evaluation	The faculty members of the college are working as members internal and external examiners as paper setters and evaluators for theory and practical examination. Internal examinations (theory practicals are conducted for each semester and evaluation is carried out by the faculty. Semester examinations are conducted by the University. The results displayed on the Tumkur University website. The results are analyzed and students' feedback is obtained, and if necessary, changes are made in the delivery of subject. Assignments are also given in each course.
Research and Development	Faculties are encouraged to pursue research. Many faculties have undertaken major and minor research projects. Their research work has been published in many reputed National and international journals. Faculty also present research papers in international and national journals and conferences.
Library, ICT and Physical Infrastructure / Instrumentation	•Serials subscription system is maintained by entering the data in the E-Lib Integrated Library Management

	Software. •To support Library Automation RFID technology is implemented and tagging RFID tags to books is in process. •Library has access to more than 6000 e-journals (including current issues with 5-10 years back files) and 1,35,000 e-books through program entitled "National Library and Information Services infrastructure for ScholarlyContent (N- LIST)" by INFLIBNET. •Library has access to IEEE Communication Society Digital Library which includes 17 periodicals and conference and workshops proceedings Requirements of the equipments/instruments from departments are meet from time to time budget allocated by the university.
Human Resource Management	As a affiliated college, academic and non-academic staff is recruited by the Tumkur University. Faculties were appraised and motivated for further enrichment with research aptitude. Administrative staff is encouraged to provide their best support for the smooth functioning of the institution. The college also invites visiting faculties to fullfill the needs of institutions. Teaching staff is motivated to carryout co-curricular activities along with their basic duty of teaching. Teaching staff is inspired to bring out the best from the students through effective teaching. Platform is provided to the students to take part in various co-curricular activities as per their interest. Potential talents of the students are explored through extra-curricular activities. These talents will be nurtured and a platform is provided for exhibiting their expertise through intercollegiate competitions and youth festival.
Industry Interaction / Collaboration	Industry interaction like Special lectures are organized in the college from eminent speakers. Industrial visits are conducted to the students. Many faculties have collaborations with RD institutes, industries and other universities.
Admission of Students	Admission notification has been posted on the college and university websites and news papers. The students were given counseling and guidelines to choose proper course or subjects. Reservations followed as per rules and regulations guidelines of Karnataka

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Examination	All the exam related data and management activities are managed through computers. Results of internal exams are uploaded online. Students' registration form for examinations and marks of internal exams are uploaded
	online. The hall tickets are received online. End exam results are available on the university website. All correspondence to University like communicating the internal examination results, University examination forms etc. are partially communicated as sof copies and in the form of emails.
Planning and Development	To enable the office staff to work of computer, computer training was given to them. They were taught how to use net and send the email to keep in touc with other colleges, Office of higher education, education department, University, UGC, NAAC, etc.
Administration	Presently office related correspondences with Pay bill and othe bills, admissions, exam, scholarship, accounts, etc. are being operated online. The administration of office dealing with students, faculty, and admissions are partially computerized
Finance and Accounts	Accounts, salary, and exam forms, Scholarship, etc. is being operated with computers/online. All the salarie of teaching and non teaching staff ar computerized and online.
Student Admission and Support	College constitutes an admission committee for UG/PG level admission. Merit list announced online. Equal opportunity is given to all the eligible candidates/students irrespective of their caste, creed, gender, number of attempts and merit a HSC level purely on merit basis. College also gives admission to those students, who have passed in supplementary Exams after main HSC Exams. As a government college, the college gives admission to the deprive students. All the seats are filled every year in UG and PG departments of the college. All the scholarships and fees will be according to admissible t Karnataka state government.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2017	Dr Shet Prakash M	International conference on Advances in Science and Engineering (ICASC-2017) on 20-01-2017 to 22-01-2017, Thailand	Thailand	40000
		<u>View File</u>		

6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)	
2017	Nill	Nill	Nill	Nill	Nill	Nill	
View File							

