

# **SELF STUDY REPORT**

**FOR**

**3<sup>rd</sup> CYCLE OF ACCREDITATION**

**UNIVERSITY COLLEGE OF SCIENCE**

**B. H. ROAD, TUMKUR UNIVESITY**

**572103**

**[www.ucst.ac.in](http://www.ucst.ac.in)**

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**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

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# 1. EXECUTIVE SUMMARY

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## 1.1 INTRODUCTION

University College of Science erstwhile Govt. Science College/Govt. College, Tumkur was established in 1940 to cater the higher education needs of the rural areas of Tumkur. The college was taken over as a constituent college of Tumkur University in 2010. The pioneering college has the historical reputation of spreading science education in the region for the last seventy seven years. The college has been able to create a conducive atmosphere for learning by constantly engaging with students, parents and other stakeholders. The role of teachers in catering to the educational requirements of the students is highly commendable. Constant monitoring of progress of the students by mentors creates a sense of community in the college. Well-equipped laboratories and the library fulfills the curricular requirements of the student. Co-curricular activities like sports, N.S.S., N.C.C., Red Cross attempt to bring out the latent talent, nourish and promote the all-round personality development of the students. It is a matter of pride that teachers are highly qualified, proficient and each teacher is constantly engaged in research activities like undertaking projects, organizing and participation in workshops, seminars and conferences at national and international levels that inspire and encourage the students to engage in research. The above overall traits contributed to the reputed institution in becoming a centre for promoting science education. UGC has recognized its accomplishments and future potential through the award of “Center of Potential for Excellence”.

### Vision

To achieve academic excellence in Higher Education & Research.

### Mission

To inculcate and nurture young minds to evolve an effective mechanism for greater participation of all the stakeholders of University College of Science. To develop & 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.

## 1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

### Institutional Strength

**Well qualified teaching fraternity:** The teachers with inspired sense of discipline are highly qualified and experienced to impart science education to undergraduate, postgraduate students and doctoral scholars.

**A robust work culture:** All lectures/labs are held. Work begins and ends on time. Students are accorded personal attention, based on need and willingness to be helped.

**Transparency:** The College is committed to total transparency in admissions and appointments.

**Educational Infrastructure:** The College hosts ample infrastructure for the smooth conduct of academic activities. It has sufficient number of class rooms, laboratories and auditoria.

**Research:** Teachers and students are actively engaged in research activities like undertaking projects, publishing their research, organizing and participation in workshops, seminars and conferences at national and international levels.

**Excellent library and lab facilities:** The facilities the College offers are among the best that any college offers in the region.

### **Institutional Weakness**

We are, financially, not a rich institution. Within a confined environments of low to very low fees structures, moderate support from the University, reduced research funding by the state has the effects on its financials. At the same time, we are also proud of our austere and Spartan existence.

While the facilities we have are excellent, we need additional facilities like better equipped teaching and research laboratories, sophisticated science instrumentation facility, a well-equipped, automated office, and so on.

### **Institutional Opportunity**

**Sustained demand for enrolment:** Despite large preference for professional courses among student community, the college has always attracted sustained large number of applications for enrolment.

**Reach:** The college campus is located at the heart of the city and convenient for students, teachers and other stake holders to reach easily.

**Beautiful campus:** The campus is wide and beautiful with large scope for further improvements as the coverage of buildings are limited.

**Upgradation:** The College is well poised to take advantage of the various scheme on offer from the UGC for development and upgradation of facilities. It is at the present time doing all it can to emphasize a research culture at the undergraduate level.

**Scope for improvement:** With its young and energetic teachers in its folds, the institution can only become more and more relevant as years go by.

### **Institutional Challenge**

- Most of the students are from rural background and our medium of instruction being English, it is a relentless challenge to teach them in English.
- The challenge to add significantly to its infrastructure and to add to the basket of courses it offers
- To maintain the balance between educational technology and human stature.
- With limited appointment of permanent teachers, it needs to foster a deep sense of commitment in the

guest faculty appointees

## **1.3 CRITERIA WISE SUMMARY**

### **Curricular Aspects**

The curriculum prescribed by the Tumkur University for the Science Undergraduate Programs is 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 adopted 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.

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.

### **Teaching-learning and Evaluation**

Transparency and systematic mechanism is adopted in the admission process. The College complies with the Government Reservation Policy for admissions and gives preference to economically and socially backward rural meritorious students. The omnibus merit list of eligible students is announced and students are admitted through counseling.

Bridge Course inducts freshers into the collegiate atmosphere, familiarises them with the vision, mission, goals, objectives, rules of the college and averts their fear of English. The eligibility norms of the UGC are followed by Tumkur University for the appointment of competent teachers. Most of the faculties have acquired Ph.D. degrees and others are pursuing Ph.D. The vacancies and additional workloads are filled by appointing guest faculties. Preference is given to NET/SLET/Ph.D. candidates for appointment of guest faculties.

Personal attention and psychological guidance of the mentors smooth away the academic and personal problems of students and direct them towards progress. All the teachers use innovative and participative teaching-learning techniques such as power point presentations, group discussions and class room seminars by students.

The fair and transparent evaluation process and publication of results in website have made semester end

examinations and evaluation process effective and transparent. The grievances of the low achievers are attended to and resolved by the HoDs and Grievance Redressal Cell by recommending them for revaluation / reappearance of examination. Curriculum development, teaching methodology, evaluation process and reforms and the feedback from the students are instrumental in bringing out the necessary changes in the practices of the college for further improvement.

### **Research, Innovations and Extension**

Institution motivates faculty members to submit research proposals to funding agencies, initiating the teachers to organize the conferences/seminars/workshops. In the past five years our institution faculty members received research grant of Rs. 170 lakhs (Rupees one hundred seventy lakhs) from the government funding agencies and Rs 64 lakhs (Rupees sixty four lakhs) by the non-government sources. 18 faculty members are recognized as research guides, 7 students completed their PhD degree and 63 students pursuing PhD. Our institution faculty members published 350 research papers in the national and international journals 300 research papers in the proceedings of the national/international conferences. Faculty members published 6 Books/book chapters with ISBN numbers and regularly organizing and conducting number of national and state level seminars and conferences.

College conducts various extension/outreach activities, in association with government and/or recognized bodies such as Red Cross Society and Sri Ramakrishna Ashram. Students and faculty members are encouraged to attend programs/special camps like blood donation camp, awareness program, youth festival, National integration camp and trekking camp.

Special camps have been organized by the NSS in which student participants and faculty NSS officers stay together, for a week, and take part in developmental activities in the vicinity all through the day.

Every year, NCC cadets have taken part in various kinds of activities such as drills, weapon training, map reading, firing, etc. Further, some of the chosen cadets have participated in integration camps, battalion camps, leadership camps, army attachment camps and Republic day parade.

### **Infrastructure and Learning Resources**

The college is situated in the heart of Tumkur city and is spread over a vast area of 68 acres. Since the institution is continually expanding in its physical resources with the addition of every new course and program. The college campus is known for its greenery and tranquility, and is ideally suited for learning in serene environment.

The teaching learning facilities are adequate as to compliment the total strength of the college and faculties are making best use of the infrastructure available to make students more competent today's world.

The required infrastructure for co-curricular and extra-curricular activities like sports - outdoor and indoor games, gymnasium, auditorium, cultural activities, health and hygiene etc. is provided by the college. Various sports facilities are available to the students.

The Library and Information Center located in the College premises for the easy access and is rendering quality services with 50,000 collection. Library has access to e-resources through N-LIST from INFLIBNET

and to IEEE Communication Society Digital Library. Library in-house activities and services are fully automated with the **use of e-Lib iNext** Integrated Library Management Software, barcode technology is used for automated circulation and RFID implementation is under process. The sufficient numbers of computers are provided to fulfill ICT need of the college. The campus is networked with LAN. LCD projectors, internet facility, printers, photocopying machine and scanner are made available.

### **Student Support and Progression**

The College provides its updated prospectus at the commencement of every academic session. Bridge course conducted for entry in students at the degree level as well as postgraduate level about the department, laboratories, course subjects and opportunities for their further studies. Regular interaction between students and the faculty mentors help to identify and understand student issues and counseling will be done.

To ensure the success of the students in academics, the institute monitors the academic progress of the students on continuous basis by notification of their performances and attendance in the department notice board.

The institute conducts soft-skill development, career counseling, and personal enhancement sessions for the students by inviting external experts. Remedial classes for the students of SC/ST category were conducted. Special Lectures were organized to improve language skills under the scheme. Remedial classes conducted even for academically weaker students.

Placement cell provides pre-placement guidance to the students and coordinates placement activities. The Women's Cell effectively works to provide guidance and security to Girls students in the campus. There are anti-ragging and students' grievance cells exist in the College campus. Alumni Association is effectively working.

College encourages student participation in co-curricular and extra-curricular activities by providing the required support. Sports and extracurricular activities were organized both for Girls and Boys. The NCC and NSS units encourage to participate in relevant activities. The students participate in intra- and inter-university sports tournaments and cultural competitions. They have also won several prizes in such tournaments and competitions.

### **Governance, Leadership and Management**

Our institution running par with vision to Achieve Academic Excellence in Higher Education and Research. The vision, mission and goals of the institution are achieved through strategic action plan, effective leadership and participative decision-making process. The institution takes great care in ensuring that all the activities of the institution are in tune with the stated goals. The College administration is carried out by the Principal with the help of various bodies including the office, the college council, the governing council and the staff council. Principal delegates duties and responsibilities to these bodies for carrying out the administrative activities. Our institution effectively implemented e-governance in the areas of planning & development, administration, student support and examination. Various cells, bodies and committees are effectively working for smooth functioning and betterment of the institution. Our institute encourages the teaching faculty to participate in orientation programs, Refresher course, and short term courses. Institution conducts financial audits regularly with the Local Inspection Committee of Tumkur University and regularly monitored by the Finance department of Tumkur University. IQAC is an integral and indispensable part of the institution. It is instrumental in

developing perspective plans and conducts evaluative processes. It plays a major role in devising the strategic plan. A network exists between IQAC and various committees that are constituted for specific purposes. IQAC of the institution conducts regular meetings with every department where it reviews the operations and processes practiced. Apart from this the institute is submitting its AQARs regularly and well in time to NAAC.

