



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

K S SCHOOL OF ENGINEERING AND MANAGEMENT

K S SCHOOL OF ENGINEERING AND MANAGEMENT NO. 15/1,
MALLASANDRA, OFF KANAKAPURA ROAD

560109

www.kssem.edu.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

(Draft)

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

The Kammavari Sangham, a multi-activity non-profit oriented voluntary service organization, was established in the year 1952 with the sole objective of providing charitable services to the community and the society. Since its establishment, the Sangham has diversified its activities. Kammavari Sangham entered the educational arena by starting K.S. Polytechnic in 1992. Enthused by its success, the Sangham moved forward to start K.S. Institute of Technology (KSIT) in 1999 that made a mark in the field of technical education. Motivated by this success, the Sangham further started K.S. School of Engineering and Management (KSSEM) in the year 2010 and K.S. School of Architecture (KSSA) in the year 2014.

The campus of K S School of Engineering and Management, nestled in a quiet location 'off the Kanakapura Main Road', provides good facilities that are required for quality technical education.

KSSEM's strength lies in its good vision; dedicated, experienced and well qualified teaching staff; the establishment with recent equipment in the laboratories and the interactive relationship that it has forged with the industry; all with the active support of an eminent Management. KSSEM is offering five Under Graduate courses namely Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering. It is also offering M Tech course in Structural Engineering and Masters in Business Administration. With an impetus to promote research culture in the institution, post graduate programs in the departments of Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering were started but as the response for these PG courses dwindled, the institution was forced to close the same except in Civil Engineering. Research Centres, in the above Departments, are however functioning.

Vision

VISION

To impart quality education in Engineering and Management to meet technological, business and societal needs through holistic education and research.

Mission

MISSION

K.S. School of Engineering and Management shall,

- Establish state-of-art infrastructure to facilitate effective dissemination of technical and managerial knowledge.
- Provide comprehensive educational experience through a combination of curricular and experiential learning, strengthened by industry-institute interaction.
- Pursue socially relevant research and disseminate knowledge.
- Inculcate leadership skills and foster entrepreneurial spirit among students.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

KSSEM is a safe, ragging free and beautiful green campus with very good infrastructure. The institution has advantageous location being in Bengaluru and also has a good connectivity by road and metro rail. The institution operates a fleet of buses for the benefit of both students and staff.

The institution has adequate infrastructure with ample floor space for classrooms, labs and common areas. All the buildings are well ventilated and illuminated. The building has adequate staffrooms, separate boys and girls common rooms and common areas.

There is a good canteen facility that caters to the needs of the students and staff. The Institution has well equipped seminar halls. Hostel facility is available for both for boys and girls. Boy's hostel is located in the campus and girls hostel is housed in own building situated within 2 km radius from the campus.

The Institution has a well-established placement centre, actively provides training from semester one to semester eight, ensuring overall development and placement to the students. There is a well-equipped library that can cater the needs of students and faculty, providing access to e-journals and other e-learning resources through VTU Consortium.

The institution has a good teaching-learning environment with dedicated and experienced faculty. Faculty are encouraged to participate in various academic activities such as FDPs, seminars, workshops and University assignments.

The institution encourages students' participation in seminars, conferences, workshops, Hackathons and other competitions. The training and development programs are arranged for students to improve confidence levels, analytical skills, presentation skills, communication skills and technical knowledge.

Students are also motivated towards social responsibilities by participating in NSS, Rotaract Club and Swatcha Bharath Abhiyan etc. The institution conducts project exhibition, sports day and technical fest that help in overall learning and all round growth of students. The institution provides fee concession to students to motivate meritorious students by reducing their college fee which is other than the government scholarships.

Institutional Weakness

The admissions are dropping since two years with the advent of private Universities. This is also reflected in the low CET rank of admission seekers. Drop in CET rank and admissions have high impact on number of eligible students available for placements and number of core companies visiting for placements. Alumni association is not registered yet and alumni response also is yet to pick up.

Though the teaching faculty are well qualified, it is very difficult to attract and retain qualified non-teaching and support staff. The ICT facilities have many limitations in terms of band width, speed and reliability.

All classrooms are not equipped with LCD projectors and other ICT facilities.

Though six Departments have been recognised as research centres by the affiliating University, there is a scope to improve in terms of research infrastructure and Ph.D. registrations. There is no Centre of excellence. Funded research projects, consultancy opportunities and institutional memberships are limited.

Institutional Opportunity

KSSEM, being located in IT city of Bengaluru, has a good opportunity to improve industry-institute interactions which in turn will enhance technical skills and placement. The institution can utilize the available talent from the industry and arrange a number of guest lectures / workshops. Further, the institution can concentrate on branding for improving both quality and quantity of admissions. A good alumni base can be developed that will be of immense help to students and faculty to upgrade as per industry requirements.

The existing ICT facility could be enhanced to improve teaching learning experience of students.

There is a good scope of improving research in the institute by improving the quality and quantity of publications, proposals, consultancy and participation in the professional bodies.

Institutional Challenge

The institution has challenges in the admission of good students. KSSEM has to strive for improving the student's quality to produce industry ready graduates and entrepreneurs.

The institution need to keep pace with the rapid changes in Technology. Placement office should try to attract core companies for job placement. The institution has to put more efforts in transforming the internships to placements.

The institution needs to focus on improvement of quality and quantity of research in terms of publications, funded projects, consultancy and patents.

Due to self-financed nature of the institute, there are limitations. The institution has to try and get more sponsorship for FDPs and other students' activities.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Institution is affiliated to the Visvesvaraya Technological University (VTU), Belgaum, and the curriculum is designed and developed by the affiliating University. This curriculum is delivered across all the affiliated institutions. The subjects to be handled during the odd / even semesters are listed during each semester and faculty members are identified to teach the subjects, based on expertise, prior experience and also individual preference. The faculty members are encouraged to implement teaching methodologies and delivery mechanisms beyond blackboard teaching. These include the use of slideshows, videos, quizzes, seminars, site visits, industrial visits, etc.

Faculty actively participate in the curriculum design by participating in the syllabus revision workshops in which members of Board of Studies and senior faculty from various Engineering institutions are invited and asked to share their views on the proposed curriculum. Academic flexibility and bridging the gap between curriculum and industry is achieved by conducting add on courses, seminars and tie-ups through MOU's with leading industries, training institutions and other technical bodies like IEEE, CSI, ACCE and ISTE. The institute has a system to identify slow learners and takes care of them by conducting remedial classes

The institute conducts Personality Development Programs through placement and training cell. A sense of social awareness and community service is inculcated in the students through various NSS activities. The curriculum implementation and monitoring processes are developed and are well documented. The curriculum has incorporated the CBCS scheme and offers electives in all the programs.

The institution is having six research centres through which about thirty one research scholars are pursuing their Ph.D. work. Four faculty of the institution have completed their Ph.D. from the research centre of KSSEM and 60 more have registered either in the research centre of the institution or in other research centres.

The institute regularly conducts the feedback on curriculum and teaching learning processes. The outcomes of feedback are seriously discussed to take corrective measures.

Teaching-learning and Evaluation

Excellence in teaching and learning is achieved by competent teaching faculty. Student admissions are done through a Central Admission Process carried out by Karnataka Examinations Authority that allocates the seats based on the Centralized Admission Test known as Common Entrance Test (CET) and also through COMED K and Management quota. The Institute abides by the Government of Karnataka Regulations with respect to the admission process.

Meticulous lesson planning is done prior to the commencement of the semester. Institute practices are a blend of traditional teaching as well as student centric learning practices such as Project Based Learning (PBL) and Participatory Learning. The lesson plan execution is also monitored. Tests and tutorials are conducted on a regular basis to ensure that the students grasp the concepts being delivered in the classrooms and laboratory sessions.

CO-PO mapping is done for each subject and CO-PO attainment is evaluated based on the internal test and external examination marks and evaluated at the end of each semester. Bloom's taxonomy is used in the

internal test question papers indicating the CO levels of the questions. A feedback mechanism for the faculty by the students facilitate in continuous improvement in teaching learning process. The faculty members prepare the academic plan, course plan for effective delivery in the class rooms. The student centric methods like experiential learning, participative management and problem solving methods are employed at program level and at course level.

The Program Objectives (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) are well stated by the Departments and displayed on the institution website, notice boards and classrooms. The PSO's are aligned with the vision and mission of the Departments and Institution. The Course Owners / teachers frame the COs by using Bloom's taxonomy and also discuss these COs with the students. The stakeholders are also involved in refining the PSO's.

Research, Innovations and Extension

Research has been considered as an integral part of academic endeavors of the institution. The R&D centres in the institution are established to focus on the current areas. The faculty members are encouraged to enroll for the PhD program and 60 of them are pursuing their Doctoral program (27 from KSSEM and 33 from other institutions.) Four faculty members have already been awarded their Ph.D. degrees from KSSEM research centre.

Faculty are encouraged to submit research proposals for funding to DST, NRB, VGST, SERB etc. During last five years, more than 30 proposals have been submitted from various Departments. Research and Project proposals worth around 50 lakhs have been sanctioned by the funding agencies. The institution has created an appropriate ecosystem for Research and Innovation by recruiting appropriate human resource.

Faculty are encouraged to attend FDPs, conferences seminars and workshops organized within the institution as well as in other sister institutions. Eminent Scientists from Centres of Excellence and Professors from premier institutions are invited to interact with students and faculty. Doctoral Committee Meetings are conducted periodically to monitor the status of work of the research scholars and give additional insights..Faculty have published books, chapters from reputed publishing houses like PHI India etc.

Students, under the strict supervision of their guides, are motivated to undertake innovative projects in emerging fields and are encouraged to submit project proposals to funding agencies like KSCST. They are encouraged to present and publish research papers in reputed conferences and journals.

To expose students to real life real time Engineering applications industrial and site visits are arranged. The Institution has MOUs with different industries and educational and training institutions. Students take up Internships in these industries as well as in Public Sector Units during semester breaks to gain first-hand knowledge of working in the real organizations and other systems.

Infrastructure and Learning Resources

Institution has provided all the facilities and resources that facilitate teaching-learning environment. The Institute has 32 well equipped class rooms; 11 tutorial rooms, 46 laboratories, four seminar halls and four workshops. The classrooms are monitored through CCTV cameras. Few classrooms are also equipped with LCD projectors to aid better teaching-learning interactions.

The central library has a good collection of 5125 titles with 19,966 volumes of books, 6 e-journals platforms and 6 portals furnishing e-books. The institution is member of VTU E - Consortium. The library is automated using LIB Soft 9.8.5, Web OPAC and Digital library facility. The central library has a reading hall with a seating capacity of over 150 students. 4TB of NPTEL videos from IIT Madras has been procured and made available to staff and students.

Syllabus is normally revised ones in four years by the affiliating University but also revised on the instructions of UGC and other regulatory bodies. Whenever there is a revision of the syllabus with the introduction of new courses, the necessary text books, reference books, software and hardware are purchased and procured to support these new courses / programs. Some of the software's are procured from open source while others are purchased. Operating System (OS) is also upgraded frequently.

The institution has laboratories with well established procedures that are meticulously followed. Boards giving "Do's and Don'ts" are displayed. All laboratories have manuals for conduction of experiments, log-in registers, stock registers and other documents. Regular stock verification and periodic servicing of equipment in laboratories are done both at the beginning and at the end of each semester.

The institution has developed good sports facilities on the campus. These facilities are looked after and maintained by the Physical Education Department manned by a Physical Education Director who is highly motivated in bringing the students to the grounds and make them have some sporting activity

The institution has a good landscape that adds an aura to the entire campus. The housekeeping staff ensure the hygiene and cleanliness of the campus. The institution runs buses in 13 routes. The entire campus has CCTV surveillance.

Student Support and Progression

Each student has a faculty mentor and receives regular counseling with regards to academics and other activities.

Students are provided scholarships under various Government schemes. 2175 students were beneficiaries of these scholarships during the last five years. Management also provides fee concession to some eligible and deserving students. 391 such fee concessions were given during last five years.

Placement & Training assistance is given to imbibe aptitude, soft skills and other skills. Regular training and assessment tests are conducted to aid recruitment. Maximum number of eligible students are placed in good companies.

Students actively participate in sports, cultural activities, project exhibitions etc. Students have participated and have won in the national level competitions like Hackathons and Robotics competitions. Students have won 25 awards at National and University level competitions.

Institute has a strong Alumni Association. The alumni assist in conducting many technical events and contribute by addressing the students about latest developments and needs in the industry. Alumni meet was usually conducted in the institution every year on January 26th that was well attended. With first batch of students graduating in the year 2014, the alumni base of institution is growing. The alumni are engaged in various fields ranging from higher education in NITs and IITs, as well as in countries like US, UK and

Australia. Alumni are employed in major MNCs like SAP Labs, NTT Data, Infosys, Toyota Industries etc. Many are employed in start-ups, some become entrepreneurs and take responsibility in running their own family businesses.

Students of KSSEM actively participate in the NSS activities. The NSS unit conducts programs like blood donation camps, women's day, youth day in the campus. Students are encouraged to participate actively in activities like National Integration Camps, Swatch Bharath etc. Students are also encouraged to take up socially relevant projects and make an impact on the society.

