



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution		UNIVERSITY COLLEGE OF SCIENCE
Name of the head of the Institution		Shalini B R
Designation		Principal (in-charge)
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08162260220
Mobile no.		8762576187
Registered Email		principalucst@gmail.com
Alternate Email		iqacucs@gmail.com
Address		BH Road Tumkur
City/Town		Tumkur
State/UT		Karnataka
Pincode		572103
2. Institutional Status		

Affiliated / Constituent	Constituent
Type of Institution	Co-education
Location	Urban
Financial Status	state
Name of the IQAC co-ordinator/Director	Dr. Shet Prakash M
Phone no/Alternate Phone no.	08162260220
Mobile no.	9448803947
Registered Email	iquacucs@gmail.com
Alternate Email	shirsatpm@gmai.com

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://ucst.ac.in/aqar.php
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://ucst.ac.in

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
3	B+	2.66	2019	08-Feb-2019	07-Feb-2024

6. Date of Establishment of IQAC	07-Jun-2004
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
nil	30-Jun-2019 0	0

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
University College of Science, Tumkur	CPE	UGC	2016 1800	10000000
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9. Whether composition of IQAC as per latest NAAC guidelines:

No

Upload latest notification of formation of IQAC

No Files Uploaded !!!

10. Number of IQAC meetings held during the year :

5

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

No

Upload the minutes of meeting and action taken report

No Files Uploaded !!!

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

1. Conducted the Bridge Course for the I year students 2. Enhancement in the research activity by undertaking projects funded by various funding agencies 3. Enhance ICT facilities, Canteen facility and also strengthening of infrastructure under UGCCPE grants. 5. Strengthening of career guidance, placement cell and conducted various skill development workshops.

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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	Achievements/Outcomes
Strengthen Academic activities	Published sixty five research papers in journals of national and International repute with good impact factor.
Implement the UGCCPE scheme in	New Equipment introduced in labs.

upgradation of infrastructure	
Promoting research activities among teachers and students	Published sixty five research papers in journals of national and International repute with good impact factor. Published thirteen book chapters/conference proceedings. eight Ph.D degrees were awarded during the year.
Implement the UGC-CPE scheme in promoting research culture among students	Conducted several skill development workshops for students and teachers
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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	2019
Date of Submission	03-Aug-2019
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 curricula prescribed by the Tumkur University for the Bachelor of Science, Mater of Science and Bachelor of Vocation programs are adopted in the institution. The institution has well-structured 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 the meeting of heads of all the departments 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 prepare them for their next level of education as well as acclimatize them with the curricular and co-curricular structures of the programs. Bridge Course also

inducts fresher into the collegiate atmosphere, familiarises them with the vision, mission, goals, objectives, rules of the college and attempts to make them overcome their reservations. 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 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 sports 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.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
NIL	NIL	Nil	Nil	Nil	Nil

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	NIL	Nil
No file uploaded.		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BSc	PCM PMCs PME CBZ CBBt CZMB CZBt	01/07/2016
BVoc	Hardware Technology and Networking	01/07/2016
MSc	Chemistry	01/08/2014
MSc	Environmental Science	01/08/2014
MSc	Physics	01/08/2014

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	0	0

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
NIL	Nil	Nil
No file uploaded.		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BSc	Computer Science	25
BVoc	Hardware Technology and Networking	5
MSc	Chemistry	52
MSc	Environmental Science	8
No file uploaded.		

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	No
Parents	No

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>The feedback mechanism prevailing in the institution depends upon a well-functioning feedback system which is launched and implemented in accordance with integrated loop mechanism. The College has been practicing a 360 ° feedback system accommodating the stake holders including staff, students and alumni to help the institution to improve its effectiveness in curriculum delivery. The structured feedback forms (print versions) are circulated to student, teachers and alumni. The forms contain questions (of quick response type and a short descriptive question) regarding the effectiveness of curriculum and its delivery. The responses are analyzed by the qualitative treatment of data with the help of computer programs and appropriate conclusions are drawn.</p>

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BSc	All	520	868	488

	combinations: PCM, PME, PMCs, CBZ, CBBt, CZBt, CZMb			
BVoc	Hardware and Networking	60	19	19
MSc	Environmental Science	35	29	11
MSc	Chemistry	57	186	57
MSc	Physics	57	196	50
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number 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 courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1308	211	100	4	15