### **Institutional Values and Best Practices**

To develop institutional values among the students we at our institution promote the patriotism in students by singing of Naada Geethe (state anthem) and National Anthem in morning assembly. We celebrate the National festivals and anniversaries of National leaders to inculcate the values of truth, non-violence and peace. Student counseling cell and Women grievance cell are actively involved in solving issues related home affairs, study related problems, relation issues etc among students and faculties. The institute promotes divyangajan students in all respects. Institute is very conscious about maintaining of green and clean environment.

The institute has taken the initiative of “**Promotion of Research and Extension Activities**” and “**Academic Excellence**” as the two best practices. Faculty members have actively involved in research by setting up their own research laboratory and also involved in collaborative research through MOUs with other institutions. The institute has supported the faculty members to take-up the post-doctoral fellowships and faculty development programmes. Ee have published quality research articles in reputed journals and promoted the faculty to complete their Ph.D degrees. College has actively taken up the work of Swachh Bharath Abhiyaan at various nearby villages. Periodic monitoring of attendance has helped the students to be regular. Internal assessment tests, assignments and seminars helped the students to prepare well for the final examinations. Every successive year results have improved and many ranks have been bagged by the institution. Students were promoted to develop experimental and soft skills though the application of the Internet and ICT based methods.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	University College of Science
Address	B. H. Road, Tumkur Univesity
City	Tumkur
State	Karnataka
Pin	572103
Website	<a href="http://www.ucst.ac.in">www.ucst.ac.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal(in-charge)	Eswara H. Y.	0816-2260220	9886465964	0816-2270719	principalucst@gmail.com
IQAC Coordinator	Mukundappa B. L.	0816-	9844321868	0816-	blmukundappa@gmail.com

Status of the Institution	
Institution Status	Constituent

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	
Date of establishment of the college	01-01-1940



**University to which the college is affiliated/ or which governs the college (if it is a constituent college)**

State	University name	Document
Karnataka	Tumkur University	<a href="#">View Document</a>

**Details of UGC recognition**

Under Section	Date
2f of UGC	25-04-1992
12B of UGC	01-07-1994

**Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)**

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
No contents				

**Details of autonomy**

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	Yes
If yes, has the College applied for availing the autonomous status?	No

**Recognitions**

Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	Yes
If yes, date of recognition?	27-05-2016
Is the College recognized for its performance by any other governmental agency?	No

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	B. H. Road, Tumkur University	Urban	69.34	13785.9

## 2.2 ACADEMIC INFORMATION

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BSc,Department Of Chemistry	36	XII	English	30	0
UG	BSc,Department Of Chemistry	36	XII	English	160	151
UG	BSc,Department Of Physics	36	XII	English	80	79
UG	BSc,Department Of Biotechnology	36	XII	English	30	30
UG	BSc,Department Of Zoology	36	XII	English	30	30
UG	BVoc,Department Of Computer Science	36	XII	English	50	12
UG	BSc,Department Of Mathematics	36	XII	English	30	0
UG	BSc,Department Of Electronics	36	XII	English	60	58
UG	BSc,Department Of	36	XII	English	60	60

	Microbiology					
UG	BSc, Department Of Botony	36	XII	English	80	76
PG	MSc, Department Of Chemistry	24	BSc	English	56	55
PG	MSc, Department Of Physics	24	BSc	English	56	56
PG	MSc, Department Of Environmental Science	24	BSc	English	30	12
Doctoral (Ph.D)	PhD or DPhil, Department Of Chemistry	36	MSc	English	42	41
Doctoral (Ph.D)	PhD or DPhil, Department Of Physics	36	MSc	English	8	4
Doctoral (Ph.D)	PhD or DPhil, Department Of Environmental Science	36	MSc	English	14	14
Doctoral (Ph.D)	PhD or DPhil, Department Of Biotechnology	36	MSc	English	2	2

### Position Details of Faculty & Staff in the College

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				77			
Recruited	0	0	0	0	0	0	0	0	35	21	0	56
Yet to Recruit	0				0				21			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				83			
Recruited	0	0	0	0	0	0	0	0	40	43	0	83
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>						
	<b>Male</b>		<b>Female</b>		<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government						34
Recruited	1		3		0	4
Yet to Recruit						30
Sanctioned by the Management/Society or Other Authorized Bodies						0
Recruited	0		0		0	0
Yet to Recruit						0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				1
Recruited	0	1	0	1
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

### Qualification Details of the Teaching Staff

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	2	0	0	0	1	0	3
Ph.D.	0	0	0	1	1	0	19	5	0	26
M.Phil.	0	0	0	1	0	0	0	5	0	6
PG	0	0	0	0	2	0	11	6	0	19

<b>Temporary Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	3	0	0	3
M.Phil.	0	0	0	0	0	0	1	1	0	2
PG	0	0	0	0	0	0	36	40	0	76

<b>Part Time Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	2	0	0	2
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	2	5	0	7

<b>Details of Visting/Guest Faculties</b>					
<b>Number of Visiting/Guest Faculty engaged with the college?</b>	<b>Male</b>		<b>Female</b>		<b>Total</b>
	0	0	0	0	0

**Provide the Following Details of Students Enrolled in the College During the Current Academic Year**

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
Doctoral (Ph.D)	Male	52	0	0	0	52
	Female	32	0	0	0	32
	Others	0	0	0	0	0
UG	Male	450	0	0	0	450
	Female	830	0	0	0	830
	Others	0	0	0	0	0
PG	Male	76	0	0	0	76
	Female	163	0	0	0	163
	Others	0	0	0	0	0

<b>Provide the Following Details of Students admitted to the College During the last four Academic Years</b>					
<b>Programme</b>		<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>
SC	Male	20	30	24	39
	Female	22	33	30	45
	Others	0	0	0	0
ST	Male	5	6	4	11
	Female	3	7	7	10
	Others	0	0	0	0
OBC	Male	40	22	24	46
	Female	75	112	91	177
	Others	0	0	0	0
General	Male	12	100	84	130
	Female	20	102	86	132
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
<b>Total</b>		<b>197</b>	<b>412</b>	<b>350</b>	<b>590</b>



### 3. Extended Profile

#### 3.1 Programme

Number of courses offered by the institution across all programs during the last five years

Response : 17

Number of self-financed Programmes offered by college

Response : 0

Number of new programmes introduced in the college during the last five years

Response : 5

#### 3.2 Student

Number of students year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1390	1292	918	733	663

Number of seats earmarked for reserved category as per GOI/State Govt rule year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
348	348	180	210	180

Number of outgoing / final year students year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
309	375	175	137	328

Total number of outgoing / final year students

Response : 1324

#### 3.3 Academic

**Number of teachers year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
129	106	80	74	77

**Number of full time teachers year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
129	106	80	77	77

**Number of sanctioned posts year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
129	106	80	77	77

**Total experience of full-time teachers****Response : 961.33****Number of teachers recognized as guides during the last five years****Response : 18****Number of full time teachers worked in the institution during the last 5 years****Response : 129****3.4 Institution****Total number of classrooms and seminar halls****Response : 21****Total Expenditure excluding salary year wise during the last five years ( INR in Lakhs)**

2016-17	2015-16	2014-15	2013-14	2012-13
98.81	5.60	20.57	36.67	34.05

**Number of computers**

**Response : 126**

**Unit cost of education including the salary component(INR in Lakhs)**

**Response : 0.624267**

**Unit cost of education excluding the salary component(INR in Lakhs)**

**Response : 0.039843**

NAAC

## 4. Quality Indicator Framework(QIF)

### Criterion 1 - Curricular Aspects

#### 1.1 Curricular Planning and Implementation

**1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process**

**Response:**

The curriculum prescribed by the Tumkur University for the Science Undergraduate Programs is adopted in the institution. The institution has well structured plan to ensure effective implementation of the curriculum and is accomplished through various customs.

**Principal Meeting with Staff and HOD's:**

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.

**Head of Department's Meeting:**

The institution adopted 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.

**Academic Calendar:**

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.

**Bridge Course**

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.

**Action Plan:**

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.

The teachers, administration and supporting staff work in unidirectional way to impart Vision and Mission message and to achieve goals of the institution and individual departments as well. 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.

### 1.1.2 Number of certificate/diploma program introduced during the last five years

**Response: 1**

#### 1.1.2.1 Number of certificate/diploma programs introduced year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
01	0	0	0	0

#### File Description

#### Document

Details of the certificate/Diploma programs

[View Document](#)

### 1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

**Response: 54**

#### 1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
53	55	45	45	48

#### File Description

#### Document

Details of participation of teachers in various bodies

[View Document](#)

## 1.2 Academic Flexibility

### 1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years

**Response: 29.41**

#### 1.2.1.1 How many new courses are introduced within the last five years

**Response: 05**

File Description	Document
Details of the new courses introduced	<a href="#">View Document</a>
Minutes of relevant Academic Council/BOS meetings.	<a href="#">View Document</a>

### 1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

**Response:** 100

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 17

File Description	Document
Name of the programs in which CBCS is implemented	<a href="#">View Document</a>
Minutes of relevant Academic Council/BOS meetings.	<a href="#">View Document</a>

### 1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

**Response:** 0.33

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
23	0	0	0	0

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	<a href="#">View Document</a>

## 1.3 Curriculum Enrichment

### 1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

**Response:**

The institution has well developed mechanism to integrate cross-cutting issues relevant to Gender, Environmental sustainability, Human Values and Professional Ethics, which find a prominent role in shaping the personality of student and in the society and emphasis must given throughout curriculum. The curriculum of the Tumkur University to which the institution is affiliated includes many of these aspects related to the cross-cutting issues. The gender equality and human values issues and environmental sustainability issues are imparted through the teaching of in the first and second semester respectively. The former are included in the Indian Constitution compulsory theory paper in the later in the Environmental Science compulsory theory paper. The institution integrates the cross-cutting issues by constituting various committees. These committees organize blood donation programmes, voter's day programme, swachh Bharath, tree plantation, world charity day and health awareness programmes such other various programmes throughout academic year.