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Orientation programme	1	03/06/2017	26/06/2017	28
Refresher programme	8	29/05/2017	23/12/2017	21
		TTI AND TTILA		

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6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment):

Teac	hing	Non-teaching		
Permanent Full Time		Permanent Full Time		
0	Nill	0	Nill	

6.3.5 - Welfare schemes for

Teaching	Non-teaching	Students
The staff association	The staff association	The mentor-mentee
established which is an	established which is an	system started to address
instruments that brings	instruments that brings	the problems of the

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly (with in 100 words each)

The accounts of the institute are regularly audited. The local inspection committee of Tumkur has audited the accounts of the institution. Apart from this , the auditing of the accounts of the institution is regularly monitored by the Finance department of Tumkur University.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose			
Nil	0				
<u>View File</u>					

6.4.3 – Total corpus fund generated

FIP.

00

6.5 – Internal Quality Assurance System

6.5.1 - Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal		
	Yes/No	Agency	Yes/No	Authority	
Academic	Yes	Tumkur University	Yes	University college of science	
Administrative	Yes	Tumkur University	Yes	University college of science	

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

A meeting of teachers and Parents conducted during the orientation program of the fresher students was concluded with the following points: To promote NSS and NCC among the students to develop community feeling. To encourage students to take part in extracurricular activities for their holistic development. To teach the opportunities and importance of the course. The information of the children progress are informed and interaction are allowed to know their problems if any from the college and suggestions are voluntarily accepted for the development of institutions.

6.5.3 – Development programmes for support staff (at least three)

• Faculties are encouraged Faculties are encouraged teachers are encouraged orientatio	to undertake	minor majo fessional	or re deve	search prog lopment tra	jects. • Also	
6.5.4 – Post Accreditation initiative(s) (mention at least the	ee)				
 Career Counselling Cen examinations. To enha empl 		or capacity	y bui	lding, sof		
6.5.5 – Internal Quality Assurance Sys	tem Details					
a) Submission of Data for AIS	SHE portal			Yes		
b)Participation in NIF	RF			No		
c)ISO certification				No		
d)NBA or any other qualit	y audit			No		
6.5.6 – Number of Quality Initiatives ur	ndertaken during the	e year				
Year Name of quality initiative by IQAC	Date of conducting IQAC	AC Duration From Duration To Number of participants				
No I	Oata Entered/N	ot Applica	able !	!!!		
	View	<u>v File</u>				
CRITERION VII – INSTITUTIONA	L VALUES AND	BEST PRA		ES		
7.1 – Institutional Values and Socia	al Responsibilities	5				
7.1.1 – Gender Equity (Number of gen year)	der equity promotio	n programmes	s organ	nized by the ins	titution during the	
Title of the Period fro programme	m Peric	od To		Number of Participants		
			Fe	emale	Male	
International 08/03/2 Women's day	2018 08/0	3/2018	149 101			
7.1.2 – Environmental Consciousness	and Sustainability/	Alternate Enerç	gy initia	atives such as:		
Percentage of power requ	uirement of the Univ	versity met by t	the ren	newable energy	/ sources	
TOTAL POWER REQUIR	ED 102.0 KW TO	TAL LIGHTI	ING E	QUIPMENT 2	6.93 KW	
7.1.3 – Differently abled (Divyangjan) f	riendliness					
Item facilities	Yes	/No		Number	of beneficiaries	
Ramp/Rails	3	les			0	
Rest Rooms	2	les			0	
Braille Software/facilities		No			0	
Scribes for examination	3	les.			1	
Special skill development for differently abled students		No			0	
Any other similar facility		No		0		