Students are motivated to pursue higher studies. Many students are pursuing higher level programs in various countries as well as in reputed institutions in India.

Governance, Leadership and Management

The institute is governed by a Governing Council that comprises of the following members:

1. President of the Kammavari Sangham
2. Secretary of the Kammavari Sangam
3. Treasurer of the Kammavari Snagham
4. Past President
5. Past Secretary
6. Nominee of the AICTE
7. Nominee of the GOK
8. Nominee of VTU
9. Chief Executive Officer (Special Invitee)
10. Principal/Director (Member Secretary)

The Governing Council sets the tone for the functioning of the Management that comprises of the President, Secretary and Treasurer who take active interest in governing the day to day activities.

There is an Academic Advisory Board (AAB) to advice the Management in all academic issues. The member secretary of the AAB is also the Chief Executive Officer who will help the management and AAB to implement all the decisions taken through the Principal and Head of Departments. This structure has yielded good results in governing the institution. There is also an IQAC cell which initiates and reviews the quality initiatives of the institution.

The institute organizes annual Cultural Festival 'Arohana', which is the annual social gathering for the overall development of the students and also to inculcate leadership qualities among them.

The institutional leadership firmly believes that the faculty members are the foundation of the institution. Thus faculty recruitment is done very strictly as per the skill sets required to build the Departments through a series of screening. Shortlisted candidates are asked to appear before selection panel for an interview. Faculty on completion of their Doctoral Degree will give a presentation before the Screening Committee consisting of the Chairman AAB, Management, CEO, Principal and Head of the Department.

IQAC ensures clarity for institutional functioning to achieve and enhance quality culture by adopting best practices to enhance the quality of students. The main goal of IQAC at KSSEM has been to bring about a

transition towards a learner-centred approach in teaching-learning to enhance students' participation in class rooms.

Institutional Values and Best Practices

Kammavari Sangham group of Institutions is committed to the practice of ideals and promotion of social and natural justice, human dignity and rights of all employees and students. Hence, it realizes the significance and also the need for having a policy in terms of Gender equity, safety and social security, counseling, protection against sexual harassment to all individuals whether he/she is a staff, faculty, student or support staff.

Closed circuit cameras are fixed inside the classrooms and corridors for security reasons. The girl's hostel is also equipped with CC cameras in addition to the security that is provided. The institution has provided an ambulance service in the campus in case of any emergency. Awareness programs on safety and security is conducted as a part of NSS activity separately for girls and boys.

Mentors give an opportunity to students for expressing any of their difficulties and the reasons for their poor performance. The Mentors after exploring the root cause help the students to see things more clearly and overcome their difficulties..

Statutory committees like Anti Sexual Harassment Committee, Anti-Ragging Committee, Grievance Redressal Committee have been functional since the inception of the institution to address any issues. The students are free to approach the members of these committees and share their grievances.

KATALYST is a program conducted for the girls of economically weaker background through HCTS (Human Capital for Third Sector). Students are recognized, counseled and training classes are conducted to help them get placed in good companies.

The campus is full of greenery with utmost priority given to cleanliness. Facilities are created for handling solid and liquid waste separately. For promoting cultural and regional harmony in the institution, KSSEM has been observing festivals such as Onam, Ganesh Chaturthi, Ayudha Pooja and Kannada Rajyothsava. To promote communal harmony, institution supports Muslim students for offering prayers on Fridays by facilitating them with a prayer room. The institution also celebrates all national festivals like Independence day, Republic day and Gandhi Jayanthi with the committed involvement of students and faculty.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	K S SCHOOL OF ENGINEERING AND MANAGEMENT
Address	K S SCHOOL OF ENGINEERING AND MANAGEMENT No. 15/1, MALLASANDRA, OFF KANAKAPURA ROAD
City	BENGALURU
State	Karnataka
Pin	560109
Website	www.kssem.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	K.RAMA NARASIMHA	080-28425012	9900633688	080-28425164	principal@kssem.edu.in
Professor	VIJAYALAKSHMI AKELLA	080-28425013	9845399068	080-28435723	hod.civil@kssem.edu.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details				
Date of establishment of the college		14-07-2010		
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
State	University name		Document	
Karnataka	Visvesvaraya Technological University		View Document	
Details of UGC recognition				
Under Section	Date		View Document	
2f of UGC				
12B of UGC				
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
AICTE	View Document	10-04-2019	12	

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	K S SCHOOL OF ENGINEERING AND MANAGEMENT No. 15/1, MALLASANDRA, OFF KANAKAPURA ROAD	Urban	4.4	23000

2.2 ACADEMIC INFORMATION

NAAC

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering	48	PUC or Diploma	English	72	31
UG	BE,Computer Science And Engineering	48	PUC or Diploma	English	144	125
UG	BE,Electronics And Communication Engineering	48	PUC or Diploma	English	144	107
UG	BE,Electrical And Electronics Engineering	48	PUC or Diploma	English	72	9
UG	BE,Mechanical Engineering	48	PUC or Diploma	English	72	36
PG	Mtech,Civil Engineering	24	BE or BTECH	English	24	6
PG	Mtech,Computer Science And Engineering	24	BE or BTECH	English	18	0
PG	Mtech,Electronics And Communication Engineering	24	BE or BTECH	English	24	0
PG	Mtech,Mechanical Engineering	24	BE or BTECH	English	18	0
PG	MBA,Master Of Business Administration	24	Bachelor Degree	English	60	33

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	12				18				68			
Recruited	8	3	0	11	11	6	0	17	31	37	0	68
Yet to Recruit	1				1				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				41
Recruited	25	16	0	41
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				27
Recruited	19	8	0	27
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	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.	8	3	0	0	1	0	3	3	0	18
M.Phil.	0	0	0	0	0	0	0	1	0	1
PG	0	0	0	11	5	0	28	33	0	77

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	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	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	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	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	3		2		5

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
UG	Male	581	105	0	0	686
	Female	470	40	0	0	510
	Others	0	0	0	0	0
PG	Male	37	4	0	0	41
	Female	56	9	0	0	65
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	6	17	16	8
	Female	4	4	9	4
	Others	0	0	0	0
ST	Male	2	4	6	2
	Female	0	0	2	0
	Others	0	0	0	0
OBC	Male	49	62	94	85
	Female	30	42	58	54
	Others	0	0	0	0
General	Male	110	133	158	181
	Female	118	86	114	114
	Others	0	0	0	0
Others	Male	9	14	13	9
	Female	11	11	7	13
	Others	0	0	0	0
Total		339	373	477	470

3. Extended Profile

3.1 Program

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

2018-19	2017-18	2016-17	2015-16	2014-15
367	368	362	354	342
File Description		Document		
Institutional data prescribed format		View Document		

Number of programs offered year-wise for last five years?

2018-19	2017-18	2016-17	2015-16	2014-15
10	10	10	10	10

3.2 Students

Number of students year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1309	1382	1581	1586	1628
File Description		Document		
Institutional data in prescribed format		View Document		

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

2018-19	2017-18	2016-17	2015-16	2014-15
177	168	168	138	154
File Description		Document		
Institutional data in prescribed format		View Document		

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

2018-19	2017-18	2016-17	2015-16	2014-15
334	370	396	442	346
File Description		Document		
Institutional data in prescribed format		View Document		

3.3 Teachers

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

2018-19	2017-18	2016-17	2015-16	2014-15
104	105	107	117	110
File Description		Document		
Institutional data in prescribed format		View Document		

Number of sanctioned posts year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
98	98	98	98	98
File Description		Document		
Institutional data in prescribed format		View Document		

3.4 Institution

Total number of classrooms and seminar halls

Response: 47

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
281.53	214.6	254.33	317.05	284.3

Number of Computers

Response: 459

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 Institution is affiliated to the Visvesvaraya Technological University (VTU), Belgaum. The curriculum is designed and developed by the affiliating University that is delivered across all the affiliated institutions. Thus, the institution has the responsibility of adopting and adhering to the following instructions given by the affiliating University:

- **Academic Calendar** - The University provides the Academic Calendar for every Semester well in advance. Based on this, the committee comprising of the Principal, HoDs and IQAC Coordinator frame the institutional calendar that will be a derivative of the VTU Academic Calendar.
- **Departmental Calendars** - Based on the Institutional Calendar, the HoDs and the faculty members of each Department will prepare the Department Calendar, that plans and depicts the Departmental activities.
- **Subject Allotment** - The subjects to be handled during the semester are identified and faculty members are chosen to teach the subjects based on areas of expertise, prior experience and individual preference.
- **Time Table** - The Time Table co-ordinators of each Department prepare the individual and class time tables for the semester, ensuring adherence to the calendar of events and hours mandated by the University. These are then published to the students and faculty.
- **Lesson Plans** - The faculty members prepare Lesson Plans for their subjects based on the time table and calendar of events to effectively plan their curriculum delivery.
- **Innovative Teaching Methodologies** – The faculty members are encouraged to implement teaching methodologies and delivery mechanisms beyond blackboard teaching. These include the use of slideshows, videos, quizzes, seminars, site visits, industrial visits, etc.
- **Bloom's Taxonomy** – The COs for each course are defined and the Internal Assessment and Assignment question papers are framed to encompass Bloom's Taxonomy.
- **Performance Assessment will be through two different components:**
 - **Continuous Internal Assessment (CIA):** This is done through three Internal Assessment tests and three Assignments, in each semester..
 - **Semester End Examination (SEE)** - Semester End Examination is conducted by the University. Following the announcement of University results, the Departments analyse the results..
- **Mentoring** – Each student is assigned to a faculty member who acts as a mentor. The mentors discuss with their students issues related to academics performance and attendance, and discuss the same with their subject teachers and parents.
- **Student Feedback** – Students' feedback is taken twice during every semester, as it facilitates corrective measures to be taken.
- **Class Committees** - The class committee comprising of class representatives, class teachers and HOD, meet periodically every semester, to review coverage of the syllabus and other grievances, if

any.

- **Faculty Meetings** – Principal conducts regular meeting with HODs, and they will, in turn, conduct frequent meetings with their faculty to discuss various academic and non-academic issues, so that actions can be deployed in an effective and timely manner.

File Description	Document
Upload Additional information	View Document

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

The Academic calendar of the Institute ensures effective and timely delivery of curriculum and management of co-curricular activities and helps the teaching fraternity to design lesson plans in an organized manner following the academic calendar in letter and spirit.

- The calendar of events provided by the affiliating University indicates the commencement and closing dates of the semester and dates for semester end examinations.
- The Academic Committee consisting of the Principal, HoDs and IQAC Coordinator come out with the Institutional calendar, to ensure adherence to the number of working days. The number of teaching days, other important events during the semester, Government and local holidays are all indicated in the calendar.
- Based on the Institutional Calendar, the HoDs of each Department, in consultation with the faculty members, prepare the Departmental Calendar, and plan for all Departmental activities to be held during the ensuing semester.
- Academic activities are given priority and other activities are also planned without any disturbances to classes. Regular HoDs meetings and staff meetings are conducted to ensure adherence to the schedule given in the academic calendar. In case of any unexpected disruption on any working day, the Principal, along with the HODs meet and decide on the alternate working day to compensate.
- Several schemes that run parallel mandates conduction of three separate Internal Assessment Examinations, for Continuous Internal Assessment (CIA). Academic Calendar indicates the schedule for all the three Internal Assessment Tests (IAs). The three IA examinations are held during 5th, 9th, and 13th week after the commencement of the semester respectively.
- Practical (Laboratory / Workshop) sessions are integral part of Engineering curriculum and these sessions are conducted as per University syllabus and directions. Practical courses are continuously evaluated through the observation books and record books. At the end of the semester, an IA Test is conducted in the same manner in which the Semester End Examination (SEE) is conducted. Final IA marks for practical will be the sum total of marks scored in IA test and the average marks scored for the observation and record book. Fifty percent weightage is given to IA test and fifty percent weightage is given to marks awarded for record and observation.

File Description	Document
Upload Additional information	View Document

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

E. None of the above

D. Any 1 of the above

C. Any 2 of the above

B. Any 3 of the above

Response: B. Any 3 of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document
Any additional information	View Document

1.2 Academic Flexibility

1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Response: 100

1.2.1.1 Number of Programmes in which CBCS / Elective course system implemented.

Response: 10

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 22

1.2.2.1 How many Add on /Certificate programs are added within the last 5 years.

2018-19	2017-18	2016-17	2015-16	2014-15
4	5	5	3	5

File Description	Document
List of Add on /Certificate programs	View Document
Brochure or any other document relating to Add on /Certificate programs	View Document
Any additional information	View Document

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

Response: 20.97

1.2.3.1 Number of students enrolled in value added courses (beyond the curriculum) offered year-wise during last five years.

2018-19	2017-18	2016-17	2015-16	2014-15
220	441	419	281	194

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	View Document
Any additional information	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics ,Gender, Human Values ,Environment and Sustainability into the Curriculum

Response:

The Institution adheres to the curriculum prescribed by the affiliating University (VTU), which includes courses that integrate crosscutting issues relevant to Professional Ethics, Human Values, Environment and Sustainability.