**Gender:**

The college provided equal opportunities and identical platform for men and women to promote them in all activities and programs conducted throughout the academic year. The equal participation and rights in all fields of activities has contributed for the sustainable development of the institution. In all committees utmost care is taken to avoid gender discrimination during the constitution of committees either related to academics or administration.

**Environment Sustainability and Human Values:**

The institution systematically integrated the cross-cutting key issue environment sustainability in the curriculum. The principal and coordinators of NSS units conduct meeting to discuss the environmental impact and ways to limit any negative environmental impacts. This is completed by the organizing the camps. The camps of few days include cleaning the campus; maintain plastic free environment, health awareness programmes and human values and human rights.

**Professional ethics:**

One of the important cross-cutting issues which apply across all years is professional ethics integrated in our curriculum through the ways. We have adopted the method of organizing a guest-lecture program from experts in their profession. In addition to the traditional basic sciences teaching, we organize lectures, panel discussion and group discussions involving students and teachers about professional ethics. We conduct this as part of regular departmental seminar. We integrate professional ethics into curriculum by raising and discussing ethical questions in all subjects. This helps the student to learn the ethics as integral part and practice of science subjects. In all the subjects students are asked to write essay on professional ethics topic. In the institution, the placement cell guides the students to opt the profession of their choice after undergraduate programme. The placement cell including the placement officer and members organizes few programs in the semester to impart knowledge about professional ethics.

Committees for integration of cross-cutting issues:

1. Discipline Committee
2. Anti ragging Committee
3. Women sexual harassment prevention committee

- 4.Placement committee
- 5.Student Welfare committee
- 6.Youth Red Cross Cell
- 7.NSS
- 8.NCC
- 9.Yoga Health and fitness committee.
- 10.Magazine committee
- 11.SC/ST Cell
- 12.OBC Cell
- 13.Students grievances redressal committee
- 14.Parent- Teacher interaction committee
- 15.Research activity cell
- 16.Cultural committee
17. Sports committee
- 18.Student Counseling cell
- 19.Remedial and Civil Service committee
- 20.Alumni association

### 1.3.2 Number of valued added courses imparting transferable and life skills offered during the last five years

**Response:** 3

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 3

File Description	Document
Details of the value-added courses imparting transferable and life skills	<a href="#">View Document</a>

### 1.3.3 Percentage of students undertaking field projects / internships

**Response:** 8.89

1.3.3.1 Number of students undertaking field projects or internships

Response: 135

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 1.4 Feedback System



**1.4.1 Structured feedback on curriculum obtained from 1) Students 2) Teachers 3) Employers 4) Alumni 5) Parents For design and review of syllabus semester wise/ year wise**

**A. Any 4 of the above**

**B. Any 3 of the above**

**C. Any 2 of the above**

**D. Any 1 of the above**

**Response:** A. Any 4 of the above

File Description	Document
URL for stakeholder feedback report	<a href="#">View Document</a>

**1.4.2 Feedback processes of the institution may be classified as follows:**

**A. Feedback collected, analysed and action taken and feedback available on website**

**B. Feedback collected, analysed and action has been taken**

**C. Feedback collected and analysed**

**D. Feedback collected**

**Response:** B. Feedback collected, analysed and action has been taken

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

#### 2.1.1 Average percentage of students from other States and Countries during the last five years

**Response:** 0.32

##### 2.1.1.1 Number of students from other states and countries year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
5	2	5	4	0

#### File Description

#### Document

Institutional data in prescribed format

[View Document](#)

List of students (other states and countries)

[View Document](#)

#### 2.1.2 Average Enrollment percentage (Average of last five years)

**Response:** 82.25

##### 2.1.2.1 Number of students admitted year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
564	614	350	418	204

##### 2.1.2.2 Number of sanctioned seats year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
696	699	360	449	392

#### File Description

#### Document

Institutional data in prescribed format

[View Document](#)

#### 2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

**Response:** 97.18

2.1.3.1 Number of actual students admitted from the reserved categories year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
348	328	180	210	165

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 2.2 Catering to Student Diversity

**2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners**

**Response:**

Students of B.Sc./M.Sc. course get admission to our institution through merit based selection. We have a streamlined mechanism for continuous monitoring and evaluation of the students.

**Students are identified based on:**

- Performance in pre-university examination
- Performance in internal examination
- Performance in semester examination
- Interaction in class room

**Strategies adopted for facilitating Slow Learners:**

- Mentor of the student and respective faculty counsels the candidate
- Extra classes are organized to clarify doubts and re-explaining of critical topics for improving performance
- Students will be provided with the books/printed material and advised to attend the classes regularly

**Strategies adopted for facilitating Quick Learners:**

Quick learners are identified through their performance in examinations, interaction in class room and laboratory, their fundamental knowledge, concept understanding and articulation abilities etc., The Institute promotes independent learning that contributes to their academic and personal growth.

**Strategies adopted for student improvement:**

- Remedial classes are organized to clarify doubts
- Re-explaining of critical topics for improving performance
- Monthly attendance is reported to the students through notice board
- Motivational classes are conducted to improve the mental ability of student to analyze problems and to encourage student to regularly attend classes
- Additional details are given in each class regarding the topic
- Students can discuss their personal issues with teachers for proper guidance

Career counselling sessions are provided to students regarding various fields in respective subjects

### 2.2.2 Student - Full time teacher ratio

**Response:** 11.17

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

### 2.2.3 Percentage of differently abled students (Divyangjan) on rolls

**Response:** 0

#### 2.2.3.1 Number of differently abled students on rolls

File Description	Document
List of students(differently abled)	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

## 2.3 Teaching- Learning Process

### 2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

**Response:**

We in University College of Science, Tumakuru believe in the adoption of student centric methods to enhance student involvement as a part of participative learning and problem solving methodology. We follow discussions, laboratory experiential learning and mini projects.

#### Discussions

The Participatory learning environment can also refer to specific forms of advanced learning techniques that are based on both situated and constructionist principles. It includes activity learning, group discussions and describing visual images. Active learning is a form of learning in which teaching strives to involve students in the learning process more directly than other methods.

The interesting subject matters are let for discussion amongst the students in a class room. Thereby the students try to explore their knowledge about the subject and expose themselves to the active learning process.

### Laboratory experiential learning

Experiential learning is a process of learning through experience. Experiential learning considers the individual learning process. Science education is always justified with the help of practical knowledge. In the laboratory a group of students are allotted to a faculty member who looks after them and nurtures them. In the laboratories students perform the experiments and learn the basic principles behind every experiment themselves through experience.

### Mini projects:

To enhance the practical knowledge with innovation, we do encourage our students to make some Mini projects from II year onwards. Students are divided into small groups so that personal attention can be paid and every student's role will become prominent.

### 2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

**Response:** 37.5

#### 2.3.2.1 Number of teachers using ICT

Response: 51

File Description	Document
List of teachers (using ICT for teaching)	<a href="#">View Document</a>

### 2.3.3 Ratio of students to mentor for academic and stress related issues

**Response:** 11.17

#### 2.3.3.1 Number of mentors

Response: 136

File Description	Document
Year wise list of number of students, full time teachers and students to mentor ratio	<a href="#">View Document</a>

### 2.3.4 Innovation and creativity in teaching-learning

**Response:**

We have taken it as a challenge to improvise the Teaching – Learning environment into student friendly learning. We mainly adopted the below methods to transform the learning environment.

#### **Digital library:**

Students are provided with an access with NPTEL and Shodhganga references for quick learners. College library has an access to many international journals and publications.

#### **Subjective seminars:**

At the PG level, seminars on the subjective topics are made mandatory. At the UG level the students are encouraged to give seminars.

#### **Power Point Presentations:**

Faculty made Power point presentations including the videos of the lectures on technical topics as per the syllabus is presented to the students at the end of every chapter for the students' ready reference. This helps the slow learners for a better revision.

#### **Outcome based teaching and learning:**

The institution ensures achievement of outcome based learning through:

- Analysis of the feedback of the students on course curriculum and teaching
- Analysis of the performance of the students in semester examination
- Faculty members are instructed to use new techniques and methods in teaching based on the analysis of feedback and outcome.

#### **Seminars and Guest Lectures:**

We do conduct seminars and call the eminent personalities to give the guest lecturers.

## **2.4 Teacher Profile and Quality**

### **2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years**

**Response:** 100

<b>File Description</b>	<b>Document</b>
Year wise full time teachers and sanctioned posts for 5 years	<a href="#">View Document</a>

**2.4.2 Average percentage of full time teachers with Ph.D. during the last five years****Response:** 18.76**2.4.2.1 Number of full time teachers with Ph.D. year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
29	24	14	14	10

**File Description****Document**

List of number of full time teachers with PhD and number of full time teachers for 5 years

[View Document](#)**2.4.3 Teaching experience of full time teachers in number of years****Response:** 7.07**File Description****Document**

List of Teachers including their PAN, designation,dept and experience details

[View Document](#)**2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years****Response:** 1.51**2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
0	4	2	0	1

**File Description****Document**

Institutional data in prescribed format

[View Document](#)**2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years****Response:** 2.91

## 2.4.5.1 Number of full time teachers from other states year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
4	4	2	2	2

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	<a href="#">View Document</a>

## 2.5 Evaluation Process and Reforms

### 2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

#### Response:

The institution ensures transparency in the evaluation of internal assessment by sharing the scheme of internal assessment in the classrooms. Based on the scheme, the college conducts tests, classroom seminars and assignments for allotment of internal assessment mark. Attendance of the students is also taken into consideration for calculation of internal assessment marks. The behavioural aspects of the student's are monitored by the faculty within the classroom to assess their overall development. The assessment through test and exams are taken as an indicator for evaluating student's performances. The student's performances are periodically monitored through student follow-up program and necessary support is provided for the students to achieve the learning objectives through remedial classes, and other student support programs. Moreover, the college evaluates the students learning outcomes consistently by conducting various kinds of exams like class tests, practical exam, seminars, and assignments.

