



# **SELF STUDY REPORT**

**FOR**

**1<sup>st</sup> CYCLE OF ACCREDITATION**

**SHREE L.R. TIWARI COLLEGE OF ENGINEERING**

KANAKIA PARK, MIRA ROAD (EAST)

401107

[www.slrtce.in](http://www.slrtce.in)

Submitted To

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**BANGALORE**

**October 2018**

# 1. EXECUTIVE SUMMARY

---

## 1.1 INTRODUCTION

Rahul Education Society, an umbrella organization covering five registered educational societies, is a reputed quality education provider managing 45 institutions from K.G. to P.G., spread across Thane and Palghar districts in Maharashtra and Chandauli district in Uttar Pradesh. Shree L. R. Tiwari College of Engineering (ISO certified) is a prime Institute of Rahul Education Society, established in the year 2010. It was the first engineering college in Mira-Bhayander, and has since then provided a sound platform, equipping students to build a bright future in the ever growing industry.

The college offers 6 full time UG courses leading to the degree of Bachelor of Engineering (**B.E.**) at **University of Mumbai** and also offers Master of Engineering (**M.E.**) in *Computer Engineering, Electronics & Telecommunication*. All courses are approved by **AICTE**, New Delhi & Directorate of Technical Education (**DTE**), Maharashtra .

A team of qualified, experienced and committed teachers appointed through a rigorous selection process establish an enviable academic ambience with whole-hearted support from the Management. The Institute has state-of-the-art infrastructure – well ventilated classrooms with LCD Projectors, well-equipped laboratories, seminar hall, workshop, spacious cafeteria and a huge library.

The Institute has been established as a Remote Center for IIT Bombay, an initiative of National Mission on Education through ICT NMEICT by MHRD, Govt. of India and participates in many FDPs and Workshops. The Institute has worked towards the formation of a fully-fledged Placement Cell with 100% Placement Assistance. The Annual Job Fair witnesses more than 40 companies and around 3000 applicants from all over the country. The Institute has an Incubation Centre as well as an E-Cell to promote Entrepreneurship. Value added sessions, Conferences and Seminars ensure development in latest trends in technology. Students are given industry exposure through local and out-station Industrial Visits and internships.

Right from the Orientation Programme in the First Year, to Mentoring and Counseling throughout, and the Placement Training in Final Year, every teacher builds a strong rapport with each student, thus creating a strong support system for them and ensuring they step out of college as confident and capable individuals.

<http://slrtce.in/>

### **Vision**

To be a world class institute and a front runner in educational and socioeconomic development of the nation by providing high quality technical education to students from all sections of society.

### **Mission**

To provide superior learning experiences in a caring and conducive environment so as to empower students to be successful in life and contribute positively to society.

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

### Institutional Strength

1. Dedicated faculty and good working environment.
2. Regular lectures are conducted.
3. No. of papers published by faculties in various national and international journals.
4. Well equipped laboratories with latest instruments and software.
5. Full time faculty and strong bond with high level of interaction between faculty and students.
6. Interdisciplinary and experimental education at both under-graduate and graduate level.
7. Personal guidance to each and every student under mentor system.
8. Every year industrial visits are arranged for students.
9. Loyalty, teamwork, fairness, equity and leadership.
10. NSS activities help students grow their moral and ethical senses.
11. Use of ICT in teaching-learning through Course Networking, NPTEL Courses, and blogs.

### Institutional Weakness

1. Weak communication skills of students.
2. Inadequate resources for recruitment.
3. Financial support for very few faculty and students.
4. Non availability of well qualified non-teaching staff.
5. Less industry interaction.

### Institutional Opportunity

1. Placement opportunities for students.
2. Encouraging staff members for higher education.
3. Practical exposure to the students by organizing Industrial Visits and Workshops.

### Institutional Challenge

1. Industrial interaction with various telecommunication industries.
2. Admission of students with high merit.
3. Effective teaching for slow learners.
4. Increased competition from well known institutions under Mumbai University.