- The students of this Institution, across all disciplines of Engineering and Management are required to study courses like Constitution of India, Professional Ethics including Human Rights, Cyber Law and Security, Environmental Studies, Technological Innovation and Management and Entrepreneurship. These courses introduce the students to vital issues outside their core domain of study and contribute towards the development of a socially responsible technical professional.
- The syllabus of each individual programme also include programme-specific courses related to topics like Sustainability Engineering, Alternative Materials, Waste Management, Environmental Protection, Alternative Energy Sources, Renewable Energy, Human Resource Management, etc. that educate and expose the students to issues relevant to society and environment.
- The Institution maintains a healthy environment and takes necessary initiatives for the holistic growth and development of its staff and students. The institution organizes various activities to promote student participation and exposure to various issues through activities like:
 - Expert talks and workshops
 - Social service activities through National Service Scheme (NSS)
 - Participation in Swacch Bharat Abhiyan.
 - Annual Blood Donation Camps

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document
Any additional information	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 22.94

1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
88	89	82	84	69

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year

Response: 53.02

1.3.3.1 Number of students undertaking project work/field work / internships

Response: 694

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni

E. None of the above

D. Any 1 of the above

C. Any 2 of the above

B. Any 3 of the above

Response: B. Any 3 of the above

File Description	Document
Any additional information (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

E. Feedback not collected

D. Feedback collected

C. Feedback collected and analysed

B. Feedback collected, analysed and action has been taken

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

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 68.25

2.1.1.1 Number of students admitted year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
339	373	477	470	542

2.1.1.2 Number of sanctioned seats year wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
648	648	648	648	636

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.2 Average percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 90.75

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

2018-19	2017-18	2016-17	2015-16	2014-15
91	129	185	153	161

File Description	Document
Average percentage of seats filled against seats reserved	View Document
Any additional information	View Document

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Response:

Every year the institution organizes an “Induction Program” for the newly admitted first-year students. In this induction program the Principal welcomes the new entrants and the students are introduced to:

- Various Heads of the Department
- Courses offered in different branches.
- University Regulations
- Institutional Procedures
- Professional and Co-curricular activities on the campus

The institution also conducts an orientation programs for the first-year students in which the Principal and respective HODs and faculty provide various information such as

- Academic Calendar
- Courses in the first year (both odd and even semester)
- Passing criteria
- Grading procedure
- All available Laboratories
- University Guidelines for the Examination (Internal and External Exam)

The institution has evolved a process for the identification of slow learners and the advance learners based on certain criteria. During the first year, slow learners are those who have scored less than 60% of marks (Physics, Chemistry and Mathematics) in the qualifying examination.

In the higher semesters, slow learners are identified by the individual subject teachers after the first internal assessment test. Those students who fail to secure 50% of the marks in the internal test in the respective subject will be identified as slow learners and listed by the concerned subject teacher.

A Department-level meeting is called by the HOD wherein a consolidated list of the slow learners is prepared by each teacher and remedial classes are planned for those students identified as slow learners. A time table is cast for remedial classes where the students are given inputs on how to approach a particular subject, understand the fundamentals and answer the questions in a better way to improve their marks in the successive tests along with boosting their confidence level to face the subsequent internal tests and semester end examination.

Various strategies are involved to handle the slow learners

- Remedial classes after the internal test
- Individual attention by the faculty
- Counseling and Mentoring to improve their confidence level

The students who are outside the list of “Slow Learners” are identified as “Advanced Learners” and are encouraged to involve in higher level activities in the Department like :

- Doing mini projects
- Volunteering and participating in technical events like competitions
- Encouraged to solve the challenging problems
- Orient towards preparations for taking up competitive examination
- Read various books, share ideas and indulge in promoting teamwork among classmates.

File Description	Document
Upload any additional information	View Document
Past link for additional Information	View Document

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Response: 12.59

File Description	Document
Any additional information	View Document

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:

The infrastructure and the staff of the institute encourage student centric learning. Having created an environment for student centric learning through experiential and interactive learning, the institute ensures that students actively participate in these processes.

Experiential Learning

The institution offers an extensive scope for practical knowledge acquisition through industrial visits to appreciate the application side of the technologies discussed in the class rooms. The students are encouraged to work on small and mini projects in the laboratories. Several concepts taught in the curriculum are demonstrated through laboratory experiments. The students are also encouraged to

undergo internships during their vacations to keep abreast of the developments in the industrial arena.

Participative Learning

Student centric activities like group discussions, extensive referencing, doing a Google search, sourcing secondary data, reading through available literature and understanding the nuances of published literature are induced into a day to day activity of the students by designing the assignments which encourage them to participate in these activities. The students are also encouraged to participate in guest lectures, professional body activities and competitions.

The Departmental club events are organized by student office bearers of the corresponding clubs such as ARCVIL, ENCRYPTONITES, EXCELTRON, DELTRONE, MECHTRIX and ADHAR with full participation.

Problem-solving Methodologies

The students are encouraged to solve a problem in a real-time domain. Students will take part in inter-college activities such as project exhibitions, tech skill forums, where they involve themselves with innovative ideas to develop models. Students also actively involve in Hackathons, model making events, where the student skills are displayed and recognized.

File Description	Document
Upload any additional information	View Document
Link for additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

In today's information era powered by the internet and the world wide web connectivity, anything and everything is available on the net. It is very easy for a teacher to expose his students to the state of the art technologies using these Information, Communication, and Technology (ICT) tools. Integration of ICT in education refers to the use of computer-based communication that can be used in classroom instructional process. In this regard the use of multimedia teaching aids like LCD projectors in designated classrooms, internet enabled computer labs and WIFI campus facilitates are enabled for teachers and students with a technology based teaching – learning environment.

The institution has education management software named PUPILPOD. Educational materials such as study materials, power point presentation are also made available to the students through PUPILPOD. The materials are uploaded to the PUPILPOD and is made available to the students during the entire semester. The students can access this resource anytime and anywhere by using computers, laptops, mobile phones or tabs with internet connectivity. Assignment questions and question banks are also provided to the students through PUPILPOD. These materials are available during a particular semester and students can access them by using their login ID.

The electronic resource packages like DELNET, NPTEL, SPOKEN TUTORIAL and Digital Library are made available to both faculty and students. Some faculty members effectively utilize Audio Visual aids to demonstrate the concepts to the students using the resources from National Program on Technology Enhanced Learning (NPTEL) and other online resources to enhance the learning experience.

Sufficient number of books, Journals, e-journals and e-books are available in the library. The research journals are available online and facility for accessing these journals is provided through proxy server in the campus.

Seminar halls are equipped with multimedia facility. Invited talks and webinars are conducted in seminar hall. Seminar hall is also used for showing education related videos from online sources.

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View Document

2.3.3 Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

Response: 16.16

2.3.3.1 Number of mentors

Response: 81

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

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

Response: 110.82

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 12.96

2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
17	14	13	12	14

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	View Document
Any additional information	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Response: 3.79

2.4.3.1 Total experience of full-time teachers

Response: 394

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Response:

- The institution is affiliated to Visvesvaraya Technological University (VTU) and conducts Continuous Internal Assessment as prescribed by University Regulation NO:17OB8.0
- The regulations, curriculum, and syllabus of all the programmes offered by the Institution are available in the Institute as well as in the University websites. The regulations contain the details of the evaluation process. Currently 2015, 2017, and 2018 regulation of CBCS schemes are being followed across different semesters.
- The institution prepares an Academic Calendar in line with the University Calendar before the commencement of the semester in consultation with the Heads of the Departments in which Internal Assessment dates are mentioned and same will be communicated to the students and also announced in the institution's website.
- Two sets of Internal Assessment question papers are prepared for each subject. Care is taken to ensure that both of them are at the same difficulty level. The Head of the Department will scrutinize the question paper for its syllabus coverage and difficulty level. The HOD also ensures that the question paper is of the University standard. One question paper will be selected by the Principal and given for distribution and conduction of the test.
- Internal Assessment Question Papers and Assignments are strictly prepared according to Bloom's Taxonomy.
- The process of evaluation is made transparent to the stakeholders. The answer booklets (blue books) will be evaluated within the stipulated time and the faculty ensures that the efforts that goes into internal evaluation lead to improvement of student's performance. The students are further made to understand their mistakes and ways to overcome them through remedial classes.
- Scheme of evaluation for internals is discussed with the students after each IA.
- The results of the Internal Assessment will be informed to the parents through Pupilpod.
- Three internal assessment tests are conducted and students need to attend all three tests as mandated by the University. Out of three tests, average of best of two tests are considered as final internal assessment marks for the 2015 scheme, and the average of three tests are considered for 2017 and 2018 scheme students respectively.
- Students who score less than 50 percent in the internal assessment test in each subject are identified as slow learners and remedial classes are conducted for them.
- In the laboratory, one internal assessment test is conducted covering all the experiments at the end of the semester.
- The signature will be obtained from the students once the marks are finalized as a proof of the student knowing his performance.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

Response:

All the grievances related to internal assessment are addressed in a transparent, time bound and efficient manner as explained below:

Internal Assessment

- The Academic Calendar shows the schedule for Continuous Internal Assessment for all the three Internal Assessment tests. The scheduled dates of Internal Assessment tests are shown as IA1, IA2 and IA3 in the academic calendar.
- The scheduled timetable for each internals IA1, IA2 and IA3 as approved by the HOD and Principal will be displayed on the noticeboard one week prior to the commencement of Internals tests. On the day of IA, the seating arrangement is displayed in the notice board. The duty allotment of the faculties is assigned by the internal test coordinators and is brought to the notice of all the faculty.
- Evaluation of answers is done by the course owners within a week from the date of internal tests. The corrected answer books (blue books) of the students are distributed to them for scrutiny. If any student points out any anomaly towards the evaluation process, the course owner will make the necessary correction and resolve the issue. If it is not resolved at this level, it is brought to the notice of the HOD.
- The marks obtained by the students in internal assessment tests are displayed on the department notice board. The marks obtained by the students in internal assessment tests are uploaded periodically on the PUPILPOD web portal along with their attendance. The attendance record of each student is maintained during the internals.
- The grievances are considered in the Class Committee meeting after each Internals assessment.

Lab Internals

- Lab experiments are conducted on a regular basis as per the lab schedule. Student must submit their observations and lab record regularly. The marks awarded by the teacher for each experiment is indicated in the observation/record book. The learning in the practical classes is tested by conducting viva voce. The student is expected to record the observed readings in the observation book that is evaluated by the faculty before leaving the lab. At the end of the semester, the lab internals time table is displayed on the notice board and is brought to the notice of students and staff one week in advance to the commencement of Lab internals. In case of a practical, the CIE marks shall be based on the laboratory journals/ records(30 marks on continuous evaluation based on conduct of experiment, viva and record writing) and one practical test (10 marks) to be conducted at the end of the semester as per the regulation No: 17OB8.3 of University.

The final average IA marks is finalized at the end of the semester and the same will be displayed on the notice board .The signature of all the students and the subject handling faculty are taken for both theory and lab marks before it is uploaded to VTU portal. Any grievances regarding IA marks are addressed until this stage. Once the marks are transmitted to the University, no more changes are entertained.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

The Institute is affiliated to Visvesvaraya Technological University (VTU), Belagavi and the University prescribes the curriculum. The institution has a well defined vision and mission, that governs all the Departments. The Programme Objectives (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) are well stated by the Departments and displayed on the institution website, notice boards, and classrooms.

The PSO's are aligned with the vision and mission of the Departments and Institution.

The respective course teachers frame the COs by using Bloom's taxonomy and also discuss these COs with the students. The stakeholders are also involved in refining the PSO's.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	View Document
Upload any additional information	View Document
Past link for Additional information	View Document

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Response:

The institute abides by a well-defined procedure of the Teaching-Learning process that is followed by all the Departments with students' development in focus. The process involves:

- 1.Planning,
- 2.Delivery and Assessment
- 3.Evaluation and Attainment

1. Planning

The University prescribes the syllabus (course content) for all the Programmes in the Institution. For every subject, the CO's are prepared by the Course owners (Subject teachers) and verified by the IQAC coordinator and the Head of the Department. The CO's are written down bearing in mind the different levels of Bloom's Taxonomy. The CO's focus on the objectives and outcomes. The lesson plan is prepared well in advance before the commencement of the classes based on the calendar of events of the institution and Department.

2. Delivery and Assessment

The planned contents are delivered in the respective classes as per the scheduled timetable. The course owner will go in phase with the lesson plan prepared. Vagaries, if any, will be taken care of during gap analysis. The method and schedule for the assessment, as defined by the University regulation is followed in letter and spirit. The Internal Assessment question paper also follows Bloom's Taxonomy and uses Action Verbs.

3. Evaluation and Attainment

The course owner evaluates the assessments and the same is documented. Based on the marks obtained, the attainment of the CO's and PO's are calculated. The calculation includes both direct and indirect attainment. Appropriate action is taken to improve the weak students to ensure that there is continuous improvement in the attainment levels. The attainment is calculated from different tables starting from the CO-PO-PSO matrix, Internal marks documents and External marks documents

The correlation of the CO, PO and the PSO is presented in a scale of 0 to 3 where 3 represents High, 2 indicates Medium and 1 is used for Low.