### 2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

#### Response:

The institution ensures transparency in the evaluation of internal assessment by sharing the scheme of internal assessment in the classrooms. Based on the scheme, the college conducts class tests, practical tests, classroom seminars and assignments for allotment of internal assessment mark. Surprise tests are also conducted to evaluate the continuity in learning process of the students. The valued answer scripts of internal tests are distributed to the students to take note of their performance and basing on the genuine grievance of the students modification is also entertained. The feedbacks from the parents are also taken during parents' meeting and initiative is taken under the guidance of IQAC for reform in teaching learning process.

### 2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and



**efficient**

**Response:**

The institution maintains transparency in dealing with exam related issues. After conducting the class tests valued answer scripts of internal tests are distributed to the students to take note of their performance and basing on the genuine grievance of the students modification is also entertained and is time bound and efficient. The semester examinations are conducted as per the directions of the University. If any grievances arise there is a provision for challenging/re-valuation, the result of which is announced within the stipulated time. The students are entitled to get photo copies of the answer scripts.

#### **2.5.4 The institution adheres to the academic calendar for the conduct of CIE**

**Response:**

The institution adheres to the academic calendar for the conduct of CIE. The University publishes the academic calendar every year. Since our Institution is a Constituent college, we follow the academic calendar of the University for all academic and CIE. Once the academic calendar is announced by the University, each department of our College prepare the academic calendar wherein the dates of conducting internal tests, assignment questions, internal practical tests, seminar activities and announcement of IA marks are announced. The departments follow the academic calendar rigorously.

## **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 on website and communicated to teachers and students**

**Response:**

Every programme has its own learning outcomes set out by university itself as preface to the syllabus and adopted by the institution. The staff members are therefore well-informed of these outcomes before they commence teaching. The learning outcomes of each subject are also informed to the students by the teachers. Programme outcome, programme specific out come and Course outcomes of the students are evaluated in class tests and end of each semester and recorded in the register after completion of evaluation process. The results of these tests are communicated to the students through University website. Weak students are advised to work hard with strong delimitation and zeal for betterment of their life and fulfilment of high aspiration of their parents.

### **2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution**

**Response:**

Exit Level feed backs and result sheets of students are collected for review and analysis. The IQAC devised remedial measures to overcome subsequent barriers of learning. IQAC and the Principal of the institution jointly monitor and ensure the achievement of learning outcomes. The teachers are individually making assessment for evaluation of student's performance and achievement of learning by adopting their own concepts along with the prevalent system of the institution. IQAC analyzes the College results each year and the result analysis is discussed with the HoD's and all the teaching staffs in the beginning of the academic year. The scope for improvement of the results in the next exams by implementing new methodologies in teaching-learning is also suggested by the IQAC.

### 2.6.3 Average pass percentage of Students

**Response:** 70.15

2.6.3.1 Total number of final year students who passed the university examination

Response: 289

2.6.3.2 Total number of final year students who appeared for the examination

Response: 412

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>

## 2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

**Response:**

File Description	Document
Database of all currently enrolled students	<a href="#">View Document</a>

## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

**3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years**

**Response:** 337.04

3.1.1.1 Total Grants for research projects sponsored by the government/non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
24.18	83.25	75.78	54.44	99.39

File Description	Document
List of project and grant details	<a href="#">View Document</a>

**3.1.2 Percentage of teachers recognised as research guides at present**

**Response:** 13.24

3.1.2.1 Number of teachers recognised as research guides

Response: 18

File Description	Document
Any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

**3.1.3 Average number of research projects per teacher funded by government and non government agencies during the last five years**

**Response:** 0.36

3.1.3.1 Number of research projects funded by government and non-government agencies during the last five years

Response: 46

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>
List of research projects and funding details	<a href="#">View Document</a>

## 3.2 Innovation Ecosystem

### 3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

#### Response:

Our institution has initiated and promoting the research through

- Motivating faculty members to write and submit research proposals.
- By initiating the teachers to organize and conduct the conferences/seminars/workshops on various current research topics
- Motivating the students to undertake small research projects under the guidance of teachers.

Our university and institution provided the well facilitated research labs for doing research projects funded by various Govt. and non-Govt organizations. These research labs are not only helpful to academic students to work and complete their projects but also provide the platform to train the project students towards research.

### 3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

#### Response: 0

#### 3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

File Description	Document
List of workshops/seminars during the last 5 years	<a href="#">View Document</a>

## 3.3 Research Publications and Awards

### 3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

<b>Response: Yes</b>	
<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>

<b>3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards</b>	
<b>Response: No</b>	
<b>File Description</b>	<b>Document</b>
List of Awardees and Award details	<a href="#">View Document</a>

<b>3.3.3 Number of Ph.D.s awarded per teacher during the last five years</b>	
<b>Response: 0.39</b>	
3.3.3.1 How many Ph.Ds awarded within last five years	
Response: 7	
<b>File Description</b>	<b>Document</b>
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>

<b>3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years</b>											
<b>Response: 0.64</b>											
3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years											
<table border="1"> <thead> <tr> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> <th>2012-13</th> </tr> </thead> <tbody> <tr> <td>43</td> <td>90</td> <td>80</td> <td>40</td> <td>40</td> </tr> </tbody> </table>		2016-17	2015-16	2014-15	2013-14	2012-13	43	90	80	40	40
2016-17	2015-16	2014-15	2013-14	2012-13							
43	90	80	40	40							
<b>File Description</b>	<b>Document</b>										
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>										

### 3.3.5 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

**Response:** 0.55

3.3.5.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
51	80	40	80	6

#### File Description

#### Document

List books and chapters in edited volumes / books published

[View Document](#)

## 3.4 Extension Activities

### 3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

**Response:**

During every academic year for the period 2012–2017, the college has been conducting various extension/outreach activities, in association with government and/or recognized bodies such as Red Cross Society and Sri Ramakrishna Ashram, for the faculty members and students. Also, students and faculty members are encouraged to attend programs/special camps organized by these recognized bodies. Some of the activities include blood donation camp, awareness program, youth festival, National integration camp and trekking camp. Each of these activities is being conducted to ensure all-inclusive development of students and faculty members. Further to this, the institution has planned these activities to ensure that students are exposed to the several facets of the society and some of the issues involved. This will ensure that they realize the real problems prevailing in the society, become sensitive towards them and grow up contributing to the solution to the pertaining problems.

Almost every year, during the even semester, a special camp, at a specific location - often a nearby village, has been organized by the NSS in which student participants and faculty NSS officers stay together, for a week, and take part in developmental activities in the vicinity all through the day. Also, special lectures are organized for the participants and the local people where in experts from different fields of the society address them and bring awareness among them about the several social issues.

Every year, NCC cadets have taken part in various kinds of activities such as drills, weapon training, map reading, firing, etc. Further, some of the chosen cadets have participated in integration camps, battalion camps, leadership camps, army attachment camps and Republic day parade. This has ensure the holistic development of students and has ensured that they become responsible citizens of the nation.

**3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years****Response:** 3

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	0	0

**File Description****Document**

Number of awards for extension activities in last 5 years

[View Document](#)**3.4.3 Number of extension and outreach programs conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc., during the last five years****Response:** 10

3.4.3.1 Number of extension and outreach programs conducted in collaboration with industry,community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc.,year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
03	01	02	02	02

**File Description****Document**

Number of extension and outreach programs conducted with industry,community etc for the last five years

[View Document](#)**3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years****Response:** 22.9

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-

Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
250	250	250	200	150

File Description	Document
Average percentage of students participating in extension activities with Govt. or NGO etc.	<a href="#">View Document</a>

### 3.5 Collaboration

**3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years**

**Response: 3**

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	1	2	0	0

File Description	Document
Number of Collaborative activities for research, faculty etc.	<a href="#">View Document</a>
Copies of collaboration	<a href="#">View Document</a>

**3.5.2 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)**

**Response: 3**

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the last five years



2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	01	02

<b>File Description</b>	<b>Document</b>
e-copies of the MoUs with institution/ industry/ corporate house	<a href="#">View Document</a>
Details of functional MoUs with institutions of national, international importance, other universities etc. during the last five years	<a href="#">View Document</a>

NAAC

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

**4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.**

**Response:**

The college is situated in the heart of Tumkur city and is spread over a vast area of 69.34 acres. It shares its campus with its mother concern Tumkur University. The college is housed in a heritage building which was opened in 1966 by Sri V. V. Giri, the then Governor of Mysore. Since then the institution is continually expanding in its physical resources with the addition of every new course and program. The college campus is known for its greenery and tranquility, and is ideally suited for learning in serene environment.

The teaching learning facilities are adequate as to compliment the total strength of the college and faculties are making best use of the infrastructure available to make students more competent today's world.