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
119	119	16	16	0	100

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Mentorship is one of the best practices of our college. The faculties of the college monitor the overall development and learning of the student through this practice. As per the practice a batch of 20 students is allotted to every faculty in the beginning of the year. The monitoring committee undertakes the job of formation of batches of mentees, distribution of these batches and giving orientation to all the faculty members in the beginning of the academic year. The mentors meet the students regularly and discuss with them several aspects of their learning. The mentors listen to their problems and provide guidance individually or in group. For the needy students a personal counselling is also done on the regular basis. The advanced learners are provided with additional competitive tools for learning. The slow learners, problematic and disadvantaged learners are identified and given not only counselling but also suggestions to cope up with their academic problems and to improve their performance. If any of the students have any sort serious personal problem they are referred to the student counselling centre where a team of trained faculty provide them the needed personal support. In case if the mentor finds out any kind of health issue the students are referred to suitable healthcare facility. The mentors also monitor the development and competencies of the students and maintain an academic progress document.

During parent teacher interactions, the mentors discuss the same with the parents. Further this document includes the sports and extracurricular activities of the students thereby an overall development of the students is documented. The mentors meet the parents at least once in each semester in this regard. 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

Number of fulltime teachers

Mentor : Mentee Ratio

institution		
1519	119	1:13

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
77	77	0	0	30

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. Rashmi Hosamani	Assistant Professor	Fellowship, Indian Association of Applied Microbiologists
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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BSc	1	1	24/11/2018	01/07/2019
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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)

As our college is a constituent college of Tumkur University, the college 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)

<http://ucst.ac.in/agar.php>

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	581	415	71.42
2	BVoc	Hardware and networking	18	17	94.44
3	MSc	Physics	46	41	89.13
4	MSc	Chemistry	38	21	55.26
5	MSc	Environmental Science	22	22	100

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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)

<http://ucst.ac.in/agar.php>

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	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Nil	Nil	Nil	0	Nil

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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		

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Best oral presentation	Poornima D	Kuvempu University	22/02/2019	Faculty
Fellowship	Rashmi	Indian	11/07/2018	Faculty

award (FIAAM)	Hosamani	Association of Applied Microbiologists, Tamil nadu	
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
nil	nil	nil	nil	nil	Nil
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Chemistry	8

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Chemistry	2	0.5
International	Chemistry	38	2.8
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Chemistry	3
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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 nanoparticle s: Its effect on cocoon and silk traits of mulberry silkworm	RR Patil, H Raja Naika, SG Rayar, N B alashanmug am, Vivek Uppar, Atanu Bhat tacharyya	Particulate Science and Technology pp.	2018	4	University College of science, Tumkur University, Tumkur	9

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3.3.6 – h-Index of the Institutional Publications during the year. (based 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
Corrosion Inhibition of 316 Stainless Steel in 2M HCl by 4-[4-(dimethylamino) benzylidene]amino-5-methyl-4H-1,2,4-triazole-3-thiol	Subramanya Gopal Hegde, Lokesh Koodlur, Vijayakumar G. Revanasiddappa., Suchetan Padimule, Suman Y Reddy, Atanu Ghoshal and Nagabhusan H	Synthetic Communications (Taylor and Francis)	2018	16	6	University College of Science, Tumkur University, Tumkur, 572 103, India

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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	0	7	0	4
Presented papers	4	9	1	0
Resource persons	0	7	2	2

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3.4 – Extension Activities

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
Placement Opportunities for Microbiology students	Microbiology	3	60

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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students
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			Benefited
0	Nil	Nil	Nil
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharat	Microbiology	Swachh Bharat	3	60
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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
0	Nil	Nil	Nil
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
0	Nil	Nil	Nil	Nil	Nil
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
0	Nil	Nil	Nil
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
0	0

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing

Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
e-Lib i-Next (Web version)	Fully	22.04.30	2017

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	44893	3792358	0	0	44893	3792358
Reference Books	5362	1172851	0	0	5362	1172851
e-Books	97000	43315	0	0	97000	43315
CD & Video	306	12100	0	0	306	12100
Library Automation	1	194877	0	0	1	194877
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Nil	Nil	Nil	Nil
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	88	22	25	10	0	4	15	1	37
Added	0	0	0	0	0	0	0	0	0
Total	88	22	25	10	0	4	15	1	37