## 1.3 CRITERIA WISE SUMMARY

### Curricular Aspects

The Institute stays attuned to its Vision, Mission and Objectives in all curricular aspects throughout the Academic Year. The Quality Policy is implemented by every Department to ensure streamlined work processes and quality in teaching-learning. The curriculum, syllabus and Academic Calendar are designed by the University of Mumbai. Each Department begins planning and preparation for the Semester in accordance to the Academic Calendar. The faculty members are allotted subjects for which they prepare a Course File and a Teaching Plan. Each lecture, tutorial/practical is planned in detail, with specific learning objectives. Weaker students are provided remedial teaching. Mentoring of students is done regularly to motivate them to attend college and solve any problem they face. Focus is laid on important aspects like Value Education, environment sustainability and human ethics through the curriculum and special courses. Thus, the curriculum is enriched with integrated techniques that strengthen core concepts, and flexibility that adds value to the Course. Seminars, workshops, guest lectures, industrial visits, short term courses, field projects and internship periods enhance not only the academic growth of a student but also prepares the student for a suitable career. In the Final year, certain important aspects are looked into apart from preparation for the Final Examination - flexibility in timetable, students' choice of electives to match their field of interest, internships, campus interviews, advanced training in aptitude, soft skills and core subjects, projects, publishing of Technical Papers etc. A regular feedback of teachers is taken from students for further improvement and reform.

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

The Institute is a Hindi Linguistic Minority Institute and admissions to First Year, Direct Second Year and M.E. are done as per guidelines of Directorate of Technical Education (DTE), Govt. of Maharashtra. The students, who come from various backgrounds, are required to attend a formal Orientation Programme along with their parents. They are made familiar with the procedure of instruction, rule of attendance, training and placement policy and various roles they will play at the College. The parents are also introduced to the respective Class Incharge and are made aware of the learning environment to be created at home. Both students and parents are given the academic calendar and timetable for the Semester.

The Class Incharge along with subject teachers identify the weak learners and quick learners in order to set a balance in the classroom activity and help each student develop according to his own capabilities. Remedial teaching is conducted for weak learners to cope up with the syllabus and strengthen core concepts. The students' academic progress is constantly reported to the parents. Quality in teaching is monitored through a thoroughly prepared teaching plan and through feedback from students. To ensure good academic performance, the institute has well established systems for direct and indirect assessment according to University guidelines. The results of Weekly Tests, Internal Tests and Semester exams are analyzed to study students' learning graph and map the learning outcomes.

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

The institution has a robust tradition of research. Students are developed to become research scholars. They are encouraged to publish their work in national and international journals and present at international conferences. Specific assistance is provided through grant applications and publications including organization of workshops to develop their skills. Team research projects (interdisciplinary) are encouraged in the institute. Effective use of resources such as library, equipment and grants is ensured. The College Incubation Centre 'Vyavasay Abhyas Niketan' aims at to create an environment to practice knowledge and innovation into creation of successful entrepreneurs. Entrepreneurship Cell (E-Cell) conducts several activities which develop the student's skills in Group Discussion, Project making and more. It helps to create awareness among students

about new ideas and trends in the field of business and other occupation. It provides an effective networking with professional experts, consultants and advisors. A few faculty from almost every Department is pursuing PhD from reputed universities. The institute has collaborations with research institutes in multidisciplinary domains. The extension programs are carried out through the NSS chapter. Currently more than 120 members are enrolled for NSS. Faculty members along with volunteers organize medical, cultural, social and training camps in nearby adopted villages. From Blood Donation Camps to Street Plays that build Awareness, our NSS student's team is on the move.