**The following infrastructure facility is available for the teaching-learning process in the college**

Facility	Number	
<p><b>Lecture Halls (UG + PG courses)</b></p> <p><i>Well-illuminated, well-ventilated and ICT enabled rooms with a minimum seating capacity of 60</i></p>		<b>21</b>
<p><b>Laboratories (UG + PG courses)</b></p> <p>All labs are equipped with necessary instruments, apparatus, computers, specimen, models and charts and other appropriate learning materials.</p>	<p><i>Chemistry</i>                      08</p> <p><i>Physics</i>                              06</p> <p><i>Mathematics</i>                      01</p> <p><i>Electronics</i>                      01</p> <p><i>Botany</i>                                02</p> <p><i>Zoology</i>                              03</p> <p><i>Microbiology</i>                      01</p> <p><i>Bio-technology</i>                      01</p> <p><i>Environmental Science</i>      02</p>	

<p align="center"><b>Computer labs</b></p> <p>The labs consist of a total number of 40 computers loaded with recent versions of software such as Visual basics, JDK along with other common packages.</p>		02
<p><b>Language lab</b> (meant for Kannada and English languages) With 18 computers, the lab is working with <b>ZybroLanguage Lab Professional Version 1</b> + 20 consoles</p>		01
<p align="center"><b>Seminar Halls</b></p>	<p align="center">Sir M. Visvesvaraya Auditorium (Air conditioned with a seating capacity of 1000)  ICT enabled)  Mini Seminar Hall (Seating capacity of 150, ICT enabled)</p>	

**4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor) gymnasium, yoga centre etc. and cultural activities**

**Response:**

**The following facility is made available for Sports and Games**

	Area: 9000 sq. mts	Year of establishment	Us
<p align="center"><b>Outdoor Sports Facility</b></p>	<p align="center"><b>Sports covered:</b></p> <p>1) Volley ball, Kho-Kho, Kabaddi, Ball badminton, Throw Ball, cricket</p> <p>2) Fed-light Basketball court, Hand ball and Net ball court</p>	<p align="center">2010</p> <p align="center">2015</p>	
<p align="center"><b>Indoor Sports Facility</b></p>	<p align="center"><b>For Men</b></p>		

	400 sq. ft.	2012	
	<b>For Women</b>	2012	
	800 sq. ft.		
	<b>Sports covered</b>		
	Chess, carom and table tennis		
<b>Multi-Gymnasium (16 stations)</b>	<b>Area:</b> 6000 sq. ft. <i>(Weight Lifting facility is also covered)</i>	2015	
<b>Yoga Center</b>	The Main auditorium is made used for Yoga activities		

**The following facility is made available for Cultural activities**

<p>Sree Sree Sree Shivakumara Swamiji Auditorium (Seating capacity 1000)</p> <p>Sir M. Visvesvaraya Auditorium (Air conditioned with a seating capacity of 350 ICT enabled)</p>	<p>Musical instruments (mainly f are available</p>
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<b>File Description</b>	<b>Document</b>
Link for Additional Information	<a href="#">View Document</a>

**4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc****Response:** 100

## 4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 21

**File Description****Document**

Number of classrooms and seminar halls with ICT enabled facilities

[View Document](#)**4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.****Response:** 19.73

## 4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
11.81	0	15.5	2.44	1.60

**File Description****Document**

Details of budget allocation, excluding salary during the last five years

[View Document](#)**4.2 Library as a Learning Resource****4.2.1 Library is automated using Integrated Library Management System (ILMS)****Response:**

The Library and Information Center of University College of Science was established along with the College, it started functioning from the year 1940. The Library is located in the College premises for the easy access and is rendering quality services. The library has adopted an open access approach to promote the use of information resources.

The collection of the Library is rich and diverse, especially in terms of breadth and depth of coverage in the areas of Life sciences, Physical Sciences, Chemical Sciences, Biological Sciences and Computer Science and is growing at a very fast pace to match the changing needs of students and staff of

the college. It has a collection of over **49,194** which includes Books, Reference Books, CD's & DVD's, Back volumes, Magazines, Project reports and other reading Materials. Library subscribes 35 periodicals in the various fields of Science and Technology. Library has good collection of competitive books kept separately "**IAS Corner**" to cater the needs of students for preparing competitive exams like JEEE, JGATE, CSIR NET etc and motivating them to take up civil services.

Library have access to more than **6000+ e-journals** (including current issues with 5-10 years back files) and **31,35,000 + e-books** through program entitled "**National Library and Information Services infrastructure for Scholarly Content (N-LIST)**" by INFLIBNET.

<http://nlist.inflibnet.ac.in/index.php>

Library has access to **IEEE Communication Society Digital Library** which includes 17 periodicals and conference and workshops proceedings. <https://www.comsoc.org/dl>

Library in-house activities and services are **fully automated** with the use **of e-Lib iNext** Integrated Library Management Software, **barcode technology** is used for automated circulation and **RFID implementation** is under process.

- **Name of the ILMS software : e-Lib iNext Library Management Software**
- **Nature of automation (fully or partially) : fully automated**
- **Version: Web version <http://172.16.8.2:10/>**

#### 4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

##### Response:

The details are provided as additional information in this section.

2013-14	Certificate physical and human geography	Oxford university press New Delhi	Lec
	Eminent Indians: freedom fighters	Rupa, New Delhi	Ah
	Ethical governance in business and government	Aalekh publishers Jaipur	Arc
	From plassey to partition : A history of modern India	orient Blackswan Pvt ltm, New Delhi	Bar
	History of the world from the late nineteenth to the early twenty first century		Arj
	India after Gandhi : the history of the World's largest	Picador, London	Gul

democracy			
India 2013: a reference annual	Ministry of information and broadcasting government of India, New Delhi		
Indian social system	Rawat Publication, New Delhi		Ah
Introduction to the constitution of India	Lexis Nexis		Bas
Oxford student Atlas : for India	Oxford University press, New York		Ox
Pearson CSAT manual 2013: civil services aptitude test for the UPSC civil services preliminary examination	PEARSON EDUCATION , NEW DELHI		Th
Pyramid of virgin dreams	Rupa, New Delhi		Mit
Social problems in India	Rawat Publications, Jaipur		Ah

The details are provided as additional information in this section.

File Description	Document
Any additional information	<a href="#">View Document</a>

#### 4.2.3 Does the institution have the following:

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

**A. Any 4 of the above**

**B. Any 3 of the above**

**C. Any 2 of the above**

**D. Any 1 of the above**

**Response:** A. Any 4 of the above

File Description	Document
Any additional information	<a href="#">View Document</a>
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc.	<a href="#">View Document</a>

**4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)****Response:** 1.12

4.2.4.1 Annual expenditure for purchase of books and journals year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
1.029	0.6	1.79	1.10	1.10

**File Description****Document**

Details of annual expenditure for purchase of books and journals during the last five years

[View Document](#)**4.2.5 Availability of remote access to e-resources of the library****Response:** Yes**File Description****Document**

Details of remote access to e-resources of the library

[View Document](#)**4.2.6 Percentage per day usage of library by teachers and students****Response:** 3.81

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 63

**File Description****Document**

Details of library usage by teachers and students

[View Document](#)**4.3 IT Infrastructure****4.3.1 Institution frequently updates its IT facilities including Wi-Fi****Response:**

- Since 2011 college has Wi-Fi and Internet cable facility, which was provided by Government of Karnataka with free life time validity. No Updating was done after 2011. Minor repairs are done by



University.

- College admission related process, examination related work done online – NIC
- Online portal of fee payment – SBI
- University Science college have website – [www.ucst.ac.in](http://www.ucst.ac.in)
- Library is fully automated and has 10 computers for accessing e-resources like e-books, e-journals, etc.
- Library have separate website with 24/7 WebOPAC facility <http://libraryucst.in/>
- Language laboratory is fitted with computers.
- Mathematics, computer science departments are having sufficient number of computers for students – Total about 50 computers
- College have Intel Lab, Placement Cell and Carrier guidance for students

#### 4.3.2 Student - Computer ratio

**Response:** 12.06

File Description	Document
Student - Computer ratio	<a href="#">View Document</a>

#### 4.3.3 Available bandwidth of internet connection in the Institution (Lease line)

<5 MBPS

5-20 MBPS

20-35 MBPS

35-50 MBPS

**Response:** >=50 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	<a href="#">View Document</a>

#### 4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

**Response:** No

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	<a href="#">View Document</a>

## 4.4 Maintenance of Campus Infrastructure

### 4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

**Response:** 94.65

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
97.79	5.0	18.78	35.56	32.94

#### File Description

#### Document

Details about assigned budget and expenditure on physical facilities and academic facilities

[View Document](#)

### 4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

**Response:**

The college has exclusive committees to oversee the academic, research, infrastructure and learning resources separately. The committees are mostly headed by senior faculties who plan, implement and review the activities under each category. The academic committee looks into matters ranging from routine activities such as drafting timetables and action plans to instigation of new courses in the college. The research committee not only monitors the ongoing projects but also identifies potential investigators and new projects. Infrastructure committee also functions as planning board which is responsible for the maximum and appropriate utilization of funds/grants, resource mobilization and possible opportunities to obtain grants. Library advisory committee monitors the procurement of learning resources such as books and e-resources and works in co-ordination with the librarian in the overall development of College Library.

The functions, recommendations and outcomes of all the committees are co-ordinated by the Principal.

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

#### 5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

**Response:** 45.68

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
970	695	567	194	110

#### File Description

#### Document

Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

[View Document](#)

Upload self attested letter with the list of students sanctioned scholarships

[View Document](#)

#### 5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

**Response:** 0.45

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
4	4	1	7	4

#### File Description

#### Document

Any additional information

[View Document](#)

Number of students benefited by scholarships and freeships besides government schemes in last 5 years

[View Document](#)

**5.1.3 Number of capability enhancement and development schemes –**

1. For competitive examinations
2. Career counselling
3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

**A. 7 or more of the above**

**B. Any 6 of the above**

**C. Any 5 of the above**

**D. Any 4 of the above**

**Response:** A. 7 or more of the above

<b>File Description</b>	<b>Document</b>
Details of capability enhancement and development schemes	<a href="#">View Document</a>

**5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years**

**Response:** 12.13

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
150	200	50	75	124

<b>File Description</b>	<b>Document</b>
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	<a href="#">View Document</a>

**5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during**

**the last five years**

**Response:** 0.32

5.1.5.1 Number of students attending VET year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
22	0	0	0	0

**File Description**

**Document**

Details of the students benefitted by VET

[View Document](#)

**5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases**

**Response:** Yes

**File Description**

**Document**

Details of student grievances including sexual harassment and ragging cases

[View Document](#)

Any additional information

[View Document](#)

Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee

[View Document](#)

## 5.2 Student Progression

**5.2.1 Average percentage of placement of outgoing students during the last five years**

**Response:** 4.74

5.2.1.1 Number of outgoing students placed year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
26	37	5	1	6

File Description	Document
Any additional information	<a href="#">View Document</a>
Self attested list of students placed	<a href="#">View Document</a>
Details of student placement during the last five years	<a href="#">View Document</a>

### 5.2.2 Percentage of student progression to higher education (previous graduating batch)

**Response:** 66.02

5.2.2.1 Number of outgoing students progressing to higher education

Response: 204

File Description	Document
Details of student progression to higher education	<a href="#">View Document</a>

### 5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: NET/SLET/GATE/ GMAT/CAT, GRE/ TOFEL/ Civil Services/State government examinations)

**Response:** 8

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/GATE/GMAT/CAT, GRE/TOFEL/Civil Services/State government examinations) year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
2	2	0	0	0

5.2.3.2 Number of students who have appeared for the exams year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
10	10	1	1	1

File Description	Document
Number of students qualifying in state/ national/ international level examinations during the last five years	<a href="#">View Document</a>

### 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) during the last five years.

**Response:** 56

5.3.1.1 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 wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
10	16	14	4	12

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	<a href="#">View Document</a>

#### 5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

**Response:**

Yes, 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

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.