File Description	Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 92.42

2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
319	353	359	410	325

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
334	367	396	438	343

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View Document
Upload any additional information	View Document
Paste link for the annual report	View Document

2.7 Student Satisfaction Survey**2.7.1 Online student satisfaction survey regarding teaching learning process****Response:**

File Description	Document
Upload database of all currently enrolled students (Data Template)	View Document
Upload any additional information	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 52.39

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
1.5	0	20	0	30.892

File Description

Document

List of endowments / projects with details of grants

[View Document](#)

e-copies of the grant award letters for sponsored research projects / endowments

[View Document](#)

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 14.42

3.1.2.1 Number of teachers recognized as research guides

Response: 15

File Description

Document

Institutional data in prescribed format

[View Document](#)

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 13.33

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

2018-19	2017-18	2016-17	2015-16	2014-15
1	0	1	0	2

3.1.3.2 Number of departments offering academic programmes

2018-19	2017-18	2016-17	2015-16	2014-15
6	6	6	6	6

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document
Paste link to funding agency website	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

- The institution has created an appropriate ecosystem for Research and Innovation by recruiting desirable human resource. The institution has six, University recognized research centers. The institution has provided separate space for each research center equipped with relevant equipments which are useful to carry out research by the faculty and research scholars.
- The institution has fourteen state of the art Computer Labs. All the computers in the labs are provided with the latest updated software and hardware. Internet, printing and scanning facilities are also available through network. Further, each center is equipped with uninterrupted power backup.
- The institute is having separate R&D cell to inculcate the spirit and culture of research amongst faculty and students. The R&D cell comprises of faculty members from various Departments of the institution with Principal as the chairman.
- The faculty members are encouraged to undertake research projects in thrust areas in Science and Technology with funding from various agencies. During last five years, more than 30 proposals have been submitted from the institution. Projects worth around 50 lakhs have been sanctioned.
- The institution encourage the faculty members to pursue Ph.D, more than 50 faculty members are pursuing their Ph.D program. Computer with high bandwidth Internet facility is provided to the research scholars. Successful completion of research program leads to appreciation and academic career advancement.

- There are eight student clubs in the institution. Various activities are conducted under these clubs to motivate the students to involve in various research related activities, like mini project, project exhibitions, guest lectures, paper presentations, workshops etc. These activities help students to understand the various problems faced by the society. It enables them to find out solutions for them.
- Adequate provision is made for library to procure books, journals and e-journals. The library of the institution is enriched with wide range of books (19725 books + 12998 e-books) and more than 1680 national and international journals from various fields. Online IEEE journals are also accessible to the researchers.
- Institution is encouraging faculty and students to attend research programs, workshop, seminars and conferences conducted in the Institution and at other organizations. Institution provides registration fee and on-duty leave for those who attend such programs.
- The institution gives importance for all-round development of the students. Departments have signed MoU's with various industries. Under these MoU's many events like workshops, FDP's, guest lecturers, Technical talks are organized. Students are also sent to these industries for internships.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 0

3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
Report of the event	View Document
List of workshops/seminars during last 5 years	View Document

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 3.82**3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years**

Response: 65

3.3.1.2 Number of teachers recognized as guides during the last five years

Response: 17

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
Any additional information	View Document
URL to the research page on HEI website	View Document

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years**Response:** 0.15**3.3.2.1 Number of research papers in the Journals notified on UGC website during the last five years.**

2018-19	2017-18	2016-17	2015-16	2014-15
12	1	0	1	2

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**Response:** 1.09**3.3.3.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
30	8	14	34	32

File Description	Document
List books and chapters edited volumes/ books published	View Document
Any additional information	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

The institution strives to promote over all development of the students by encouraging them to participate in various co-curricular and extra-curricular activities to nurture them to be socially responsible. The institute is conscious of its role in the neighborhood community development and has initiated a number of community development activities that include:

- **Pradhan Mantri Kaushal Vikas Yojana(PMKVY):** Institute has organized training program to neighborhood youths, under PMKVY scheme, on industry-relevant skill training that will help them in securing a livelihood.
- **National Service Scheme:** Many social activities like swachha bharath, health awareness camps, awareness on cleanliness through street play, awareness programs against drugs, International Yoga Day Celebrations, Women's day, Street play by students and many such events were organized under this program.
- **Blood Donation camps:** The students and staff actively involved in organizing a Blood Donation Camps in conjunction with some service organizations like Rotaract . This activity was a part of their program that was awarded Gunnies World Record for highest units of blood donation on a single day.
- **NGOs :** The institution encourages students and staff to involve in various social activities through NGOs
- **Workshop for School and PU teachers:** To bring the awareness about the effective teaching methods, one-day workshop was conducted in the KSSEM campus for the School and PU teachers.
- **Trip for government school students:** One day trip had been organized for government school students to Visveswaraya Museum to develop interest in Science and Technology. In addition to this, the Management has involved in distributing books to the poor students of a Government school.
- **General health checkup and diabetes awareness camp:** The Management has taken several initiatives to organize health awareness programs such as general health checkup, polio and diabetes awareness camps to the residents of Mallasandra where KSSEM is located.

- **Spreading the awareness on ill effects of drugs:** An awareness program against drugs was organized in the institution with the help of Police personnel from Talaghattapura Police station. To promote the awareness on the ill effects of drugs abuse, the Bengaluru city Police had organised a walkathon in Lalbagh on 29th of September 2018 from 6 a.m to 8 p.m. Volunteers from NSS wing of the institution had taken part in this event. They also interacted with the locals and sought their help to stop the menace from widely spreading amongst the younger generation.
- **Projects:** Students are encouraged to work on various projects that contribute to the society and results in joining hands in building a better surrounding.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Response: 2

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

2018-19	2017-18	2016-17	2015-16	2014-15
0	01	01	0	0

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document

3.4.3 Number of extension and outreach Programmes conducted by the institution through NSS/ NCC/ Red Cross/ YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc.) and / or those organised in collaboration with industry, community and NGOs during the last five years.

Response: 19

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

2018-19	2017-18	2016-17	2015-16	2014-15
10	04	01	02	02

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 23.15

3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
699	280	234	280	157

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 342

3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
234	61	19	24	4

File Description	Document
e-copies of related Document	View Document
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	View Document
Any additional information	View Document

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 9

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

2018-19	2017-18	2016-17	2015-16	2014-15
2	3	3	1	0

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document
Any additional information	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Response:

The institution has state-of-the-art facilities for teaching-learning process which are highlighted below:

A. Classrooms

- Each class room is designed and maintained as per AICTE norms with respect to carpet area, lighting, ventilation and furniture to have a conducive ambiance.
- Classrooms are provided with LCD projectors. Faculty members are given desktops by the Institute to extensively use ICT in class rooms.
- Institution has four spacious seminar halls and an auditorium with state-of-the-art facilities.

B. Laboratories

- Each lab / workshop with appropriate layout is designed and maintained as per AICTE norms with respect to carpet area, lighting, ventilation and furniture to have a conducive ambiance and practical exposure.
- Laboratories are well equipped with adequate number of experimental set-ups, computers and peripherals. Qualified lab instructors / Mechanics are allotted for all the lab batches for its smooth functioning.
- Special care is taken to ensure that the students conduct all the experiments as per the University syllabus.
- More than 7 MOUs are signed with various industries.
- In addition, R&D labs in Civil Engineering, Mechanical Engineering, Electronics and Communication Engineering, Computer Science Engineering, Chemistry and labs in Electrical and Electronics Engineering and Physics are equipped with appropriate equipment help to carry out research activities to a greater extent.

C. Computing Facility

- There are 607 desktops, 5 laptops, 32 printers, 9 scanners and few servers which are adequate in number for computational and related purposes.
- Uninterrupted power supply (UPS) is made available in the institution so that the students and staff can access the computers without any interruption. There is a generator with a total capacity of 250 kW for power back-up and UPS facility available for each Department.

College has been a preferred venue for various exams and evaluation due to the excellent infrastructure facilities. like VTU valuation centre, COMED-K exam centre, GATE exam centre, DEEKSHA PU exam centre, banking exams centre etc.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga etc.

Response:

K. S. School of Engineering and Management has a very active Physical Education Department with adequate facilities for sports, games, gymnasium, etc., The main motto of this institution is the overall development of the students and thus encourages students in occupying a major role in sports and cultural activities. The institution has provided facilities for conducting indoor and outdoor sports, games and cultural events. It encourages students to take part in intercollegiate, University, State, National and International level competitions. The institution has won many Gold, Silver and Bronze medals in the sports. The institution has two sports ground of area 902.66 square meter and 3203.63 square meter. It is developed for outdoor sports like Volley ball, Throw ball, Kabaddi, Basket ball and Indoor sports like Badminton, Carom, Chess etc., The sports Department is responsible in organizing and celebrating the National festivals.

Students are encouraged to organize various cultural activities in the institution like Independence day, Republic day, Ganesha Festival, Dasara - SaraswatiPooja, Teacher's day, Engineer's day, Yoga day, etc., There are other programs conducted by students like NSS camps, Blood donation camp, Social Awareness camps and so on. Every year the college festival "AROHANA" is conducted and various cultural competitions are conducted like Kalasanthe, mehendi, photography, quiz, Dumb charades, tug of war, counter strike, treasure hunt, minute to win it, Kannada Antyakshari, Collage, Mr. And Miss KSSEM, Dubsmash, Mad ads, solo-dance, group-dance, solo-singing, Mock IPL Auction, Cooking and Fashion show to show case their talent. An experienced cultural coordinator is nominated to encourage and monitor the students for taking part in all the cultural activities.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 76.09

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 35

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 15.95

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
43.97	11.25	15.39	62.00	94.57

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

Library Automation: Library has been fully automated using Licensed Library Management Software Package “Libsoft” Version 9.8.5. Modules viz., Acquisition, Cataloguing, Member Registration, Transaction, Documentation, Barcode, Statistics and WEB OPAC are being used. Libsoft 9.5.0 Professional Version was purchased in the year 2010 and was upgraded to 9.8.5 in the year 2018.

WEBOPAC: Users can access Webopac to search library collections viz., Books, Journals, Magazines, Compact Disks, Digital Contents viz., Question Papers, News Paper Clippings, Project Reports, Content Pages of Books and Journals can be accessed. URL to access Webopac is <http://202.62.79.52/opac/> Library users are provided with **User Name and Password** to use this facility. Users can check the bibliographical details of the library collections; its location; books borrowed by them. Library users can do online reservation for issued out books; can view the content pages of the books, journals and magazines. Virtual

Library has a link to all the e-resources subscribed through VTU consortium and open access e-resources.

KNIMBUS Remote Access Solutions: It is a web based knowledge discovery platform. All the subscribed e-journals viz., Elsevier's Science Direct, Springer Nature, Taylor and Francis, Institute of Civil Engineers, Emerald, and e-books viz., Elsevier's Science Direct, Springer, Taylor and Francis, McGraw Hill Education, New Age International, Packt and open source e-resources can be accessed at <http://kssemb.new.knimbus.com>. Users are provided with **User Name and Password** to access it.

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

E. None of the above

D. Any 1 of the above

C. Any 2 of the above

B. Any 3 of the above

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 12.39

4.2.3.1 Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
13.76	12.81	7.12	10.31	17.97

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.4 Percentage per day usage of library by teachers and students during the last completed academic year

Response: 12.46

4.2.4.1 Number of teachers and students using library per day over last one year

Response: 176

File Description	Document
Details of library usage by teachers and students	View Document
Any additional information	View Document

4.3 IT Infrastructure**4.3.1 Institution frequently updates its IT facilities including Wi-Fi**

Response:

For upgrading the IT infrastructure in the institution, the suggestions are received from HOD's of various Departments, faculty, System Administrator, Lab technicians and will be assessed in every academic year.

Upgradation of Software and Hardware

Syllabus is frequently revised by the affiliating University VTU. New courses are introduced in the revision based on industry needs. Whenever the new courses are introduced, the necessary software's and hardware are purchased. Some of the softwares are procured from open source and others are purchased. Operating System (OS) is also upgraded frequently.

Internet

The institution is equipped with 50 MBPS leased line. Internet facility and it is available in all the IT laboratories and also in the library. Students are having an access to the digital library to make use of the e-Journals and other e resources.