### **Infrastructure and Learning Resources**

The institution has satisfactory infrastructure to support and accelerate the teaching and learning processes. There are adequate and well-equipped laboratories, equipment, tools, computers and software. The institute provides a highly conducive environment for development of technical skills and to help students attain practical knowledge of the subject while keeping in mind their needs. There is a seminar hall equipped with high tech facilities and is used for conducting seminars, conferences and other important technical Events. The Institute has a well maintained Library with a capacity of 200 seats in the reading room section. It has reference books, text books, periodicals, newspapers, magazines and other relevant resources. To foster interest in research and higher studies among students, subject wise national and international journals and publications are regularly subscribed to. The computer labs are furnished with the latest computer configurations linked through LAN. To enhance physical fitness and create interest for games and sports, numerous sports and fitness facilities are available in the college campus. College has its gymnasium for developing physical strength among students. Facilities for indoor games like chess, carom, table tennis and badminton are also made available. The institute has central managerial office with separate accounts section to provide well-organized services to students.

### **Student Support and Progression**

Shree. L. R. Tiwari College of Engineering believes in applying smooth processes and measures with regard to the admission procedure which are published in the college brochure. Needy and backward students are well informed about scholarship and other financial aids beforehand so that they can participate well in national, international curricular, extracurricular activities and sports activities conducted by Institute. The institute takes sincere and diligent efforts to facilitate entrepreneurial and employment skills among the students by supporting various activities conducted by student chapters such as IETE, CESA, CSI. It also provides full guidance to students preparing for competitive exams. Career Counselling committee and Training and placement Cell in the college aim at to provide counseling services to the students regarding vocation, scholastic, individual, professional and psychological, social features & uncertainty. Being an engineering institute, to educate and prepare students for better communication skills, building confidence among them, activities like, Group discussions, personal interviews mock meetings, mock interviews are conducted. The institute provides healthy and encouraging environment free from nuisance, maltreatment and illegitimate inequity. Apart from this, Grievance cell is there to look into the matter and complaints raised by the students and the staff. The Institute shows its serious concern to recognize their complaints and feedback. This helps institute to make a system for better reform and improvement. The Alumni Association aims at conducting several programs which involve alumni to guide and inspire the Final Year students.

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

Governance, leadership and management includes the efforts and involvement of the management of the institute. The Institute has its distinctive Vision, mission And Quality policies structured to achieve the ultimate goal of the education. Principal and Faculty are also the integral parts in design and implementation of quality policy and plans of the Institute. It also includes the actions and the measures taken up by the institution to examine and estimate the plans and strategies of the institution for effectual accomplishment and enhancement from time to time. It includes the practices of the institute to prepare students and staff for headship at various levels, and devolution of efforts at various levels. Governing body's resolution and supports for remarkable academic development in the institute are included. The Internal Quality Assurance Committee (IQAC) formed in 2016 regularly assesses the strengths and weaknesses of the Institute and provides guidance and suggestions regarding quality strategies and programs. Participative management is ensured through transparency and active involvement of the Principal, HODs and staff members in all aspects of academics, evaluation, examination and admissions. The institute has put best of its efforts to implement policies for operation of duties and grievances.

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

The institute has developed practices to address pressing issues such as gender equality, environmental consciousness and professional ethics. These practices (academic, administrative and organizational) have evolved over the period of time which has led to unique functioning of the institute and are recognized as "best practices". Alternative energy initiatives such as power consumption, Waste Management, E-Waste disposal are taken. Students and staff are encouraged to use the best transport that is environment friendly and avoid excess use of paper and plastic on the campus. Tree plantation, Blood Donation Camps, Medical Awareness Camps, Street plays and more are conducted by the Institute's National Service Scheme (NSS). Training Cell Programs, to enhance employability skills, helps the students to build a personality equipped with exquisite technical and soft skills. Unify Learning Process, to know the diversity in the talents of students and encourage them to share it with others and to encourage the student chapters and mobilize the teams with competitive spirit. Entrepreneurship programs, faculty development programs, performance monitoring, mentorship, remedial classes for weak students are some of the practices being followed. The innovative practices introduced in the last five years are entrepreneurship cell, internships, exhibitions, use of ICT tools such as course networking, blogs, online tests, NPTEL and Flip Classroom.