### 5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

**Response:** 3.8

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
4	4	3	4	4

File Description	Document
Number of sports and cultural activities / competitions organised per year	<a href="#">View Document</a>
Report of the event	<a href="#">View Document</a>

## 5.4 Alumni Engagement

**5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years**

**Response:**

University College of Science Alumni Association (R) is the registered and functional alumni association of the college. More than 1500 old students of the college have obtained membership. The association is meeting regularly once in a year either during the month of December or January. Six of the permanent faculty of the college are old students of the college and form the core group of the office bearers of the association.

The association is actively engaged in the overall development of the college. The association during its annual meeting invites all the previous year University rank holders of the college and facilitates them thereby encouraging them to grow further in their careers. Also during the meeting, highly accomplished alumni of the college are felicitated. Some of the alumni regularly visit the college and give lectures to the students of the college about their fields of specialization. Two of the alumni form the



members of the college IQAC and suggest methods for the continuous improvement of the college.

The association has recently planned to construct Alumni Building in the college premises. University has specified site for construction as per the request of the association. The plan for the construction has been finalized. Approximate cost of the building is Rs. 2 crores and planned to raise the funds from its alumni. Many prominent alumni have already promised to contribute immensely for the construction of the building. Further work is in progress in this regard.

#### 5.4.2 Alumni contribution during the last five years

<1 Lakh

1 Lakh - 3 Lakhs

3 Lakhs - 4 Lakhs

4 Lakhs - 5 Lakhs

**Response:** 1 Lakh - 3 Lakhs

#### File Description

#### Document

Alumni association audited statements

[View Document](#)

#### 5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

**Response:** 3

##### 5.4.3.1 Number of Alumni Association /Chapters meetings held year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	0	0

#### File Description

#### Document

Number of Alumni Association / Chapters meetings conducted during the last five years.

[View Document](#)

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

#### 6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

##### Response:

##### Governance

The vision, mission and goals of the institution are achieved through strategic action plan, effective leadership and participative decision-making process. The institution takes great care in ensuring that all the activities of the institution are in tune with the stated goals. The responsibility of fulfilling the vision and mission of the institution is a shared one. The head of the institution, followed by the heads of the department make sure that all the members of the institution are fully aware of the direction towards which the institution is headed. Further, institutional activities are monitored through a punctual multilayered supervisory process carried out, at first, by the committees set up for specific purposes or by the head of the concerned department, and then, by the head of the institution. The committees/heads suggest course correction as and when required. Yet, the committees /heads ensure that individuals are given a fairly free hand to conceive and execute ones ideas. The committees are always democratic and the decision making process is participative. The members of the committees are advised to be considerate.

At the beginning of the academic year, various departments and the administration scrutinize the workload and assess the needs for staff recruitment. This is further scrutinized by the Principal. The institution has constituted different committees and cells with faculty representatives, which play an important role in the planning and implementation of the activities in different regions of the institutional functioning. Unanimous decision is taken while appointing officers in charge of different programs in the institutional development (NSS, NCC, etc.). Community and extension service is integrated with the curriculum as extended opportunities to help, serve and learn. Field Trips, outreach programs, Village Camps and Blood Donation Camps make the students aware of their social responsibilities and commitments.

The College administration is carried out by the Principal with the help of various bodies including the office, the college council, the governing council and the staff council. The Principal delegates duties and responsibilities to these bodies for carrying out the administrative activities.

##### Perspective Plans

Introduction of innovative curricular framework aimed at knowledge, skill and aptitude-based application-oriented higher education and research is of great significance to the institution at present. Teachers are advised to incorporate topics that are at the “cutting edge” of their respective fields. There is plenty of scope for teachers to go beyond the traditional curriculum. The institution wishes also to place special emphasis upon attaining self-sufficiency and self-reliance. It is committed to be a completely self-financed one. The finance committees set up for each event or activity, take utmost care in minimizing superfluous and unforeseen expenses. Teachers are being encouraged to apply to external agencies for funds for their research projects and the like. Industry-institution partnership is also being encouraged. The institution is working towards obtaining donations from various quarters such as alumni associations and philanthropists.

### 6.1.2 The institution practices decentralization and participative management

#### Response:

The administration is decentralized to ensure the quality of educational provisions. The administrative functions of the institution are mostly carried out in a participatory manner through committees. The responsibility of taking appropriate steps to ensure qualitative teaching and preparing the students to face challenges of the modern world lies with the departmental heads. They also manage their departmental work with the cooperation and assistance of their staff members and maintain stock book and other documents. The departments are given sufficient autonomy to take decisions about the conduct of academic programs. Teaching, evaluation and feedback systems are developed by the individual departments according to the local situations. The administration is decentralized for all academic activities. This paves the way for sharing of duties and responsibilities, binding all the stakeholders in a positive interaction and building good human relations.

For instance, departments are given a free reign in organizing academic activities that they deem fit to. It is indeed very common for the departments to organize events such as seminars and conferences with the help of financial aids received from external associations. Organizing and execution of such activities including the budgetary accounts are monitored by various committees set up for that particular event by the concerned department.

Responsibilities of every staff are communicated to them through official circulars that clearly define their role in the implementation of any given assignments. Besides, they are also informally counseled to make them aware of their duties. The Principal and the college council committee take vital policy decisions. The Principal directs allocation of job responsibility by fixing the due date in consultation with the college council. The Head of the Departments communicate the same to the members of the department. The following steps ensure the responsibilities communicated to the staff of the institution:

- Clear definition of job profiles, job description and job responsibilities;
- Extracurricular activities assigned to the staff with periodic monitoring;
- Periodic staff Council meetings;
- Involvement of the staff in the implementation of every event in the institution;
- Providing code of conduct for the teachers with regard to the work schedule;
- Encouragement given to the staff to get involved in research, extension & consultancy activities;
- and
- Work diaries and staff files are maintained.

## 6.2 Strategy Development and Deployment

### 6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

#### Response:

The strategic plan based on which the activities of the institution are conducted is a cumulative effort. Even though, the head of the institution, heads of the department/committees and the IQAC play a major role in

devising the strategic plan, no member of the faculty is placed outside the scope of participation. Members of the faculty do contribute to the plan when it is kept open for discussion before finalization.

The institutional plan reflects the perspective of the institution about the holistic development of all those involved with the institution, which includes the students, the faculties and non-teaching faculty. Institutional plan is developed by IQAC based on the underlying principles stated in the vision and mission of the institution and the suggestions received from various quarters. After obtaining the required permission from the institutional administration, the plan is placed before the faculties, student representatives and the administrators for an open discussion. The needful changes are made based on their constructive suggestions. Then, it is finalized and submitted to the governing university for scrutiny and implementation.

During its implementation, regular staff meetings are held and the objectives are constantly reinforced. A structure for proper implementation of the plan is created at various levels – committees, departments and individuals. The institutional plan is also communicated to the students directly and indirectly through various activities to ensure their involvement in the development process.

In the beginning of every academic year, the committees are formed under the guidance of the Principal. The committees meet as and when there is a need and take appropriate decisions after thorough discussions. These committees directly and indirectly help the institution to conduct various curricular and extra-curricular activities for general and personality development of the students.

Example: Every foreseeable activity of a department occurs according to its Calendar of Events (CoE) prepared at the beginning of every academic year. The department refers to the CoE published by the University while preparing its own CoE. The CoE takes care to maintain appropriate balance between curricular, co-curricular and extracurricular activities. Activities are evenly spaced. The CoE is then submitted to the Principal for approval. The Principal studies the CoEs of different departments and issues suggestions to decongest them, if required. The CoEs are then submitted to the IQAC, which consolidates them and circulates among the departments. The CoEs are then displayed and distributed among all. Once circulated, the departments try their best not to deviate from it even though there is room to do so under inevitable circumstances. Every month the head of the department conducts meeting to ensure the CoE is being followed. This helps in the proper implementation of the plan.

### **6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism**

#### **Response:**

**Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism.**

NAAC

NAAC

### **The Administrative structure of the institution**

**Grievance Redressal Mechanism:** The institution boasts a very effective mentor system extended for its students. The system has been put in place with the stated objective to help students overcome difficulties of any kind and address their grievances. At the beginning of every academic year a certain number of students are assigned to each member of the faculty who, in turn, schedules regular meetings with each of them separately. These meetings provide an opportunity for the students to share details of any difficulties he or she may be facing. The mentors then initiate appropriate redressal action if required.

**Recruitment:** The institution recruits guest faculty at the beginning of every academic year. The head of the institution is the recruiting officer and the recruitment is done through a three tier process that includes invitation of application, short-listing and interview-cum-demonstration session. The process has been very effective as it emphasizes merit and efficiency of the individuals while recruiting.

File Description	Document
Any additional information	<a href="#">View Document</a>

### 6.2.3 Implementation of e-governance in areas of operation: 1.Planning and Development 2. Administration 3. Finance and Accounts 4. Student Admission and Support 5.Examination

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

**Response:** A. All 5 of the above

File Description	Document
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	<a href="#">View Document</a>
Screen shots of user interfaces	<a href="#">View Document</a>

### 6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

**Response:**

**Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolution**

**Example:** Sexual Harassment Prevention Cell conducts at least four meetings every academic year. The general focus of these meetings is on taking suitable measures in preventing sexual harassment and the nature of action to be taken in case of an unpalatable event. The cell also ensures that every new batch of students and faculty is properly educated in this regard and conducts at least one awareness program every year towards that effect. The fact that the cell has been very effective is testified by the absence of any act of sexual harassment in the institution.