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

1 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Nil	Nil

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
30.5	14.35	5.5	3.8

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

For the smooth and efficient functioning of any institution it is important that various stakeholders feel in terms of adequate infrastructure and human resource assistance. These aspects require review, maintenance and upgradation from time to time. Hence, it is important that the institution has a maintenance procedure that acts as a guiding framework for the same. The procedure encompasses various infrastructural and human resource aspects of the institution. It focuses on framing and upkeeping of a transparent system where responsibilities of maintenance is clearly delegated and fulfilled for the efficient functioning of the organisation. All stakeholders-students, teachers, staff, parents, Principal and Registrar of Tumkur University are involved to various degrees in this matter. The maintenance procedure has the following areas and aspects like 1. Maintenance, repair work, upgradation of the building i.e., the classrooms, staff rooms, office areas, seminar hall, library, labs etc. 2. Electrical maintenance consisting of-lights, fans, wiring etc.. 3. Equipment maintenance i.e., the upkeep of computers, printers, photocopying machines, scanners, projectors, speakers, sports equipment etc.. 4. Water maintenance includes upkeep of taps, plumbing, drainage system, rain water harvesting, motor, borewell, sump etc.. 5. Space management consists of management of space in terms of availability of various infrastructure such as halls, auditoriums and galleria for various programmes organised in the college. 6. Technology maintenance: This includes management of telephone, internet, fax and so on. 7. Health and Safety Compliance consists of waste management, maintenance of campus cleanliness of the campus. 8. Emergency Protocols includes methods to maintain fire safety and provision of first aid and security. Allotment of responsibility of the above mentioned things are taken care by the Head of the Institution, all HoDs, and IQAC coordinator and are responsible for ensuring the maintenance of all aspects of the institution in terms of approval of work, planning and overseeing. Staff, students and parents are welcome to bring to notice any work required in terms of maintenance of campus. It is the responsibility of all stakeholders to play their role in maintaining the campus. The Documents are to be maintained by the administrative staff regarding the status of infrastructure, maintenance, repair work and any contracts, approval copies etc.

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Nil	Nil	Nil
Financial Support from Other Sources			
a) National	SC/ST/BC and Jindal	405	3012505
b) International	NIL	Nil	Nil
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
bridge course	25/06/2018	650	Nil
skill development	16/07/2018	100	Nil
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Unnati placement training	Nil	50	Nil	Nil
2019	special lecture on Disha entrepreneurship	Nil	350	Nil	Nil
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Wipro	40	4	Nil	Nil	Nil
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	235	B.Sc	M.Sc	Tumkur university/myso re universit y/kuvempu un iversity/ban galore unive rsity/manday university/k arnataka uni versity/chen nai university.	M.Sc/B.Ed/ MCA/MBA
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
NET	1
SLET	1
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Nil	NA	Nil
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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)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Nil	National	Nil	Nil	Nil	Nil
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Response Student union is an active student organization, dedicating its time and resources to give the student community an opportunity and a voice to students creative energy. It fosters leadership qualities, social and cultural values and good hobbies. Student council is formed through election to the student representatives from each class. The elected representatives choose coordinators from the final year classes. These coordinators become nominees in the university level students council. The students representatives are involved in the exclusive Students Fora, functional and statutory committees. The Fora are: Debate forum, Crafts forum, Quiz forum, Communicative English fora, Event management fora, Writer'sfora, Legal and civic awareness fora,

Readers Fora, Cartoon, Drawing and Painting fora, and Photography and Media fora. Apart from these platforms, all the departments have subject associations to conduct activities of the respective departments. Various activities like seminars, preparation of wall magazines, workshops are conducted involving and sharing responsibilities on student members of department associations. The college has various Functional/statutory committees to perform academic, curricular, co-curricular and extra-curricular activities. Student representatives and coordinators are appointed as members of committees.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services 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. Alumni 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. The activities of associations are: Alumni Committee: This committee act as a bridge between college and alumni associations. Conduct meetings for effective implementation of alumni engagement in the campus and conducted four 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:

150

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

15000

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni committee have been conducted meeting on 22/12/2018 and in that, committee members decided to invite achievers of this college and distribute prizes for rank holders of previous year as a part of motivation. In 25/12/2018, 240 alumni members gathered and felicitated, disturbed prizes for achievers and rank holder respectively

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)

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 grievance and

redressal cell, women empowerment cell, placement cell, Women's Development Cell etc, and various 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.