## 2. PROFILE

### 2.1 BASIC INFORMATION

Name and Address of the College	
Name	SHREE L.R. TIWARI COLLEGE OF ENGINEERING
Address	Kanakia Park, Mira road (east)
City	Thane
State	Maharashtra
Pin	401107
Website	<a href="http://www.slrtce.in">www.slrtce.in</a>

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	S.Ram Reddy	022-28120144	9820897360	-	principal.naac@slrtce.in
Associate Professor	Anju Arya	022-28120145	9833802437	-	anju.arya@slrtce.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

<b>Recognized Minority institution</b>	
If it is a recognized minority institution	Yes <a href="#">Minority status certificate.pdf</a>
If Yes, Specify minority status	
Religious	
Linguistic	Hindi Linguistic Minority
Any Other	

<b>Establishment Details</b>				
Date of establishment of the college	16-07-2010			
<b>University to which the college is affiliated/ or which governs the college (if it is a constituent college)</b>				
<b>State</b>	<b>University name</b>	<b>Document</b>		
Maharashtra	University of Mumbai	<a href="#">View Document</a>		
<b>Details of UGC recognition</b>				
<b>Under Section</b>	<b>Date</b>	<b>View Document</b>		
2f of UGC				
12B of UGC				
<b>Details of recognition/approval by stationary/regulatory bodies like AICTE, NCTE, MCI, DCI, PCI, RCI etc (other than UGC)</b>				
<b>Statutory Regulatory Authority</b>	<b>Recognition/Approval details Institution/Department programme</b>	<b>Day, Month and year (dd-mm-yyyy)</b>	<b>Validity in months</b>	<b>Remarks</b>
AICTE	<a href="#">View Document</a>	04-04-2018	12	

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

<b>Recognitions</b>	
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

<b>Location and Area of Campus</b>				
<b>Campus Type</b>	<b>Address</b>	<b>Location*</b>	<b>Campus Area in Acres</b>	<b>Built up Area in sq.mts.</b>
Main campus area	Kanakia Park, Mira road (east)	Urban	1.5	11984.25

## 2.2 ACADEMIC INFORMATION

<b>Details of Programmes Offered by the College (Give Data for Current Academic year)</b>						
<b>Programme Level</b>	<b>Name of Programme/Course</b>	<b>Duration in Months</b>	<b>Entry Qualification</b>	<b>Medium of Instruction</b>	<b>Sanctioned Strength</b>	<b>No.of Students Admitted</b>
UG	BE,Electronic And Telecommunication	48	HSC Science CET JEE	English	60	58
UG	BE,Electronics	48	HSC Science CET JEE	English	60	36
UG	BE,Computer Engineering	48	HSC Science CET JEE	English	60	60
UG	BE,Information Technology	48	HSC Science CET JEE	English	60	60
UG	BE,Mechanical Engineering	48	HSC Science CET JEE	English	60	58
UG	BE,Civil Engineering	48	HSC Science CET JEE	English	60	57
PG	ME,Electronic And Telecommunication	24	BE with GATE Score	English	24	6
PG	ME,Computer Engineering	24	BE with GATE score	English	24	8

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

<b>Teaching Faculty</b>												
	<b>Professor</b>				<b>Associate Professor</b>				<b>Assistant Professor</b>			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	11				25				81			
Recruited	1	0	0	1	0	0	0	0	28	53	0	81
Yet to Recruit	10				25				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				4				21			
Recruited	0	0	0	0	2	2	0	4	11	10	0	21
Yet to Recruit	0				0				0			

<b>Non-Teaching Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				28
Recruited	24	4	0	28
Yet to Recruit				0

<b>Technical Staff</b>				
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Total</b>
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				16
Recruited	16	0	0	16
Yet to Recruit				0

**Qualification Details of the Teaching Staff**

<b>Permanent Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	1	0	0	2	2	0	1	1	0	7
M.Phil.	0	0	0	0	0	0	0	1	0	1
PG	0	0	0	0	0	0	27	50	0	77