File Description	Document
Any additional information	<a href="#">View Document</a>

## 6.3 Faculty Empowerment Strategies

### 6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

#### Response:

#### The institution has effective welfare measures for teaching and non-teaching staff

The institution is committed to empower its employees to acquire skills and efficiency. The talent and interest are protected by providing ample space for advancement, study and research through FIP. A number of seminars, conferences and workshops are organized by the faculty with the support of the university administration. Conferences in the emerging areas, such as Nano Technology, Information Science, Biotechnology, etc. are organized by the faculties from different departments.

#### Other supports:

- The institution encourages the faculty to pursue higher studies like M.Phil., Ph.D. and post-doctoral work.
- The institution provides OOD facility to its faculty to attend and present research papers in seminars, conferences, workshops, etc.
- The members of the faculty attend the programs like orientation program, refresher course, induction program, student counselling training, etc.
- The faculty members are deputed to attend orientation and refresher courses regularly to keep themselves abreast of current developments and sharpening their skills.
- The faculty members are provided with extended library, internet and equipped laboratory facilities for the academic developmental activities.
- The faculties are encouraged to organize workshops, seminars, conferences, etc.
- Inter disciplinary study and research is encouraged by the institution. Interaction and coordination between different branches gives new approach to the studies and learning.
- Academic flexibility is extended to the faculties who are involved in research.
- The faculty members are encouraged to give lectures in professional associations as resource persons.
- External activities are encouraged to create a bridge between the academicians and society.
- The faculty can obtain memberships with local, national or international professional associations voluntarily.
- Resource persons like scientists and Nobel Laureates motivate the faculties towards research.
- Medical reimbursement for members of faculty and family dependents.

Without compromising institutional interest, the individuals are accommodated to pursue the skills and knowledge up-gradation programs in their respective disciplines. The institution in coordination with the university has conducted a computer learning program and English literacy skill training for non-teaching staff.

The institution focuses to encourage its faculty in the areas mentioned below:

- Training on effective communication skills.
- Innovative teaching techniques
- Inter-disciplinary approach
- Training on research methodology
- Leadership qualities



The institution provides a healthy and inspiring working atmosphere for the faculty with

- Spacious well ventilated staff rooms with attached rest rooms.
- Well-equipped library and reading room
- Ample facilities in the laboratories for research
- Canteen facility
- Parking slot
- Ladies waiting room
- Well-equipped seminar hall
- Huge stage to conduct cultural activities and students gathering
- Health center
- Gardens like Buddavan and Dhanvantarivan are wonderful places for recreation

### 6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

**Response:** 0.16

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
01	0	0	0	0

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years	<a href="#">View Document</a>

### 6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

**Response:** 2.2

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3	3	5	0	0

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 6.3.4 Average percentage of teachers attending professional development programmes viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programme during the last five years

**Response:** 7.72

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
12	04	09	08	03

File Description	Document
Details of teachers attending professional development programs during the last five years	<a href="#">View Document</a>

### 6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

**Response:**

It has been made mandatory for the teaching faculty of Tumkur University, including the faculty of the College, to submit their performance self-appraisal forms every year. The appraisal form is quite an exhaustive one and presents an unambiguous picture of what an individual has achieved. For instance, the form includes areas such as research experience and training; research projects carried out; seminars, conferences, symposia, workshops attended; teaching experience, innovations, contributions in teaching; extension work and community service activities involved in; and participation in corporate events and activities. The form is divided broadly into three sections.

The system helps the individuals to self-scrutinize and set targets for themselves. The institution takes the Performance Appraisal System very seriously. Apart from this, the institution strictly adheres to the regulations issued by the UGC while granting promotion and increments in Grade Pay and so on. AGP of individual members of the faculty are considered for career advancement. The appraisal is received from both teaching and non-teaching faculty.

File Description	Document
Any additional information	<a href="#">View Document</a>

## 6.4 Financial Management and Resource Mobilization

### 6.4.1 Institution conducts internal and external financial audits regularly

#### Response:

Yes. The accounts of the institution are regularly audited. The Local Inspection Committee of Tumkur University 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. The institution is audited by Accountant General of Karnataka through Tumkur University.

The finance department of Tumkur University, which is also completely computerized and it looks after the financial needs of the Institution. The salaries of all the employees are remunerated directly to their respective accounts. All the details of remuneration extended to the employees is available in the employee database of the University which can be obtained by using unique employee number provided by it. Online Human Resource Management System (HRMS) was adopted in the year 2014 and accountability of salaries of all the members of faculty are maintained in the online database.

### 6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III)

#### Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	<a href="#">View Document</a>

### 6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

#### Response:

The institution is under the control of Tumkur University. All the expenditures incurred are met with the

sole help of government funds. The UGC too extends financial support to the institution, which is utilized appropriately keeping all-round development of the institution in mind.

The day-to-day expenses are met with the help of sufficient funds allocated for the institution in the annual budget of the State Government/Tumkur University. Apart from this, the quasi government and contingency funds are utilized to meet the deficit. The financial assistance given to the institution by the Tumkur University, UGC, RUSA, and CPE is utilized to attend to the academic and institutional requirements such as salary of the employees, developmental activities and amelioration of infrastructure. The institution is recognized as center with potential for excellence. The funds received under the scheme are utilized to develop infrastructure, and to enhance the academic activities.

## 6.5 Internal Quality Assurance System

### 6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

#### Response:

IQAC is an integral and indispensable part of the institution. It is instrumental in developing perspective plans. It coordinates all the learning and teaching activities. It also conducts evaluative processes. It plays a major role in devising the strategic plan. A network exists between IQAC and various committees that are constituted for specific purposes. All the committees work for the benefit of the students.

The institution has been constantly at work with an intention to improve overall governance. The institutional plan reflects the perspective of the institution about the holistic development of all those involved with the institution, which includes the students, the faculties and non-teaching faculty. Institutional plan is developed by IQAC based on the underlying principles stated in the vision and mission of the institution and the suggestions received from various quarters.

The institution has adopted a three tier system where the governing council is the ultimate decision making body accountable to the stakeholders. The IQAC, the planning body, collects inferences from the learners and the implementers (various committees) through participatory interactions, based on which it proposes comprehensive perspective plan to the governing council for approval and implementation. The supervision by the governing council ensures the proper implementation. The fair representation of the learners ensures the transparency in the process.

IQAC planned to admit students to various courses in the institution through a counselling process to maintain the quality, transparency and also the roster system in admission process. Based on this recommendation by the IQAC, institution has adopted the plan for the admission of first BSc students for various courses. Applications are distributed and the merit list is announced, and counselling is conducted based existing vacancies in various courses. Counselling is conducted several times till all the vacancies are filled.

Being a science college IQAC advised to organize science exhibition in the month of February every year. Adopting the suggestion by the IQAC the institution has been organizing exhibitions in all the departments which helps the students to explore new ideas, concepts and new developments in respective fields.

### 6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

#### Response:

IQAC of the institution conducts regular meetings with every academic department where it reviews the operations and processes practiced. In one such meeting the IQAC observed that the teaching-learning process can be made more student-oriented. It was suggested that integration of technology into teaching would make the process more efficient. Soon the recommendations of the IQAC were presented to the Principal, who after proper discussions approved the plan of procuring technological tools such as smartboards and overhead projectors for every classroom.

Similarly, the formative assessments of every department are being conducted a lot more systematically ever since the IQAC issued recommendations to that effect. Currently, each department has its own examination committee that looks after the conduction of internal examinations right from the preparation of timetable and collection of question papers to seating arrangements and distribution of the answer scripts for evaluation. The examination committees function according to the suggestions issued by the IQAC.

To make the library student friendly the institution has taken the measures to digitalize the library. Internet facility is also provided to the students in the library.

### 6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

#### Response: 0

#### 6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

#### File Description

#### Document

Number of quality initiatives by IQAC per year for promoting quality culture

[View Document](#)

### 6.5.4 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
- 2.Academic Administrative Audit (AAA) and initiation of follow up action**

- 3. Participation in NIRF
- 4. ISO Certification
- 5. NBA or any other quality audit

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

**Response:** B. Any 3 of the above

File Description	Document
e-copies of the accreditations and certifications	<a href="#">View Document</a>
Details of Quality assurance initiatives of the institution	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 6.5.5 Incremental improvements made during the preceding five years (*in case of first cycle*) Post accreditation quality initiatives (*second and subsequent cycles*)

**Response:**

- ICT in higher education
- The College now has a website of its own. <http://www.ucst.ac.in/>
- Web-OPAC has been implemented in the library, and it is completely computerized and automated. Barcode technology for book circulation has also been implemented. Radiofrequency identification (RFID) technology implementation has been initiated.
- Autonomy has been provided to the principal by the university in the following areas:

1. Mobilization of funds sanctioned for research projects
2. Sanctioning of OOD and special casual leaves for the members of the faculty of the college.
3. Appointment of guest faculty

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

#### 7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

**Response:** 11

7.1.1.1 Number of gender equity promotion programs organized by the institution year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
05	02	02	01	01

#### File Description

#### Document

List of gender equity promotion programs organized by the institution

[View Document](#)

#### 7.1.2

##### 1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

**Response:**

Gender Equality in the institution/campus is provided in the following ways

- **Safety and social security**

The college campus is well maintained by the security guards by 24X7 at the all the entry gates, as well as inside the campus to check the people coming in and going out of the college campus. CCTV cameras are installed in each corridor of the college campus and at university ladies hostel to keep a vigil and all the activities have been recorded centrally by the university. If any mischievous activities are noted the footages will be retrieved and suitable action will be initiated. With such set up we are able to maintain the safety of the students especially women and property of the college. Special scholarship for girl students under the government schemes are given to encourage them for higher studies. Women reservation is considered both for students and women faculties in their selection process for employment as well as for higher education which provides the social security for women.