Online Question Paper Delivery System (QPDS) facility is available with 4 MBPS leased line to print the semester end examination question papers. This was updated in 2019.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 2.85

File Description	Document
Upload any additional information	View Document
Student – computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution

E. < 05 MBPS

D. 05 MBPS – 10 MBPS

C. 10 MBPS – 30 MBPS

B. 30 MBPS – 50 MBPS

Response: A. ?50 MBPS

File Description	Document
Upload any additional Information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and

academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 54.17

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

2018-19	2017-18	2016-17	2015-16	2014-15
173.77	103.75	132.03	185.31	143.33

File Description	Document
Upload any additional information	View Document
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View Document
Audited statements of accounts	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:

Laboratory

The institution has well equipped laboratories. Do's and Don'ts boards are displayed in each laboratory. All laboratories have maintained log-in registers to know the effective usage of the laboratory. Regular stock verification and periodic service of equipment in laboratories are done at the end of each semester. The lab instructor checks for the obsolete instruments / un-serviceable equipment at the end of semester and if anything has to be replaced, then it will be reported to the lab in-charge. The HOD will ask for the quotation from various suppliers and comparative statement is prepared. The supplier will be approved by the HOD, Principal and Management which is then procured. The equipment under warranty will be serviced as per the norms. Safety precautions like first-aid kit are kept in all the labs and fire extinguisher are placed in every floor.

Library

The institution library is fully automated with LIBSOFT® software developed by Environ Software Pvt. Ltd., Bangalore. There is regular stock verification process done by the library. It has maintained separate log-in registers for staff and students. The institution also has the facility of Digital library so that the staff, students and research scholars can access audio books, e-books, newspaper clippings, journals, NPTEL videos, soft copy of final year project reports of all UG/PG projects and also the old question papers. It has well maintained reading rooms.

Procuring of the books to the library is done in the following manner:

A request form is sent by the library to all the Departments. The filled forms are collected and compiling is done for the same. Quotation for the required books is procured from three different vendors and comparative statement is prepared. The vendor with least price is given the order, after approval from the Principal and Management. Books supplied are entered into the stock register and assigned with an Accession Number.

4TB of NPTEL videos from IIT Madras has been procured and made available to staff and students.

Sports Complex

The sports facilities are maintained by Physical Education Department. Stock registers and log-in registers are maintained. Stock verification of sports item is done on a regular basis. The institution as well as hostel, both have indoor and outdoor games facility. Gymnasium at hostel, indoor badminton court and basketball ground at the institution enthruse the students towards these sports. The college ground is used by the students to practice for sports events and also practice cricket.

Sports items are procured in the following manner:

A request letter for the requirement is given to the Principal. Quotations for the same are obtained from three different vendors and a comparative statement is prepared. The purchase order is placed with the vendor with the least price after approval from the Principal and Management.

Computers

Computers are maintained by system administrator. Inspection and service activities are being carried out in every semester. Log-in registers are maintained in all computer laboratories. All computer systems are connected with LAN. Each Department have separate computers for staff usage.

If there is any problem with the computers, then it will be immediately brought to the notice of system administrator, who will rectify it.

Classroom

The College has well-furnished and spacious classrooms. The classrooms are monitored through CCTV cameras. Few classrooms are also equipped with LCD projectors for better teaching-learning interactions. Regular inspection and maintenance of the furniture and the classroom equipment is done.

Garden and Landscape

Garden assistants are responsible to maintain lush green campus. Housekeeping staff ensure the hygiene and cleanliness of the campus. The regular cleaning of classrooms is done by housekeeping staff.

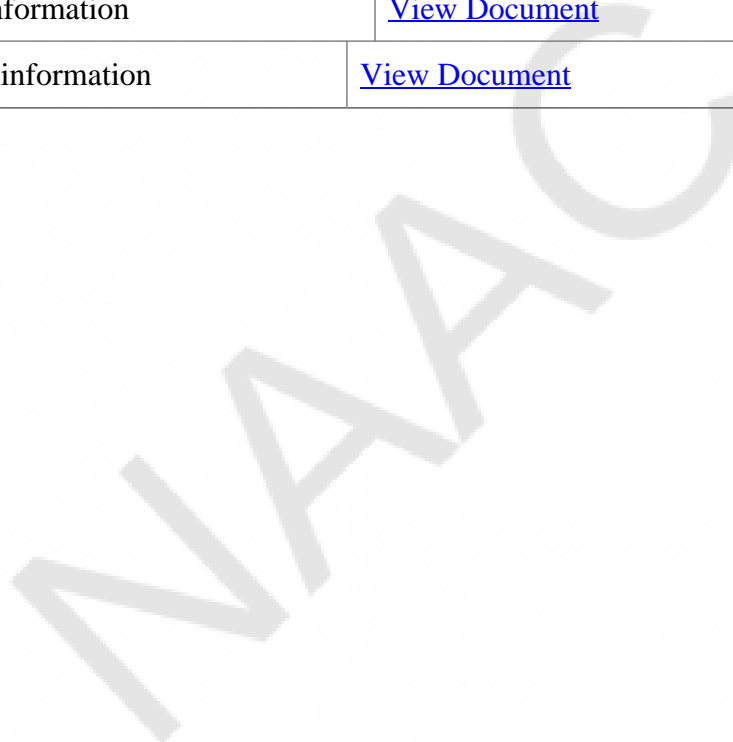
The institution has adequate 13 buses plying in 13 routes for safe and comfortable commutation of students and staff. There is free transport from the institution to K S Institute of Technology campus and up to the nearest Metro station.

The parking facility is well maintained. The entire campus is monitored through CCTV cameras, placed in areas which cover the entire campus zone.

Periodically all the buildings are inspected and repairs are carried out. All the buildings are painted depending on the requirement.

Maintenance of lifts, CCTV cameras and water purifier are done regularly.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document



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 last five years

Response: 30.09

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

2018-19	2017-18	2016-17	2015-16	2014-15
639	553	426	289	268

File Description

Document

upload self attested letter with the list of students sanctioned scholarship

[View Document](#)

Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)

[View Document](#)

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Response: 5.32

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution / non- government agencies year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
90	88	79	75	59

File Description

Document

Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)

[View Document](#)

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the

following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

Response: A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 70.6

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

2018-19	2017-18	2016-17	2015-16	2014-15
1204	1092	954	1533	407

File Description	Document
Number of students benefitted by guidance for competitive examinations and career counselling during the last five years	View Document

5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

Response: A. All of the above

File Description	Document
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

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

Response: 15.65

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

2018-19	2017-18	2016-17	2015-16	2014-15
62	48	77	58	49

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Details of student placement during the last five years (Data Template)	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years**Response:** 29.94**5.2.2.1 Number of outgoing student progression to higher education during last five years**

Response: 100

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education (Data Template)	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT/JAM/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)**Response:** 100**5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
9	3	8	6	1

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

2018-19	2017-18	2016-17	2015-16	2014-15
9	3	8	6	1

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 24

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) year-wise during the last five years.

2018-19	2017-18	2016-17	2015-16	2014-15
8	8	2	0	6

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	View Document
e-copies of award letters and certificates	View Document

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)

Response:

The institute encourages active participation of students in various administrative, co-curricular and extracurricular activities through their representatives. The institute follows following procedure while forming various bodies:

Class representatives are nominated at the beginning of each academic year, with each class getting a male and female student representative. The class representative may be unanimously nominated or rarely at times elected through an election process. This process is completed by the class teacher in presence of all the students of the class. The class representatives are involved in the entire decision making meetings related to students activities including formation of various bodies during the academic year. The class representatives also coordinate the Departmental forum activities under guidance of Head of Department, staff and other fellow classmates.

Class Committee Meetings are held after every internal test which is convened by Head of the Department and is attended by class representatives and staff members handling the various subjects. The students

attending this meeting are picked from three categories namely top, average and poor performers in class. The students are changed for every such meeting held after completion of internal test so as to involve more students in these meetings. Feedback about completion of syllabus and level of understanding as well as effectiveness of teaching is sought in these meetings

At the institute level the following committees are functional:

1. Anti Ragging Committee
2. Anti Sexual Harassment Committee (Internal Complaints Committee)
3. Tobacco Free Campus Committee
4. Grievance Redressal Committee

Each of these committees has student representation. These committees are responsible to ensure that they progressively monitor and report to the authority about any untoward incident. The committees are also responsible for addressing grievances raised, if any, and they are done effectively. The student representatives on these committees are nominated by the Principal and Heads of Departments.

The institution gives adequate importance for sports. The institution organizes a Sports Day during the beginning of the even semester during which all the athletic events are held and students and staff take active part in it. Students are given total responsibility to organize this event under the directions of Physical Education Director. The winners are awarded during “Aarohana” which is the cultural extravaganza of the institution.

In order to encourage and promote the art, literary and cultural interests a beautiful platform is created for the students to exhibit their talents. The entire festivities are managed and organized by student volunteers who are guided by faculty advisors. Various committees are formed to conduct “Aarohana” and rustic-themed festival “Kalasanthe”.

These committees comprise of staff members of the Departments nominated by respective head of Departments and student representatives selected by Head of departments, staff members and class representatives. Working on these committees provides excellent opportunities to students to hone up their administrative, organizing and leadership skills.

Students are also encouraged take up social work through NSS and Rotract clubs. NSS committee as well as Rotaract chapter has sizeable representation of the students.

File Description	Document
Upload any additional information	View Document

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 20.6

5.3.3.1 Number of sports and cultural events/competitions in which students of the Institution

participated year-wise during last five years

2018-19	2017-18	2016-17	2015-16	2014-15
22	21	19	21	20

File Description	Document
Upload any additional information	View Document
Report of the event	View Document
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	View Document

5.4 Alumni Engagement**5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services****Response:**

The institution was established in the year 2010 and is growing steadily since its inception. With first batch of students graduating in the year 2014, the alumnus base of institution is growing rapidly. The alumnus are spread in various fields ranging from higher education in NITs, IITs in India, as well as abroad in countries like US, UK, Australia and employed in major MNCs like SAP Labs, NTT Data, Infosys, Toyota Industries etc. Many are gainfully employed in startups as well as their own family setups.

The KSSEM alumnus meet at least yearly once and share their progress and experiences with the gathering. To enable the members to participate in such meeting without affecting their busy schedule, the annual alumni meeting was conducted on 26th January every year for first four years. Since last year it is held on the college annual day "Aarohana". This was to allow the alumnus to participate in college annual day and interact with the student community. The idea was well received and the practice will be continued in future.

Being relatively a new institution with just 6 batches having graduated, the alumnus base is not vast. The Alumni association has been formed informally in the institution and will be registered in near future. The office bearers of Alumni association are comprised of a staff coordinator and alumni members with at least two members being KSSEM faculty members who studied at KSSEM at either undergraduate or post graduate level. A dedicated email box with email id alumni@kssem.edu.in is created to manage all the correspondence with alumni members. The respective Departments have strong network of alumni and utilize this bond in maintaining institute-industry relations and utilize them in arranging industry visits. The inputs are also shared with placement cell for exploring placement and internship opportunities.

The participants in alumni meeting share their experiences in professional life and discuss about emerging opportunities. They also share their ideas about barrier that they had to overcome while transforming from college life to professional life. The inputs shared in these meetings are utilized in framing new activities. To encourage more participation in alumni meeting, occasionally members are felicitated in annual meeting for their contribution in their chosen fields.

In 2017 annual meeting conducted on 9th December 2017, 30 members were selected as Young Alumni achievers and were presented with mementoes. The selection was made based on the suggestions received from alumni members through email. The criteria for selection was notable performance in the field of research and higher education, entrepreneurship and gainful employment.

Recently a forum named “Future of mobility” is formed and interested students from all branches of third year are members of this forum. It is managed by Mr. Pavan Kumar, an alumni of Mechanical Engineering Department. The forum is formed with two main objectives:

1. To inculcate the habit of thinking out of box and stay relevant to the changes happening around them.
2. To brainstorm and generate ideas and pursue the same with mutual support.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.4.2 Alumni contribution during the last five years (INR in lakhs)

E. <1 Lakhs

D. 1 Lakhs - 3 Lakhs

C. 3 Lakhs - 4 Lakhs

B. 4 Lakhs - 5 Lakhs

Response: E. <1 Lakhs

File Description	Document
Upload any additional information	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 and in tune with the vision and mission of the institution

Response:

VISION

To impart quality education in Engineering and Management to meet the technological, business and societal needs through holistic education and research

MISSION

K.S. School of Engineering and Management shall,

- Establish state of the art infrastructure to facilitate effective dissemination of technical and managerial knowledge
- Provide comprehensive educational experience through experiential learning strengthened by institution and industry interaction
- Carry out socially relevant research activities and disseminate knowledge
- Inculcate leadership skills and foster entrepreneurial spirit among students.

The attributes of the Institute are characterized as follows:

Quality Education

- The Institute provides a friendly learning environment, with good ambiance, state-of-the-art infrastructure and extensive facilities, to facilitate knowledge dissemination through ICT (NPTEL videos, Projectors with internet facility in the classrooms, Case studies, surveys, field trips and industrial visits).
- The Institute has a pool of highly-qualified faculty and staff, who employ various teaching methodologies to effectively deliver lessons, and impart their knowledge to students effectively.
- The institute encourages the faculty and students to keep their knowledge updated, by participating in Faculty Development Programs, competitions and workshops, organized either in the institution or conducted elsewhere.
- Conferences, seminars and guest lectures from eminent personalities from both academia and industry are organized by the institution, in order to expose the students and faculty to the latest innovations and challenges faced in the real world.