Provision for lift				No			0		
	on and Situate	1			_				
Year	Number of initiatives to address locational advantages and disadva ntages	Number initiative taken t engage v and contribut local commur	es o with e to	Date	Duration		ame of itiative	Issues addressed	Number o participatin students and staff
2017	1	1		05/06/2 017	1	World e nvironmen tal day		Environ mental	100
2017	1	1		21/06/2 017	1	Interna tional yoga day		Importa nce of yoga	250
2017	1	1		23/08/2 017	1	dor	Blood nation camp	Collect ion and p reservati on blood	50
2017	1	1		02/10/2 017	1	Swachha Bharath abhiyaan		Cleanli ness and maintenan ce of hygiene	100
				<u>View</u>	<u>File</u>				
1.5 – Huma	n Values and P	rofessiona	al Eth	ics Code of co	nduct (handbo	ooks)	for variou	us stakeholder	S
	Title			Date of pu	ublication		Follow up(max 100 words)		0 words)
KC	SR handbool	k		N:	ill		http://www.ucst.ac.in/K R		
UNIV	ERSITY STAT	UES		N	ill		http://ucst.ac.in/up ds/2023/may/UCST20Colle 20Code20of20Conduct2003 6_2023.pdf		20Colleg uct2003_
	C RULES AND EGULATIONS	D		N	i11		http://www.ucst.ac.in, gcrules		
1.6 – Activiti	ies conducted f	or promot	ion of	universal Val	ues and Ethics	3			
Ac	tivity	Du	ratior	n From	Durati	on To	C	Number of	participants
Ambedka	r Jayanthi	1	4/04	¥/2017	14/0	4/20)17	2	200
	national a day	2	1/06	5/2017	21/0	6/20)17	150	
Gandhi	Jayanthi	0	2/10)/2017	02/10/20		017 20		200
	a Bharath iyan	0	2/10)/2017	02/10/201)17	1	.00
	ndence Day	1	15/08/2017		15/08/2017)17	150	
Indeper				2/2018 21			21/02/2018		

International			
women's day	13/03/2018	13/03/2018	250
Republic day	26/01/2018	26/01/2018	250
	<u>View</u>	<u>File</u>	
.1.7 – Initiatives taken by the	e institution to make the camp	ous eco-friendly (at least five)
is collected every	gement: All degradabl day and dumped in to nure is utilized for	dumping pit for dec	compose. Decomposed
our college is hav from all laborat	gement: It is necessa ving good facility to ories to underground vaste is directed to	channel waste water channels for dispos	to be discharged al in a properly
and Recycle) method refilling is not po damaged or non-f returned to the max with	t As per the governme lology. Printer Cartr ossible, the cartridg unctional electronic, nufacturer. UPS batte the vendor for the	ridges are generally ye is returned to the /electrical material eries are exchanged	refilled, wherever manufacturer. All s (e-waste) were for a nominal cost
2 – Best Practices			
.2.1 – Describe at least two	institutional best practices		
by the teacher different academic from which the teac CBCS was introduce following the CBCS B.Voc., course this job opportunity. I intellectual ability	versity. There is a ,which is possible by related activities hers will be transfored guideline. College of prepares students for in order to establish y of students and set ling was introduced.	y active involvement such as OC,RC,FDP, w rmed to motivated te to choose subjects o offers new skill base or future success in a common platform f lecting the right ca	of teachers in vinter school etc. achers. In 2016-17 of their choice by ed and job oriented academic growth an for evaluating the ndidate in to righ

identified by the above process and were given remedial teaching for improvement • Sample question papers and model of answers were prepared and