6.1.2 – Does the institution have a Management Information System (MIS)?

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 andBOE 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 Scholarly Content (NLIST)" 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 met 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 fulfill the needs of institutions. Teaching staff is motivated to carry out 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 Karnatakastate.

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

E-governance area	Details
Planning and Development	To enable the office staff to work on computer, computer training was given to them. They were taught how to use net and send the email to keep in touch with other colleges, Office of higher education, education department, University, UGC, NAAC, etc.
Administration	Presently office related correspondences with Pay bill and other 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 salaries of teaching and non teaching staff are 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 at 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 deprived

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 to Karnataka state government.

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 soft copies and in the form of emails.

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
2018	Nil	Nil	Nil	0
View File				

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)
2018	Nil	Nil	Nil	Nil	Nil	Nil
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
Refresher Course	8	09/02/2018	28/02/2018	30
View File				

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

Teaching	Non-teaching

Permanent	Full Time	Permanent	Full Time
0	0	0	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>The staff association established which is an instruments that brings the members of different interests under one roof. Availability of OOD, SPCL, EL, Maternity, Paternity, medical, study are some of the leave facilities available for the staff. Institution also encourages the faculty to persue higher studies like Ph.D, post doctoral studies under FIP.</p>	<p>The staff association established which is an instruments that brings the members of different interests under one roof. Availability of OOD, SPCL, EL, Maternity, Paternity, medical, study are some of the leave facilities available for the staff.</p>	<p>The mentor-mentee system started to address the problems of the students and under each mentot 15students were alloted. Remedial classes conducted for the students weaker in the subject.</p>

6.4 – Financial Management and Resource Mobilization

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

<p>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.</p>
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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	Nil
View File		

6.4.3 – Total corpus fund generated

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	Tumkur University
Administrative	Yes	Tumkur University	No	Tumkur University

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

<p>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</p>
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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 to organize conferences, workshops, seminars etc.
- Faculties are encouraged to undertake minor major research projects.
- Also teachers are encouraged to attend professional development trainings like orientation course, refresher course and FDPs.

6.5.4 – Post Accreditation initiative(s) (mention at least three)

- Career Counselling Centre to prepare the students for various competitive examinations.
- To enhance student for capacity building, soft skills and employability skills.
- Placements.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	No
c) ISO certification	No
d) NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Nil	Nil	Nil	Nil	Nil
View File					

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Swaraksha program for women	20/07/2018	20/07/2018	226	15
International Women's day	08/03/2019	08/03/2019	120	50
Mahila dourjanya thade : Arivu & Koushalagalu	31/07/2018	31/07/2018	130	140

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
Power requirement met by renewable energy sources : Nil Total power Requirement in KW :105.0 renewable energy sources : Nil renewable energy generated and used : Nil Energy supplied to the grid: Nil Total lighting equipments in KW: 7.89

24.135 Percentage lighting through LED bulbs:7.89 Percentage lighting through other sources: Nil

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	No	Nil
Ramp/Rails	Yes	Nil
Braille Software/facilities	No	Nil
Rest Rooms	Yes	Nil
Scribes for examination	Yes	Nil
Special skill development for differently abled students	No	Nil
Any other similar facility	No	Nil

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	1	1	05/06/2018	1	World Environmental day	Environmental issues	140
2018	1	1	21/06/2018	1	International yoga day	Importance of yoga	125
2018	1	1	02/10/2018	1	Swachha Bharath Abhiyana	Cleanliness and maintenance of hygiene	150

[View File](#)

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
KCSR book: handbook	Nil	https://sjce.ac.in/wp-content/uploads/2017/01/KARNATAKA-CIVIL-SERVICE-RULES.pdf
UNIVERSITY STATUES	Nil	http://www.tumkuruniversity.ac.in/index.php?/boxmenu/statutes
Code of Conduct (Hand	Nil	https://ucst.ac.in/uplo

books)

ads/2023/may/UCST20College20Code20of20Conduct2003_06_2023.pdf

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Independence Day	15/08/2018	15/08/2018	200
Gandhi Jayanthi	02/10/2018	02/10/2018	150
International Yoga day	21/06/2018	21/06/2018	125
Ambedkar Jayanthi	14/04/2019	14/04/2019	200
Republic day	26/01/2019	26/01/2019	200
International women's day	13/03/2018	13/03/2018	170
Swachha Bharath abhiyan	02/10/2018	02/10/2018	100
Mathru bhasha divas	21/02/2018	21/02/2018	300
National Science Day	28/02/2018	28/02/2018	1000
Voter's day	23/01/2019	23/01/2019	800