Societal Needs through Holistic Education and Research

- The institution has been involved in social survey activities where in a group of students had visited Garepalya a nearby village and investigated the harmful effects of using the untreated sewage water for cultivation. Soil test was also conducted to investigate the presence of any heavy metals in it. A report of all these has been prepared by the students and the same is to be submitted to the Government of Karnataka.
- In collaboration with Traffic police Bengaluru (D.C.P. West), the institution has conducted a survey to document the road conditions as well to give short term and long term solutions to the existing traffic problems
- The institution commits to produce quality students and student leaders who are technically sound, committed and are fit to be absorbed by the industries

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

Response:

Decentralization

The Organization follows a mechanism of assigning qualified individuals and giving operational independence to all different functionaries to work towards decentralized administration framework:

Governing Council

Office bearers of Kammavari Sangham, offer valuable suggestions and directions in the formation and execution of Governing Council activities. The Governing Council meets periodically to discuss the progress made and also suggest the various activities to be taken up in the road map planned by the departments. The Governing Council is also responsible to direct management in taking decisions.

Management

After receiving approval from the Governing Council, the management plans a detailed procedure for implementing the envisaged programs and advises Principal to conduct the activities as recommended by Governing council. The President, Secretary and Treasurer form key management personnel, responsible for monitoring all institutional activities. They play a lead role in policymaking, decision taking and

approving the organisation's financial needs.

Academic Advisory Board

The Management has constituted an Academic Advisory Board(AAB). The AAB consists of reputed academicians recognised in the National and state level. AAB members extend necessary suggestions to the management in bringing out necessary changes in the system . CEO is the member secretary of Academic Advisory Board and reports to the board who plays a predominant role in implementing key decisions taken by the board members.

Principal

Principal / Director forms the functional authority who is instrumental in directing organisation's academic activities. Through meetings, he collects suggestions and information from HOD's and percolates the information from top management to the employees and vice versa. The Institutions abides by the University regulations .

Head of the Department

In line with Institution's strategic plan, HOD plans various Departmental activities. On setting activities for that academic year, HOD reaches the set targets and goals . The same is attained by framing a calendar of events, allocating suitable personnel/s to respective tasks.

Faculty

Faculty members allotted to a definite task, take exclusive considerations on the functioning of committee/s. They become active in administering different scholastic, co-curricular and extra-curricular activities by acting as a bridging element between management and the students. Students are motivated and directed towards achieving leadership qualities by giving them opportunities to act as student representatives and active coordinators of many active committees.

Participative Management

Strategic Level

KSSEM has a practice of involving the stakeholders in various academic activities such as the drafting , planning and getting budget approvalsactivities for the academic year .

Functional Level

Any event taking place in the institution is well planned and is executed only after taking into consideration the opinion/s of all the representatives and responsible personalities. Both faculty and students form a team with an outline of executable roles and responsibilities. Faculty involve themselves in delivering both academic and nonacademic responsibilities.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

The institution was set up with the keen intention of cultivating and supporting a strong research culture and motivating the younger minds towards innovation and research. As a mark of this research culture, the institution is found to be successful in getting quite many research grants from various nationalised research funding agencies to name a few we have KSCST, VGST, NRB, VTU etc.,

Creating a thirst for research and establishing a strong research culture was made successful by practicing the following benchmarks:

- 1.Starting Post-Graduation programs in all the branches that were sanctioned with Undergraduate programs
- 2.Setting up a research center and getting projects from the government and non-government bodies
- 3.Encouraging students to write KSCST proposals
- 4.Conducting national and international conferences to disseminate knowledge
- 5.Securing University ranks and awards in UG and PG programs
- 6.Getting NAAC accreditation
- 7.Getting NBA accreditation

The institution has always been in line with the milestones set, securing University ranks in UG and PG a few instances to show this is that the institution has secured a University rank in both the UG program and the PG program respectively.

KSSEM has also been successful in setting up research centres in different branches. Initially in the year 2013, 4 research centres were set up in Mechanical Engineering, Electronics and Communication Engineering, Civil Engineering and Computer Science Engineering Departments respectively. From then onwards, the institution has also progressed in setting up research centres in Basic Science and Humanities. A number of research scholars have registered under this research centre in various disciplines for their Doctoral programs. Apart from this, the institution is instrumental in obtaining research grants from various research funding agencies and has successfully completed the same. Some of the key factors that show KSSEM to be in line with the research culture strategy are its possession of a large volume of

research publications published periodically by faculty and students in some of the reputed journals. KSSEM also does consultancy work where in general public get assistance from the institution on a nominal pay basis. Stepping ahead it promotes filing patents on the intellectual property of its faculty and students.

KSSEM has also been successful in organising and conducting National and International conferences. Through these conferences an augmentation of the recent trends and technologies were made in different disciplines. The institution has always motivated its faculty members and students to always publish their research work in reputed and peer reviewed journals.

The institution also supports the research scholars by facilitating them with necessary leaves to attend and carry out the research related works

File Description	Document
Upload any additional information	View Document
strategic Plan and deployment documents on the website	View Document
Paste link for additional information	View Document

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

Response:

Administrative Setup

The administrative setup moving down in the hierarchy comprises of the Governing council at the top most position followed by the Kammavari Sangham Management, Academic Advisory Board, Chief Executive Officer, Principal/Director, Head of the different Departments and teaching staff, non teaching staff and supporting staff in the organogram. The plans envisaged by the Management are presented before the Governing Council for their approval. The Principal and the Management act in accordance with the directives set by the GC. The President, Secretary and the Treasurer monitor all the activities of the institution and make necessary decisions to be in-line with the directives of the GC. The AAB extends necessary suggestions to the Management in bringing out necessary modification in the system

The Principal/Director forms the bridging link between the Management and the staff. Through conducting meetings, he collects suggestions and information from HOD's and percolates the information from the top management to the employees and vice versa. The HOD's are accountable for framing different Departmental activities in that academic year and bringing it to the effect with the help of the faculty, non teaching staff supporting staff and students.

Stock verification procedure

KSSEM follows a set of rules in executing the activities of the organisation; An example for this is Stock

verification procedures . At the end of each semester, stock of all laboratories are checked and recorded. Stock verification is conducted by Inter-Departmental faculty members. The discrepancies if any found are entered in remarks and is brought to the consideration of HOD and in turn the HOD will report to Principal and the Principal will initiate the necessary action.

Recruitment procedures

The Management and Principal of KSSEM believes that the faculty members become the building blocks of an institution and hence selection of Quality faculty members is made through a predefined structure. The first step towards recruitment is planning the requirement. In this stage, a draft of comprehensive job specification is prepared highlighting basic requirements and responsibilities of the position that includes skill sets, qualifications and experience. With all these details an advertisement is placed in periodicals for filling the vacancies. The second step is screening. At this stage, the received resumes are screened and shortlisted on the basis of requirement and the shortlisted candidates are asked to appear before selection panel for an interview. The panel comprises of the Principal, HOD's from different Departments and a subject expert. Candidates will be evaluated based on his/her presentation before the members. The panel selects a suitable candidate on the basis of merit and will be called for a meeting with the Management. Here the final selection of the candidate is done. Based on the involvement of staff in all institutional activities and their performance, all staff members are motivated and are promoted periodically.

Any staff on the completion of his Doctoral degree will give a presentation before the AAB. The AAB will then make a decision on promoting him/her to the next level.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document
Link to Organogram of the Institution webpage	View Document

6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

Response: B. 3 of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP (Enterprise Resource Planning) Document	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document

6.3 Faculty Empowerment Strategies

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

Response:

For any Educational Institution, for achieving its mission and vision, faculty play an important role. Faculty should meet the performance criteria set by the organization to ensure the quality of work.

In order to meet the organisation's standards, the employees are facilitated with an environment that enables them to work freely without being restrained from performing to a level of their fullest potential. Thus, teaching and supportive staff form the essential dynamic forces of KSSEM. At KSSEM, the working environment is very friendly; employees work as a team and enjoy the work they do, resulting in complete job satisfaction. The Welfare facilities provided for the teaching and non-teaching faculties are:-

1. Leave facilities for visiting industrial centers or attending FDP/Workshop /Seminar
2. EPF as per PF act.
3. ESI facility to eligible employees.
4. Uniform to Drivers
5. Financial support to attend Workshops, FDPs and conferences.
6. The institute every year felicitates the staff members who have given 100% result in their subjects.
7. The institute felicitates the teaching and non-teaching staff who have served the organization for 10 years.
8. For special achievements like getting project proposals sanctioned from funding agencies, staff are being felicitated in college functions.
9. The institute encourages its staff to participate in extracurricular activities such as NSS camp, sports etc.

10. Creates a sense of belonging amongst faculty members by involving them in various committees.

11. Marriage Leave is given to faculty who are getting married

12. To bring awareness amongst the teaching fraternity and the supporting staff, frequent faculty development programs, conferences and workshops are being conducted.

File Description	Document
Upload any additional information	View Document

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: 7.31

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

2018-19	2017-18	2016-17	2015-16	2014-15
38	0	0	0	0

File Description	Document
Upload any additional information	View Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

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: 3.4

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

2018-19	2017-18	2016-17	2015-16	2014-15
5	2	1	7	2

File Description	Document
Upload any additional information	View Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 48.95

6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
83	76	44	24	34

File Description	Document
Upload any additional information	View Document
Details of teachers attending professional development programmes during the last five years	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Response:

The institution strictly follows all the basic recruitment and promotional policies. The performance appraisals are done in a transparent manner.

Teaching Staff Appraisal

Each faculty member has to submit self-appraisal in the format prescribed to the HOD every year. HOD goes through and writes the strengths and weaknesses of each faculty in their appraisal. It is then submitted to Principal. At the end of every academic year, the Principal and AAB evaluate each faculty member. The criteria for evaluation include the subject results, commitment, readiness to take responsibilities, research contribution in terms of proposal sent, research papers published etc. of each faculty and student feedback.

The outcome is then analysed by the Management based on the progress and achievements of each faculty. Management then decides the annual increments to be given to each faculty member. Personal interview and appraisal being held with the teachers to share appraisal reports and discuss about their career

advancement.

Non-Teaching Staff Appraisal

Individual Nonteaching staff will prepare their appraisal, which includes the responsibilities to be carried out, their support to faculty in smooth functioning of laboratories, FDP / workshop attended and any other special achievements which is then forwarded to the HOD. After the reviews by HOD, it is then discussed by the Principal and Management and their suggestions are taken for regular increments, promotions and regularizing the staff.

File Description	Document
Upload any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The main source of income to the institution is the fees paid by students during their admissions to respective courses. In addition, to this the members of Kammavari Sangham donate funds to the institution from their individual sources as and when the need arises. Other sources of income include revenue generated by facilitating the transport service to students and faculty, renting the institution for various competitive examinations, the hostel fees, fixed deposits paid by the students. The major expenses of the institution are towards the augmentation of infrastructure and other essentialities such as repairs and maintenance of vehicles, salaries to staff, salaries to housekeeping members, garden maintenance, EPF contribution, ESIC, Advertisements, newspapers, periodicals, professional charges, University fees, expenses incurred in conducting meetings, meeting the needs of sports and games, stationary and printing expenses, maintenance of UPS, fees paid to auditors, building and water tax are some in the list of expenses.

Internal audit

it is done periodically to provide the Management an overview of the organisation's effectiveness. At KSSEM, the internal auditing is done every month and the same is also verified. The TDS audits are done every quarter yearly and are recorded after the verification by the internal auditor. The internal audit team concentrates mainly on the profit and loss accounts of the institution, cash flow statements, balance sheets, other miscellaneous accounts, Income and Expenditures statements. Income and Expenditures statements are documented in terms of Financial Receipts and Vouchers/Bills respectively. All the documents are recorded for future reference.

External Audit

The accounts of the institution are audited annually by an experienced auditor. He is responsible for certifying all the financial transactions of the institution. The external auditor scrutinizes the organization's

financial statements and indicates the financial position of the institution and also examines institution internal system thoroughly for any changes to be brought about in case of any variations. Periodically these documents are audited by Internal Audit members and all the documents are submitted to Chartered Accountants after verification. As a final process, all the audit findings and observations are documented in the form of an audit report.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: 0

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

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	View Document

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

Response:

Strategies for mobilization of funds

The Governing Council and the Management of KSSEM has framed a set of strategies to enable the mobilization of funds to self-sustain in the long run. The strategies framed are as below.