circulated to students. • Lab manuals were prepared and circulated experiments were demonstrated to the students. • The library was strengthened in terms of latest books, journals, e-journals. INFLIBNET and Internet laboratory facilities were created in the library • CBCS was introduced in the college during academic year 2016-17 students are able to choose subjects of their choice by following the CBCS guideline. CBCS facilitates learners to earn more or less credits in a semester based on their intellectual capacity. • College offers new B.Voc., course this course prepares students for future success in terms of further academic growth and job opportunity. • Skill enhancement: Students were promoted to develop experimental and soft skills though the application of the Internet and ICT based methods. Students were allowed to visit different industries as a part of their curriculum to know the new innovations and development in the industries, which is helping for the placement. • All the faculty members were promoted to attend and complete the career advancement programmes from time to time as per the UGC norms by which the teachers keep abreast of updating the knowledge in their respective fields. • Students will be informed to apply for different scholarships from time to time which help them for their studies. Evidence of Success The objectives set for the best practice have been reflected in the following ways • All the teachers have transformed into motivating teachers • Periodic monitoring of attendance has helped the students to be regular • Internal assessment tests helped the students to prepare well for the final examinations • Every successive year the results have improved and many ranks have been bagged by the institution. • Academically excelled students were able to go for their further studies at various reputed higher educational institutes. • The employability rate has enhanced compared to the previous years • The demand for taking admission into the college increasing every year which can be seen with the number of applications received for admission. • From 2012 the intake of the students has considerably increased due to demand 2. Research excellence Context: The main focus of the higher education in India is to promote research. This is a harmonious and healthy practice followed since the affiliation of the college to Tumkur University. The college conducts meeting every semester at the end to bring the faculty involved in research and extension activities. The meeting holds discussion about the following issues, 1. Major and minor projects undertaken 2. Number of papers published in peer reviewed journals 3. To strengthen the library and ICT facilities in all aspects of promotion of research. 4. Students projects undertaken 5. Encouraging the faculty and the students to organize and present research papers in the national / international seminars / conferences / workshops 6. Encouraging faculty to use innovative methods so that students appreciate science 7. Teachers and students are motivated to collaborate with external organizations both inside and outside the country to take up advanced research. The Practice University College of science a constituent college of Tumkur University has obtained the NAAC 'A' grade accreditation in 2012, continuing the same the institute has taken the initiative of Promotion of research and extension activities as a best practice. As per the objectives we have setup a committee for promotion of research and extension activities in the institute. Based on the committee recommendations 21 the faculty members have registered for Ph.D., degrees and 6 members have completed their Ph.D., during the last five years. All eligible faculty members were advised to take-up the major/minor research projects from various funding agencies. From 2012 total 30 projects were sanctioned to the college and all 30 projected were successfully completed till 2107 of total Rs 1, 69, 70,000/- Under this best practice 340 papers were published in national international journals. More than 350 many papers were presented in the national and international conferences. Because of active participation of the faculty members they have updated their knowledge in the field of research. Under the research projects some of the faculty members were able to establish collaboration with companies and other higher

educational institutions through MoUs. As per the curriculum of the university the staff members have guided the student projects in under graduated and post graduate departments. Students projects were sanctioned from various funding agencies, through these projects students have published research articles in the conferences and seminars. 18 faculty members have got the guide-ship in their research field from Tumkur University. Since 2012 forty seven Ph.D., were guided and one awarded the Ph.D., degree, 46 research scholars are pursuing Ph.D. We have conducted workshops for students where the students have gained hands on experience in various field of science and technology. As per the objective we have encouraged the students to visit and participate in the open day programmes at IIS Bangalore. Every year the college has organized study tours and industrial visits to encourage and enhance their knowledge in the field of science. Many of our students have obtained the scholarships from KSTA. Students and the faculty members make use of the ICT facilities for academic and research work. Swachh Bharth Abhiyaan programmes have been conducted in the college to create awareness about cleanliness among students and faculties.NCC and NSS units of the college have actively taken up the work of Swachh Bharath Abhiyaan at various nearby villages. Every working day of the college starts with the state and National anthem by which the students and faculties develop patriotism in them. Evidence of success As per the set objectives the faculty members have completed their Ph.D., after joining the institute. The faculties have participated in the various International and National Conferences/Symposiums/Seminars and workshops and updated their knowledge in their respective fields. With set objective the faculty members have applied for minor /Major projects funded by various funding agencies and were able to get various projects. The sanctioned projects were implemented and were completed in time. The outcome of the projects was published in various national and international Journals. Individual department had organized conferences and workshop at national level compliance of dates and schedules by one and all in the college itself is an evidence for success of this practice. All are abreast and updated with information.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