[View File](#)

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Solid waste management: All degradable solid waste generated in the college is collected every day and dumped in to dumping pit for decompose. Decomposed organic manure is utilized for gardening as organic manure. 2. Liquid waste management: It is necessary to treat effluent/waste water, hence our college is having good facility to channel waste water to be discharged from all laboratories to underground channels for disposal in a properly manner. Sewage waste is directed to separate closed pits for decompose. 3. E-waste management As per the government policies we adopt 3R (Reduce, Reuse and Recycle) methodology. Printer Cartridges are generally refilled, wherever refilling is not possible, the cartridge is returned to the manufacturer. All damaged or non-functional electronic/electrical materials (e-waste) were returned to the manufacturer. UPS batteries are exchanged for a nominal cost with the vendor for the new batteries/purchases. 4. Rainwater harvesting structure and utilization in the campus As such there is no such rain water harvesting system directly in the campus. But the college has got a large catchment area. However the rain water received on the top floor of the building in the college campus and the college hostels has been drained through the pipe lines. The rain water that is falling on the roof top of the college campus and hostel campuses are been diverted to the garden areas of the respective places. We have plan for making the use of the rain water in the coming years by requesting the government agencies to set up or provide funding for proper utilizations system for the entire campus by rainwater harvesting. 5. Green practices Students and staff using a) Bicycles b) Public Transport • Most of the local students of Tumkur residences of nearby areas are coming by walk or on bicycles. Even some of the teaching and non-teaching staff members of the adjacent areas of the college are coming by walk/ on bicycles and are contributing to green practices • Students who come from different Taluks of Tumkur are day scholars, they use KSRTC buses and take the monthly passes from KSRTC and are effectively using the public transport system and are contributing to the green practice.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Experience-based science education for holistic growth 2. Skill Development Workshops: 1. Experience-based science education for holistic growth “Education cannot be effective unless it helps a mankind open up himself to life”. University College of Science believes that higher education institutions have the responsibility in developing and spirit of enquiry to all its stakeholders as well as the community. It can only be achieved via sustained, devoted effort on the part of faculty and students to foster the duty of inspiring, motivating, and promoting scientific curiosity, information sharing, and innovation within the community and in society. One way to accomplish the aforementioned is by conducting/demonstrating intriguing scientific experiments via science popularization programs targeted at high school students. The school administration requested to conduct more activities in the future because the activities were well-received by the students in high schools. Besides this, faculty are actively engaged in stimulating student creativity by assisting graduate and postgraduate students in their research in addition to creating and disseminating intriguing scientific notions. The college also actively conducted various science activities to enhance science temperament among students and faculties. Departments of college organized science quizzes, model-making projects, and special/invited lectures on the occasion of science day, world environmental day so on. The aforementioned exercises unequivocally show that teaching and learning are ongoing processes for both faculty and students. The college carries out various activities on science popularization, particularly for the students and people in rural areas on various topics. This program helps to create interest and excitement amongst school students to take up Science subjects as their career and also build capacity by engaging young students in the scientific method of analysis developed by hypothesis, experiment, analysis, and conclusions. Activities like experiments demonstrations, training, Seminars, exhibitions, competitions etc. are carried out in various parts of the State. The activities to be conducted will include the quiz, essay competition, march, game, and painting competition. National Science Day is celebrated in college to popularize the benefits of scientific knowledge and practical appropriation. Every year according to the world science day theme all the forth programmes and activities are based on that theme. Besides these activities, popular lectures, Seminars, workshops so on science were organized. Intra-quiz competitions were conducted for different combinations of students to augment science knowledge, logical aptitude and encourage them to take up higher education and research in science for the betterment of society. A science exhibition is a wonderful tool that engages students in learning new facts and inventions with a zeal of interest. An exhibition is a platform for the students to work together in groups. This gives the opportunity for the students to develop social and moral skills. In the college, every year a science exhibition was organized by all the departments. In the exhibition students enthusiastically participated to showcase their talent in making science models such as experiments, working models, and rare species information execution. This kind of exhibition gives countless opportunities for exhibitors to connect with prospects through face-to-face communication and engagement. Hence Science popularization programs hold great significance for the Indian Science and scientific community and also bring an opportunity to focus on issues related to science center stage.