1. Through conducting conferences/seminars by collaborating with VTU and certain other government bodies such as DST, NAL, DRDO, NRB, etc.,
2. Through sponsorships received for conducting various events of the institution

3. Through consultancy
4. Seeking funds from AICTE under MODROBS for upgrading the infrastructure and obsolete equipment
5. By facilitating the required infrastructure for conducting competitive examinations
6. Raising funds and donations from the alumni

Optimal utilization of resources

KSSEM has a well-defined policy for the mobilization of funds in the institution. The mobilization of funds is well monitored by the Management of Kammavari Sangham. All financial transactions of the institution are routed through the financial officer, recommended by the Principal and approved by the Secretary. The Treasurer of the Kammavari Sangham takes care of all the financial needs of the institution. The demands by individual Departments for release of any funds, is first placed before the HOD. The HOD in turn forwards to the Principal for recommendation and he places the same before the Secretary for approval and then the financial officer sanctions the amount after the approval.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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 ensures clarity for institutional functioning to achieve and enhance quality culture through following two best practices to enhance the quality of students:

Best Practice 1: Implementation of effective and appropriate pedagogy to improve students' participation in classrooms

- The main goal of IQAC at KSSEM has been to bring about a transition towards a learner-centered approach in teaching-learning to enhance students' participation in classrooms.
- IQAC chief coordinator conducted an orientation for all the faculty explaining and stressing the need of participatory learning.
- IQAC presented the need of strengthening the teaching-learning process by introducing selective

and appropriate pedagogy to be used by teachers such as 'Flip Class, Group Discussion, Problem Solving, Model Making, Survey based, Case-study, Hands-on, Project development' etc.

- IQAC provided the guidelines to include proposed pedagogy as part of lesson plan. IQAC will maintain the reports and analyse the impact on learning to improve further.
- Faculty have chosen the appropriate pedagogy for their subjects and are practicing in a few classes to provide students with a good experience in the classroom. However, blackboard being the most important method of subject delivery is majorly used by every faculty.
- This innovation is helping in experiential learning and increasing interest in students towards the subjects and learning.

Best Practice 2: Measures to enhance students' employability

Academic flexibility and bridging the gap between curriculum and industry can be achieved by conducting workshops, seminars and tie-ups through MoUs with industries.

- IQAC ensures that the students are encouraged to participate in different events in the institution and outside the institution such as conferences, workshops, seminars, technical fest, hackathon, technical competitions.
- IQAC has strongly recommended the need for the conduct of training programmes. A week long soft skill training was arranged for students in the 1st year of their degree programmes. Technical training for pre-final year students was arranged helping students to prepare for placement activities. At the end of the technical training, each student was evaluated by working on a project in a team of 2-4 students. A five-day training is conducted for all other students helping them to strengthen their technical concepts.
- IQAC has extended the support in organizing the project exhibition. Participation in project development is encouraged as teams are exhibiting their projects that are evaluated by judges from industry. Two teams from each Department are awarded for their work.
- Prior to IQAC, very few students submitted the project proposal for funding. IQAC encouraged final year students to submit project proposals for competitions conducted by different organizations such as KSCST, BITES, inter college project exhibitions. 59 teams submitted project proposal in 2019-20 academic year from various disciplines to KSCST.

File Description	Document
Upload any additional information	View Document

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 and recorded the

incremental improvement in various activities (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

1. IQAC Contribute, Monitor and Evaluate the Teaching-Learning process

- The IQAC plays a vital role in maintaining and ensuring timely, efficient and progressive performance of academic tasks. IQAC ensures to define the importance of course file and its components such as Academic Calendar, Lesson Plan, CO-PO mapping etc. IQAC has provided the formats of various academic tasks such as time-table, internal test documents, lesson plan, CCM and many more.
- IQAC committee prepares the Institute Academic Calendar by considering affiliating University Academic Calendar at the beginning of every semester including schedule for internal tests and other events. Department heads prepare Department Academic Calendar by including schedule for PTM/CCM/workshops/seminars/FDPs as per Departmental requirements.
- Department prepares various time-tables such as class time-table, faculty individual time-table, lab time-table, instructor time-table as per the format given by IQAC.
- IQAC assists the teaching community to prepare lesson plans and CO-PO mapping documents including the course objectives and course outcomes for each course of the syllabus defined by the affiliating University. IQAC reviews the documents and provides feedback to make corrections by course owners if required.
- Attendance of students is monitored periodically by class teachers and attendance registers and teacher's diary are verified by Heads weekly as per IQAC's suggestion. The institute and IQAC regularly conducts the feedback on teaching learning processes, the outcome of which is taken for corrective measures.

2. IQAC Contribute, Monitor and Evaluate the Assessment process

- IQAC has introduced a new system of setting two sets of question papers for every Internal Assessment (IA) in each course, out of which one paper is selected by the Principal. IQAC is making sure that Bloom's Taxonomy is applied while framing the questions to address the OBE system. Course outcomes and Bloom's levels are indicated for each question as per IQAC formats.
- IQAC has provided test related formats to maintain the standards across the Departments. IQAC insisted each Department to prepare a test time-table and invigilation duties as per the given formats and guidelines.
- Before the existence of IQAC, six COs were identified for each course due to which marks distribution for each module and CO was not uniform since syllabus contains 5 modules. As per IQAC's guidelines, questions are included from each module covering the entire syllabus and each

module uniformly. Each module is given equal weightage and internal tests are structured in line with semester end examinations conducted by University.

- IQAC suggested a formal feedback about teaching-learning, question paper, lab conduction and evaluation from the students after each IA test during Class Committee Meeting (CCM).
- The student verifies his/her blue book with the answer key to avoid the discrepancy in valuation. IQAC monitors timely blue book verification in each Department. Blue books are also cross verified by other faculty at the end of the semester to avoid the discrepancy in internal marks.
- IQAC has set the benchmark to identify the slow learners after each internal assessment and special remedial classes are arranged for such students to improve their performance.

File Description	Document
Upload any additional information	View Document

6.5.3 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)
3. Participation in NIRF
4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

Response: C. 2 of the above

File Description	Document
Upload details of Quality assurance initiatives of the institution	View Document
Upload any additional information	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity during the last five years.

Response:

Kammavari Sangham group of Institutions is always committed in the direction of practice of ideals and promotion of social and natural justice, human dignity and rights of all employees, students, co-staff etc. Hence in the true sense, it realizes the significance and also the need for having a policy in terms of Gender amity, safety and social security, counselling, sexual harassment of each individual whether he/she is a staff, faculty, student or support staff.

1. Safety & Security

In order to support Women's Right to protection against Sexual Harassment, ragging and the Right to Livelihood and also to create healthy and secure environment, the respective committees meet on a regular basis and discuss some of the major issues along with warden to look out for the concerns of the girls in the hostel. Also, the security forces are appointed who in turn are present in the campus 24 hours. Closed circuit cameras are fixed inside the classrooms and corridors for security reasons. The girl's hostel is also equipped with CC cameras. The institution is provided with an ambulance service which shuttles in the campus in case of emergency. If any girl student wants to go home, vehicle is arranged to drop her to a nearby point. Awareness programs on safety and security is conducted as a part of NSS activity separately for girls and boys.

2. Counselling

Mentors give an opportunity to students for expressing their difficulties and the reasons for their underperforming. The Mentors after exploring the root cause help the students to see things more clearly and possibly from a totally different view-point. Thus the solution for the problem is analyzed by respective students themselves. A separate counselling room is identified and allocated for this purpose where in the corresponding staff meets his/her proctor and advises about strengths and weaknesses.

Statutory committees like anti sexual and harassment committee, anti-ragging committee, grievance redressal committee have been functional since the inception of the institution to address the issues related to the girl students. The students are free to approach the members of these committees and share their grievances.

KATALYST is a program conducted for the girls of economically weaker background through HCTS (Human Capital for Third Sector).

KSSEM and HCTS have signed for an MOU wherein students are recognized, counselled and training classes are conducted to help them get placed in good companies. Some students have improved and have also been provided with laptops and study material through this program.

3. Common Room

To ensure good health, safety, security and wellness of its staff and students, separate common rooms for both girls as well as boys are provided in each block of the campus. All the necessary facilities like drinking water, first aid kits and beds are provided in the common room and 'Anti sexual harassment committee along with grievance committee' monitors the room. A separate female attender takes care of the maintenance and hygiene of the room.

File Description	Document
Link for annual gender sensitization action plan	View Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

Response: C. 2 of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management

- **E-waste management**
- **Waste recycling system**
- **Hazardous chemicals and radioactive waste management**

Response:

An eco-friendly campus is been committed as well as maintained inside the institution. The campus is full of greenery with utmost priority given to cleanliness. A dedicated team of gardeners and sweepers strive day and night to take care of the lawns, gardens and canopy areas.

Solid waste management: An initiative is taken up to instill the practice of waste segregation, at all major places in the campus. The three trash bins colored red, green and yellow are installed in all the floors. At present, housekeeping staffs dispose the same to the BBMP. In addition to the above, the Management has plans of Installing waste incineration machine to bring down the percentage of volume of solid waste.

Liquid waste management: Proper reuse of water is the only possible solution for meeting the increasing water demands. Thus an eco-friendly, viable and integrated system of liquid waste management system is required. A leading step has been taken by the Management of KSSEM towards environmental consciousness in the construction of liquid waste management system, called as Sewage Treatment Plant (STP) in the campus.

The close loop system of water comprises of water supply, sewage collection and treatment of sewage up to tertiary level and ultimately ends by reusing waste water. Such systems of close loop of water and its cyclical treatment is to promote the conservation of water. The Recycled water can be used for

- Gardening
- Toilet and urinal flushing

E-waste management: The generation of e-waste is not significant in the campus as the used e-components are repaired and maintained in the laboratories itself. Other small e-waste generated in the campus is given to e-waste collectors.

The institution also consists of a NSS wing under which the “swachh campus” programs are conducted and all types of wastes are collected and disposed to the proper channel making waste free environment.

File Description	Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document
Link for Geotagged photographs of the facilities	View Document

7.1.4 Water conservation facilities available in the Institution:**1. Rain water harvesting**

2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

E. None of the above

D.1 of the above

C. 2 of the above

B. 3 of the above

Response: B. 3 of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

Response: Any 4 or All of the above

File Description	Document
Geotagged photos / videos of the facilities	View Document
Any other relevant documents	View Document

7.1.6 Quality audits on environment and energy regularly undertaken by the Institution

- 1.Green audit
- 2.Energy audit
- 3.Environment audit
- 4.Clean and green campus recognitions / awards
- 5.Beyond the campus environmental promotion activities

E. None of the above

D.1 of the above

C. 2 of the above

B. 3 of the above

Response: C. 2 of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

- 1.Built environment with ramps/lifts for easy access to classrooms.
- 2.Disabled-friendly washrooms
- 3.Signage including tactile path, lights, display boards and signposts
- 4.Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment
- 5.Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

E. None of the above

D.1 of the above

C. 2 of the above

B. 3 of the above

Response: C. 2 of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Response:

The organization of Kammavari Sangham was established with the objective of providing charitable service to the community and society. The Sangham has diversified its activities since its establishment over five decades ago. Now it has expanded its horizons to include community-strengthening ventures, providing education, mechanical and financial support to the society. Institution believes in merit based selection of its technical faculties/ non-teaching staff and also the administrative staff.

To promote cultural and regional harmony in the institution, KSSEM has been observing festivals such as Onam, Ganesh Chaturthi, Ayudha Pooja and Kannada Rajyothsava. To promote communal harmony, KSSEM supports Muslim students offering namaz on Fridays by facilitating them with a room for the same.

KSSEM has believed in the fact that Unity lies in Diversity and thus has constantly promoted for this cause. As an evidence of this at KSSEM, we find fraternity from different parts of India and students from different parts of the world too. This also is an indication of cultural harmony wherein people of different cultural background work together for a common cause.

The Management has taken several initiatives to organize programs such as, general health checkup, blood donation camps and diabetes awareness programs to the residents of Mallasandra. In addition to this the management has involved in distributing books to the poor Government school students on the occasion of Sadbhavna Divas.

To bring the effective teaching methods, one-day workshop was conducted in the campus for the School and PU teachers on the occasion of Teacher's day. One day trip had been organized for government school students to Visweswaraya Museum on the occasion of Children's day to develop interest in Science and Technology. Polio Awareness programmes and blood donation camps are usually organized to create awareness in the general public.

As an appeal from the AICTE, tree plantation programme was organized on 14th August 2019.

Management, Principal, staff and students participated in the live telecast of constitution Day which was celebrated on 26th Nov 2019 in the Aryabhata Seminar Hall with more than 100 participants.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

The institution has organized many activities to increase the consciousness about national identities and symbols. Few activities such as celebration of birth anniversaries of personalities like Swamy Vivekananda, Sarvepalli Radhakrishna, Mahatma Gandhi, and National festivals like Independence Day and Republic Day are celebrated.

As part of the curriculum, the students of KSSEM are taught with a subject to create an awareness of the rights, duties and responsibilities of citizens. Certain case studies are taught such as the National emergency Under the article 352, article 356, which emphasizes the enforcement of president rule in a state. The evidence of removing the article 372 are take as case studies to show that the parliament has the supreme power in amending the Constitution without disturbing the basic structure that is Sovereign Socaillist Secular Democracy and Republic nature of the system.

Apart from this, the curriculum is also set so that it offers a course on Human values, professional ethics and cyber law as given below.