University College of Science, an institution with Potential for excellence, constituent College of Tumkur University (erstwhile Government Science College) was established in 1940 to cater to the educational needs of Tumakuru district where the majority of students hail from the rural background. Tumkur is Just 70 Kilometers away from Bangalore the State capital of Karnataka. The college is situated in the heart place of Tumkur City. Tumkur the city is well popular as Kalpataru Naadu (land of coconuts) and is also well known for education. The college has an area of 90 acres and the campus is about 98,800 sq. ft. In 2009, the erstwhile Government Science College was handed over to Tumkur University,

when it was renamed as University College of Science. Presently, it is one among the two constituent colleges of Tumkur University. Having the vision "To achieve academic excellence in Higher Education Research", The institution is constantly upgrading its infrastructural facilities and human resources in it and heading forward in achieving its mission "To inculcate and nurture young minds to evolve an effective mechanism for greater participation of all the stake holders of University College of Science. To develop and operationalize a strategy to foster financial self-sufficiency. To promote cordial working conditions work ethics, work culture among the Faculty staff members thereby

promoting the welfare of the students and the Society. To introduce innovative curricular framework of Knowledge, skill aptitude Base application oriented higher education research. The major stake holders of the institute are students of Tumkur rural areas, who come from remote areas and are economically deprived from the professional education due to their economic condition. Having them as the major stake holders the college is offering courses in B.Sc., of different combinations of science such as PCM, CBZ, PMCs, PME, CZMb, CBBt and CZBt. The college is also offering the B.Voc course in hardware technology and networking. PG Courses in Chemistry, Physics and Environmental Science are also offered in the college. The college has got a well-established library comprising good number of books, journals and e-resources and is supporting the staff and the students of the college. Presently the college has about 1600 plus students. All the above courses are well supported by fiftyfive permanent faculty members and 94 full time guest faculties. Faculty members are dedicated, competent and well qualified who also engage them self in various funded projects from the funding agencies like UGC, DST, CSIR, DBT, VGST etc..,. Some of the faculty members also guiding the Ph.D., programs of Tumkur University. The institute also supports all the other co-curricular and extension activities such as NCC, NSS, sports and cultural programms. In all, the institute is supporting the overall growth of the students by which the students are fulfilling the existence of the institute. Mentioning all the above relevance University College of Science has grabbed the recognition of being the institution of college with potential of excellence and make it as distinctive from other institutions.

Provide the weblink of the institution

https://ucst.ac.in/

8. Future Plans of Actions for Next Academic Year

Promote the faculty members to be involved in curriculum designing such as per the sate and university provisions and based on feedback from various stake holders (open elective courses and adding more self learning modules, skill components, topics concerning local, regional, national and international issues, gender issues, environment related topics, social issues. Timely revival of the syllabus and take feed-back on the syllabus. Promoting the teachers to improve teaching skills for betterment of the institution. Creating good learning atmosphere to students such as use of smart class rooms enabled with ICT tools, creating competitive atmosphere in the institution for learning Promote the faculty to participate in the work-shops, conferences related to teaching, learning and evaluation Support and encourage the staff to obtain Ph.D degrees, to take up research projects and guide-ship in respective areas of research. Promoting to publish research papers in journals and conferences of repute. Sensitize faculty about IPR and promote industry institute interaction by developing MOUs with industry and academia. Promoting all the extension activity programmes of NCC, NSS, Sports and science popularization programmes. Creation of all round facilities in the campus for both faculty and students like library, sports, canteen etc. Upgrading the existing and classrooms and laboratories by writing proposals to various funding agencies. Promoting the faculty and students to develop the holistic leadership qualities, involve teachers and students in the various committees for the smooth functioning of the institution. Creating awareness among students about different scholarships available through state and central government schemes and facilitate to receive them from the various agencies. Creation of student activity cell, promotion for conducting the programmes related to personality development and career guidance. Conducting placement drives thorough placement cell. Promotion of alumni activities in the campus. Promote students to take-up the research projects and attend the conferences and seminars. Promote to conduct activities related to building values among faculty and students, sensitizing the students about the environment