2. Skill Development Workshops: University College of Science, Tumkur is one of the prestigious and prominent colleges in Karnataka. In the 21st century, the institute gives importance to science and technology-based skills programs for faculties and students. In the initial stages of formal education to students skill development programs and workshops are helping them to bloom in the science field. Presently one of the most effective ways of addressing skills

and preparing our youngsters for the competitive world is the first preference of our college. In the vision of this, our college has conducted various skill development workshops in the respective departments to help the students to develop the competitive skills required to thrive in this complex competitive world. With regard to this, the department of Zoology organized a workshop on "Apiculture-Rearing techniques". Here students learned about Beekeeping.

Beekeeping is an agro-based enterprise, which farmers and entrepreneurs can take up for additional income generation. The collection of honey from the forest has been in existence for a long time. The growing market potential for honey and its product has resulted in beekeeping emerging as a viable enterprise. It requires less time, infrastructure, and investments. Students will start their own apiary as additional income. In skill development workshop on "skill development techniques in molecular biology". students benefitted with the special lecture about the development of oestrogen-free products and the skill development techniques of molecular biology. They have taken the information about techniques of molecular biology like gel-electrophoresis, PCR, and Blotting techniques, information regarding genetic engineering, gene therapy, and cell-based assays, two types of cell lines-anchorage dependent cell lines and adhering of independent cell lines, phenol ninhydrin adducts.

The Chemistry department organized a "skill development workshop on Spectroscopic techniques". Spectroscopic techniques are used to study the interaction at the molecular scale one such technique is nuclear magnetic studies (NMR) and this study gives information about the interaction between secretion and polymer proton or carbon. Students learned about to identify and analyse compounds based on their interaction with different wavelengths of the electromagnetic spectrum. Another skill development workshop titled 'Chromatographic Techniques' gave training on the extraction and purification of different compounds and it also helped the students in their research works.

Two more workshops "skill development workshop on spectroscopic" and 'separation techniques for organic compounds/molecules' provided knowledge in analyzing, identification, and characterization of different compounds like nanoparticles, organic compounds, metabolites, and co-ordination complexes, etc. In the workshop on Stereochemistry (Optical rotation), the importance of stereochemistry in organic compounds, biological systems, and in pharmaceutical industries for the development of drugs were highlighted and students grew up their chemistry knowledge. The Microbiology department conducted a skill development workshop on "Haematology and diagnosis of infectious disease". Haematology is very much helpful in specimen tests which include inspection of blood (whole blood, serum, plasma), body fluids (urine, CSF, gastric fluids, and sweat), and body specimens (sputum, stool, tissue biopsy). In this program, our students got hands-on training which create a good awareness of the techniques of the Haematology. In the skill development program on "pre-clinical microbial studies in drug discovery", the program clear demonstrations were given to the students. Deciding whether a drug is ready for clinical trials which is the so-called move from bench to bedside involves extensive pre-clinical studies that yield preliminary efficacy, toxicity, pharmacokinetic and safety information. Department of Botany conducted workshops on different themes 'Extraction, Isolation, and purification of phytoconstituents program enlightened students about extraction and purification, 'An ecological phenomenon an overview' event created awareness on the ecosystem and ecological occurrence of the plant kingdom. In the perception of our environmental consciousness workshop was done on Know your neighboring plants. The workshop on "Advanced water waste management" provided information about water, water body maintenance, and waste water treatment using different plants. The botany department conducted a workshop by experts in plant taxonomy for students on the topic "Dichotomy V/S Polyclave in Taxonomy", this workshop created knowledge about the identification, and classification of plants based on the training students did identification of different plants in Devarayanadurga

reserved forest. Department of Biotechnology organized various workshops on the topics of CPR, immune techniques, nutrition for health, Biotechnological tools, and Cancer biology. These workshops give awareness about trends in Biotechnology research, microbes interaction in agriculture, and applications of Biotechnology in medicine. The current booming topic of genetically modified crops - pros and cons were well highlighted. In the present year college adopted best practices of promotion of science and technology.

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

<https://ucst.ac.in/>

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 fifty-five 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 programmes. 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 state 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 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 related issues, creation of green and plastic free campus.