1. Introduction to Indian Constitution
2. Union Executive and State Executive
3. Elections, Amendments and Emergency Provisions
4. Internet Laws, Cyber Crimes and Cyber Laws
5. Professional / Engineering Ethics
6. Constitutional special provisions

The institution also has conducted awareness programs on Fundamental Duties and Rights of Indian citizens and other constitutional obligations by organizing talks of eminent personalities like Mr. Uday Holla, the Advocate General of Karnataka.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	View Document

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

1. The Code of Conduct is displayed on the website
2. There is a committee to monitor adherence to the Code of Conduct
3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

E. None of the above

D. 1 of the above

C. 2 of the above

B. 3 of the above

Response: A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	View Document
Code of ethics policy document	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

KSSEM has a great concern towards human values and treats every employee equally by facilitating what he deserves. Every individual respects each other and follows a higher degree of professional ethics. The institution celebrate the birth anniversaries of our great leaders as a mark of respect to their contribution towards the nation. To name a few celebrations observed in KSSEM we have, birthday celebration of Mahatma Gandhi, Jawaharlal Nehru, Subhash Chandra Bose, S. Radha Krishna, Swamy Vivekananda, and Sir Visveswaraya respectively.

Republic Day is celebrated every year on January 26 to commemorate the adoption of Indian constitution.

On this day, various formal events including flag-hoisting by the President and march-past by NCC cadets. President will address on the spirit of nationalism and relevance of Republic during current times. It is followed by cultural programs organized by the students including Patriotic Songs, Dance, Skit etc. focusing on national integration and constitutional values that inculcate patriotism and awareness.

Independence day is celebrated every year on 15th August with the flag hoisting by the Secretary, President and Principal and well-practiced march-past by NCC cadets. Cultural activities related to independence movement are exhibited by the students.

Dr.Sarvpalli Radhakrishnan Birth Anniversary is celebrated every year on 5th September, as Teacher's Day with great fervour. The students organize programmes at Department level and wish their teachers. Best performing teachers are honoured during the function

Birth Anniversary of **Sir Visvesvaraya** is celebrated on 15th September as Engineers day as an exceptional tribute to the best Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya.

Birth anniversary of **Mahatma Gandhi** is celebrated on 02 October by the NSS volunteers by organising cleanliness drive in the vicinity.

Other days of importance celebrated include National Youth Day on the occasion of Birth Anniversary of **Swami Vivekananda** are celebrated as part of student society activities.

The institution also has conducted awareness programs on Fundamental Duties and Rights of Indian citizens and other constitutional obligations by organizing talks of eminent personalities like **Mr. Uday Holla**, the Advocate General of Karnataka.

On these days the faculty, staff and the students involve themselves in decorating the college. On all such occasion there will be a gathering where the Management of KSSEM will be addressing the gathering, followed by cultural programs by students and distribution of sweets.

File Description	Document
Link for Annual report of the celebrations and commemorative events for the last five years	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Response:

BEST PRACTISE 1

Title of the Practice : Formulation of AAB

The Kammavari Sangham Group of Institutions has introduced a concept of using **ACADEMIC ADVISORY BOARD (AAB)** that guides Management of the group of Institutions in all their Academic affairs and monitors the system. It is Chaired by a Former Vice Chancellor of VTU **Prof.H.P.KHINCHA** and has four other Members who have a sound academic track record. The AAB has the following roles:

Objectives of the Practice

1. The objective of introducing AAB was to bring about enhancement in the academic quality thereby taking the institution to the next higher level
2. To get the institution accredited from both NAAC and NBA
3. To set up systems in place and create a brand image to make its presence felt.

The Context

Kammavari Sangham comprises of a group of very successful business men who are also philanthropists with a passion to offer technical education and serve the society. After successfully running the group of institutions for a couple of decades, a strong need for quality improvement and consolidation was felt and thus an AAB was introduced.

The Practice

- The Academic Advisory Board (AAB) monitors the functioning of all the institutions of Kammavari Sangham and direct them in all their academic activities and help them to enrich and enhance their quality and standing as individual institutions imparting good technical education.
- The Board has advises these institutions in obtaining Accreditation and other certifications required by the institutions to make a mark in the society as well as the user systems including the regulatory bodies.
- The Board will conduct audits from time to time using third party evaluators and advice on the development of various components and systems in each of the institutions with a view to enhance their performance and branding.
- The Board advises the Management on issues like technical inputs and decision making, educational requirements, human resource development and management, infrastructure development, systems and their formation and all others as directed by the Management from time to time.
- The Board will evaluate and recommend the Annual Budget of individual institutions and present a consolidated budget for approval by the Management.
- The Board will develop guidelines for various activities like Consultancy, Sponsored Research, Infrastructure Development, Human Resource Development and any other issues as directed by the Management.
- The Board will advice on the documentation of various policy manuals governing different activities needed to be carried out and other administrative manuals for smooth running of the institutions.
- The Board shall induct other expert members as and when required and also invite and seek the expertise of other experts from time to time to take decisions and advice the Management.
- The Board will monitor, advice and recommend to the Management on any other issue from time to time as and when the latter would direct the Board seeking its advice.

Evidence of Success

The AAB in its advisory role has brought about a series of streamlining of the various academic systems and slowly infusing professionalism. The system has witnessed a lot of changes and the real fruits of all the efforts of AAB is expected to be seen once the accreditation is completed.

Problems Encountered and Resources Required

Whenever a new system is introduced into an existing organization that is two decades old the first problem will be human reluctance. The administrators / change agents will have to be patient and constantly pursue and convince people about the value addition and win over the people.

BEST PRACTISE 2

Title of the Practice

Sowing Leadership Traits In Students Through Socio-Cultural Involvement

Objectives of the Practice

The main intentions or objectives of this practice are to;

- Create a brotherly hood feeling amongst the students
- Prepare the students to respond to the call of the needy
- Build leaders for the tomorrow's world though cultivating the habit of service
- Contribute to the society through the professional and technical skills developed
- Develop communication skills

The Context

Inculcate the feeling of belongingness and togetherness:

Belongingness is often referred to as the acceptance as a member or being a part of something. Belongingness to the society is one of the basic needs of human kind that comes next to the basic needs such as food and shelter. By involving the students in various social and cultural activities apart from their curricula, the Rotaract club of KSSEM has played a proactive role in building the feeling of belongingness to the society. This active participation has also helped them, in developing essential leadership traits and take lead roles in all the socio-cultural activities. They also develop communication skills by involving themselves in interactions with the general public and various leaders. These interactions also have significantly helped them to transfer the technical skill set to the betterment of their neighborhood based on the needs and essentialities.

The Practice

KSSEM comprises of student clubs and associations that contribute regularly and effectively to the betterment of the society. Rotaract club is one such student club of KSSEM that nurtures and molds the leadership qualities in the students, help them in exchanging their ideas with the community leaders, develop technical skills and professional skills useful to the society.

The Rotaract club has involved itself in organizing, planning the activities for that respective year, and bringing them effectively into action. Most of the club activities are either funded by the organizers or at times the activities are self-funded. The students elect a student President for the Rotaract club. He holds the office for one year and is instrumental in bringing out all the activities of the club into effect. The planning of activities and the fund generation is normally done in consultation with the institutional higher-ups and under the guidelines of the Rotary club Vidhyapeeta.

This practice is considered to be a unique practice in line with the norms of *higher education of India*, as it emphasizes more on making today's students responsible citizens of tomorrow's world. This cultivates in them a sense of brotherly hood and belongingness to the society. The members of this club develop a sense or readiness to the call as part of their being.

Evidence of Success

Some of the distinguished activities carried out by the Rotaract club of KSSEM are achieving the Guinness World Record in blood donation, active participation in the remedial actions towards the flood relief fund, active participation towards relief actions volunteering pulse polio activities, are few activities worth mentioning.

The blood donation camp, volunteering the pulse polio activities are conducted every year by the volunteers of rotaract club. Apart from these, the members effectively respond to all the calls for service then and when required.

Problems Encountered and Resources Required

The resources required for the activities are generally funded by the organisers. Certain activities are carried out by conducting a fund raising event. The Management, Principal and staff of KSSEM, have also joined hands in contributing funds liberally for some of the natural disasters and calamities.

File Description	Document
Link for any other relevant information	View Document
Link for Best practices in the Institutional web site	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

KSSEM with its vision “to impart quality education in engineering and management to meet technological, business and societal needs through holistic education and research” is firmly committed to impart education that encompasses its vision.

The institution imparts holistic education by providing exposure to the community around through interaction, sensitization to the nature around and appreciation of human values and the value of peace.

The institution has a very effective mentoring system that identifies and classifies capabilities and talents of students and encourages them to develop their passion(s). Every student is attached to a mentor who will be with him till he leaves the portals of the institution after completing his/her course. The mentors and class teachers are in touch with the parents informing about the performance of their wards.

The institution that has just turned ten years has full-fledged facilities that provide for all round development of all the students.

Good education with sound fundamentals and all round exposure

In addition to the systematic delivery of the University syllabus with due emphasis on fundamentals, many enrichment courses are given to students in the form of Bridge Courses (for Lateral Entry students), branch specific Add-on courses, field and industrial trips etc. The institution has, to its merits, obtained four University ranks.

Each Department has a student chapter of a professional body that takes active interest in organizing guest lectures, workshops, site and factory visits and so on.

Students who are good at studies but economically weak students are supported with scholarships and other benefits. Slow learners are encouraged and mentored to perform better through an efficient mentoring system.

Holistic exposure to interested students through National Services Scheme (NSS)

A sense of Patriotism and self-worth are inculcated through regular extension activities and value based courses to all students. Holistic education leading to self discipline, self control, self confidence etc. are imparted to interested students through the National Services Scheme (NSS) Unit that also conducts Village Camps. NSS Sub-unit exposes students to a regimental way of life that is essential to inculcate values of discipline, dutifulness, punctuality, respect for rightful authority and self-confidence.

The market feedback on skill sets being sought by the user systems is analyzed and special add-on courses are provided to help placements. The Placement & Training department is vested with the responsibility of identifying of vendors or training partners. Students of the institute are given extensive training in Soft Skills and interpersonal skill in order to make them better citizens but at the same time perform better in the recruitment drives. The students are being placed in organizations of repute and some have become second and third generation entrepreneurs

Holistic Development through Cultural Activities

The institution encourages students to take part in cultural activities and competitions by providing training, paying registration fees and granting attendance for intercollegiate fests. Many rolling shields have also been bagged by the students. Such activities teach and inculcate team spirit, leadership qualities and imbibe the quality of taking responsibility. The institution allows students to organize a cultural event named “Aarohana”, College Day and Kalasanthe. These students, with their passion for culture, have also excelled in academics.

Holistic Education through Sports and Athletics

The institution firmly believes in the doctrine “A sound mind in a healthy body” and encourages a lot of sports activity. The students take part in a host of tournaments and have brought in laurels to the institution in University and national level events.

Holistic Education through extension activities and environment awareness:

The institution has a very active Rotaract club that actively involves our students in extra-curricular activities like Green India, Swatch Bharath, Road Safety, First Aid Course, Blood Donation Camp, pulse polio awareness, drug addiction awareness etc. Some Civil Engineering students visited Garepalya Village along with the NSS coordinator and spoke to the villagers about their needs - as a part of Jal Shakti Abhyan.

The Institution has been a part of the Rotary Club that has been awarded with a Guinness Book of world Records for highest programs carried out for Diabetes awareness camps and Blood donation camps in 2017.

Thus, KSSEM moulds the character and career of each of the students by making them holistic individuals and this is the most distinctive feature of the institution.

The institute has the distinction of filing a patent application in the field of Civil Engineering. The details are mentioned below:

CBR No: 35781

Reference Number /Application Type: E-2/3422/2019-CHE /ORDINARY APPLICATION

Application Number: 201941044331

Title : MANUFACTURING PROCESS OF GGBS AND SILICA FUME BASED COARSE AND FINE AGGREGATE

File Description	Document
Link for appropriate web in the Institutional website	View Document

5. CONCLUSION

Additional Information :

KSSEM was established in the year 2010 and has made satisfactory progress since inception. Over a decade of time, four Departments could start Post Graduate programs though three of them had to be discontinued due to lack of demand. However only one program in Civil Engineering (M.Tech. in Structural Engineering) is continuing at present. Six research centres with adequate research infrastructure were started and they are doing well. Sixty research scholars have registered in these research centres and active research is being carried out. The Institute is working to improve quality in teaching, research and consultancy.

The institution is now concentrating on the consolidation of the existing programs. It has decided to get accredited in order get a better status and standing in the demand for seats, enhancement in research capabilities through sponsored research projects, promotion of research culture and enhancement of publications, organizing many academic events like seminars, workshops, FDPs and so on, which will boost the overall confidence among the academic community.

Concluding Remarks :

KSSEM, as an institution is intended to become highly professional in achieving its Vision of imparting quality education in Engineering and Management to meet societal needs through holistic education and research.

This vision is being realized through its mission on facilitating effective dissemination of technical and managerial knowledge by the establishment of adequate and modern infrastructure; providing comprehensive educational experience through a combination of curricular and experiential learning, strengthened by industry-institute interaction; pursuing socially relevant research that can be meaningful to the society at large; and inculcating leadership skills and foster entrepreneurial spirit among students.

The institution would like to grow in all the possible directions and create a niche for itself in the field of technical education and support the vision of this country in becoming a strong technological leader. Further, the institution wants every one of its students to become a socially relevant technologist catering to the real time problems in the society.