- **Counseling**

### Student counseling cell

The student counseling cell is an idea that provides an emotional support and shelter to the students as well as staff members of the college, who are facing any kind of issues. The cell works on issues related to

- Home affairs
- Study problems
- Relation issues
- Any other stress or depression issues - that creates any kind of distress in their life.

The cell conducts meeting with students often, in the meeting the students can meet the coordinators and discuss their problems. The respective mentors try to help the students in their best possible way to overcome their mental condition and live happily.

### Women grievance cell:

This cell is being formed with the objective of solving different grievance of girl students as well as lady faculties. Often females face such problems which are not possible to be solved publicly, or they find it difficult to share or discuss such situation. The women's grievance cell comes handy at certain kind of circumstances like arranging for special lecture related to health issues of girls.

Lectures are conducted to define the code of conduct to girls by faculties. Ladies faculties counsel girl students on various personal issues. Besides this, the Principal in his assembly addresses and deals with issues that pertain to the discipline of maintaining wholesome relationships, the need to respect women and prevent every form of violence.

The college takes pride in the fact that its culture of respecting the dignity and integrity of every human being is holding well and as a result, the harassment of women or gender-based discrimination is prevented.

**Common Room.** Common room is setup in the campus for girl students of all classes so that they spend their leisure time during the college hours with this we provides safety and privacy.

File Description	Document
Any additional information	<a href="#">View Document</a>

### 7.1.3 Alternate Energy initiatives such as:

#### 1. Percentage of annual power requirement of the Institution met by the renewable energy sources

**Response:** 0



7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)	
7.1.3.2 Total annual power requirement (in KWH)	
Response: 66.86	
<b>File Description</b>	<b>Document</b>
Details of power requirement of the Institution met by renewable energy sources	<a href="#">View Document</a>

<b>7.1.4 Percentage of annual lighting power requirements met through LED bulbs</b>	
<b>Response: 0</b>	
7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)	
7.1.4.2 Annual lighting power requirement (in KWH)	
Response: 66.86	
<b>File Description</b>	<b>Document</b>
Details of lighting power requirements met through LED bulbs	<a href="#">View Document</a>

<p><b>7.1.5 Waste Management steps including:</b></p> <ul style="list-style-type: none"> <li>• <b>Solid waste management</b></li> <li>• <b>Liquid waste management</b></li> <li>• <b>E-waste management</b></li> </ul> <p><b>Response:</b></p> <ul style="list-style-type: none"> <li>• <b>Solid waste management:</b></li> </ul> <p>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.</p> <ul style="list-style-type: none"> <li>• <b>Liquid waste management:</b></li> </ul> <p>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.</p> <ul style="list-style-type: none"> <li>• <b>E-waste management</b></li> </ul> <p>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</p>
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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.

### 7.1.6 Rain water harvesting structures and utilization in the campus

#### Response:

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 requested our University to set up rain water harvesting unit in the college premises.

### 7.1.7 Green Practices

- **Students, staff using**
  - a) **Bicycles**
  - b) **Public Transport**
  - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

#### Response:

- **Students, staff using**
  - a) Bicycles
  - b) Public Transport
  - c) Pedestrian friendly roads
    - Plastic free campus
    - Paperless office
    - Green landscaping with trees and plants
- 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
- Student 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.
- Pedestrian friendly roads have been created in and around the camps so that the chances of getting

an accident is well prevented in the campus.

- Our college and hostel campus are plastic free and we have educated the students about the hazards of using plastic and minimization of plastic in our daily life. Our college under the national policy adopted the “**Swachh Bharath Abhiyaan**” program to keep the campus clean.
- Green landscaping with trees: The photograph images of college and hostel campus using GPRS shows large number of trees in the campus. The trees provide fresh air, minimize the pollution and keep the campus cool. We have a botanical garden with medicinal plants well maintained by the department of Botany. The different plants in the campus have been identified and displayed by their botanical and common names. Residents of the nearby areas of the campus come for walk into the campus daily during morning and evening set hours.

### 7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

**Response:** 25.07

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
4.99	4.17	4.17	2.37	6.5

#### File Description

#### Document

Details of expenditure on green initiatives and waste management during the last five years

[View Document](#)

### 7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students
8. Any other similar facility (Specify)

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

**D. At least 2 of the above****Response:** C. At least 4 of the above

File Description	Document
Resources available in the institution for Divyangjan	<a href="#">View Document</a>

**7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years****Response:** 5

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
01	01	01	01	01

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	<a href="#">View Document</a>

**7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)****Response:** 5

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
01	01	01	01	01

File Description	Document
Details of initiatives taken to engage with local community during the last five years	<a href="#">View Document</a>

<b>7.1.12</b> <b>Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff</b>	
<b>Response: Yes</b>	
<b>7.1.13 Display of core values in the institution and on its website</b>	
<b>Response: Yes</b>	
<b>File Description</b>	<b>Document</b>
Provide URL of website that displays core values	<a href="#">View Document</a>
<b>7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations</b>	
<b>Response: Yes</b>	
<b>File Description</b>	<b>Document</b>
Details of activities organized to increase consciousness about national identities and symbols	<a href="#">View Document</a>
<b>7.1.15 The institution offers a course on Human Values and professional ethics</b>	
<b>Response: Yes</b>	
<b>7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions</b>	
<b>Response: Yes</b>	
<b>7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years</b>	
<b>Response: 25</b>	
<b>File Description</b>	<b>Document</b>
List of activities conducted for promotion of universal values	<a href="#">View Document</a>
<b>7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities</b>	

**Response:**

The Institution celebrates the national festivals like Independence day, republic day to inculcate the patriotism among the students and to understand the struggle of our great freedom fighters and leaders who sacrificed their life to free our nation from British rule. By the celebration of festivals like birth anniversaries of great personalities like Swami Vivekananda, Mahatma Gandhi, Ambedkar, Basavanna and various other leaders we try to incorporate the human values among students as well as faculties by arranging special talks from invited speakers. We also remember our leaders who sacrifice their life for the nation on their death anniversaries. Faculties motivate the students to become good citizens of our society by teaching them good practices. Students are taught with humanity subjects like languages, Constitution of India in their regular curriculum .So that they should know the human values and professional ethics.

**7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions****Response:**

The Institution undergoes central/state audit every year which checks the sanctity of the financial transactions. Institution follows the UGC norms and regulations in the teaching recruitment process. Regulation of Karnataka State University act is maintaining administrative work for teaching faculties and for nonteaching KCSR rules are followed. There is complete transparency in the financial and administrative functions. The Government policies and acts such as RTI and Sakaala services have been well implemented in the institution.

**7.2 Best Practices****7.2.1 Describe at least two institutional best practices (as per NAAC Format)****Response:**

University College of Science a constituent college of Tumkur University has obtained the NAAC 'A' grade re-accreditation in August 2012 and based on the NAAC grading in the state we were offered to apply for the status of College with Potential of excellence and selected in the scheme of UGC in 2016. The institute has taken the initiative of **Promotion of Research and Extension Activities** and **Academic Excellence** as two best practices. From the last five years, all the faculty members were well supported by the institution to take-up the major/minor research projects from various funding agencies. Faculty members have actively involved in research by setting up their own research laboratory and also collaboratively by MOUs with academic institutions and Industries. College has supported the faculty members to take-up the post doctoral fellowships, faculty development programmes under the UGC scheme. By these we have published quality research articles in reputed journals and promoted the faculty to complete their Ph.D work. In the last five years we have identified active, potential students in our institute and were promoted to take-up the projects from various funding agencies under students project schemes, through these projects students have published research articles in the conferences and seminars. We have conducted workshops for students where the students have gained hands on experience in various

field of science and technology. 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. In 2016-17, CBCS was introduced; students are able to choose subjects of their choice by following the CBCS guideline. College offers new skill based and job oriented B.Voc., course "Hardware Technology and Networking" sanctioned by UGC under the skill development programme this prepares students for future success in academic growth and job opportunities and entrepreneur promotion among student community. Periodic monitoring of attendance has helped the students to be regular. Internal assessment tests helped 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. Students were promoted to develop experimental and soft skills through 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. From past three years our college is celebrating international **yoga** day by organizing the activities like yoga training in the campus, yoga competitions and so many activities to enhance the awareness about yoga benefits. **Gymnasium** was setup from last 3 years which is effectively used by our students and faculties.

(Two institutional best practices are described in the attached format at "Any additional Information" of this section).

File Description	Document
Any additional information	<a href="#">View Document</a>

### 7.3 Institutional Distinctiveness

#### 7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

##### Response:

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.



## 5. CONCLUSION

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### **Additional Information :**

#### **Our Core Values:**

We, the University College of Science Tumkur, are committed to:

Excellence in Education – Offer a rigorous, high quality education to all students.

Student Success – Place learner needs at the center of our academic and service planning, policies, and programs.

Education Access – Provide all qualified students with access to higher education.

Diversity – Achieve multicultural understanding as a priority of educational and civic life.

Integrity – Operate with fairness, honesty, and the highest ethical standards to sustain a community of trust and sustainable operations and education.

The college has vibrant Alumni association which is playing active role in the development of the college. The association members are meeting regularly and strategizing for the continuous growth of the college. The fact the alumni of the college have excelled themselves in diverse fields of service and responsibility is proof enough that our approach is valid and wholesome.

### **Concluding Remarks :**

With illustrious past of producing luminary citizens, the college is striving ahead with interminable confidence. Major strength of the institution being its dedicated and hardworking faculty members and reasonably good infrastructure that augment imparting quality science education in the region. The College predominantly caters to a rural student population who have come from marginalized sections of the society. Major portion of its students belong to the SC/ST and other OBC communities and female students constitute nearly 65% of the total strength. As such, the entry-level barriers faced by these students are immense and requires dedicated efforts on the part of the institution to cater to the special needs of students, most of whom are first-generation learners. The College has instituted a series of remedial measures including special coaching, skill-enhancement programmes and student-capacity building through personality development programmes and outreach and extension activities which provide the much-needed social and cultural reinforcement for students to excel in their academic lives and beyond.