<b>Temporary Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	1	0	1
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	11	9	0	20

<b>Part Time Teachers</b>										
<b>Highest Qualification</b>	<b>Professor</b>			<b>Associate Professor</b>			<b>Assistant Professor</b>			<b>Total</b>
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	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

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

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	344	26	0	0	370
	Female	66	3	0	0	69
	Others	0	0	0	0	0
PG	Male	2	2	0	0	4
	Female	9	1	0	0	10
	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	2	2	4	2
	Female	3	2	0	1
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	3	5	9	8
	Female	3	0	1	4
	Others	0	0	0	0
General	Male	503	531	462	530
	Female	41	62	53	49
	Others	0	0	0	0
Others	Male	3	2	4	2
	Female	2	0	0	1
	Others	0	0	0	0
Total		560	604	533	597

### 3. Extended Profile

#### 3.1 Program

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

Response: 416

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
8	8	8	8	8

#### 3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1934	1995	2022	1763	1578

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

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

2017-18	2016-17	2015-16	2014-15	2013-14
48	48	48	48	48

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

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

2017-18	2016-17	2015-16	2014-15	2013-14
483	505	475	273	262

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

### 3.3 Teachers

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

2017-18	2016-17	2015-16	2014-15	2013-14
112	110	110	98	69

File Description	Document
Institutional Data in Prescribed Format	<a href="#">View Document</a>

#### Number of sanctioned posts year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
128	128	128	128	128

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

### 3.4 Institution

#### Total number of classrooms and seminar halls

**Response: 24**

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

2017-18	2016-17	2015-16	2014-15	2013-14
602.02	653.88	605.78	611.21	515.46

#### Number of computers

**Response: 369**

## 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:

Teaching Learning Procedure is mainly based on proper planning and effective delivery of Lecture / Practical / Tutorial as per Time table, academic calendar and semester plan. If there is any shortcoming in learning process, necessary remedial work is to be carried out in coordination with HOD. Learning of the student is monitored by the faculty members on the basis of continuous evaluation. Effective development and deployment of action plan for implementing curriculum is as follows:

##### Development / Planning of Academic activities:

The HOD has to decide the Semester plan and design deployment strategy:

- Teaching load and subject allocation is done before the commencement of the Semester and the Academic Calendar is prepared.
- Time-table for the department is designed and displayed. Availability of sufficient classrooms, laboratories, and faculty is checked.
- An Orientation program is conducted for F.E. students and their parents.
- Projects for Final Year BE and ME students are planned based on the Guide's domain and student's interest area.
- Once the subjects are allotted, faculty designs the teaching Plan, Laboratory Plan and Tutorial plan. Faculty members prepare question banks, hand-outs, question papers, experiment write-up for effective conduct of lectures / practicals.
- The faculty maintains the Course File and plans the academic activities to achieve the Program Educational Objectives and Program Specific Outcomes of the Department. It consists of various records regarding planning / completion of lectures / practical along with load adjustment (if any). Students' attendance and many such records are also maintained in the course file.
- Records are maintained in appropriate academic files which will be checked by HOD and cross-checked by Principal.

##### Deployment / Implementation of Academic activities:

- As per the Teaching Plan and time-table, lectures / practical are conducted by faculty. Course material is given to the students well in time for enhancing the lecture delivery in class.
- Daily report is maintained and checked on weekly basis by HOD and cross-checked by the Principal.
- A faculty/HOD has to do an alternative arrangement if he or she is absent or on leave on the day of

lecture / practical / tutorials and extra lectures are taken to compensate the loss.

- Assignments are given to the students and evaluated timely.
- Report of syllabus coverage and list of defaulters is submitted to the Principal at the end of every Month.
- Two internal Term Tests are conducted per semester.
- Submission of term work is done according to schedule.
- Feedback is taken from the student at the end of every semester for each Faculty
- Logbook which consists of Project progress report is monitored by HOD on regularly basis.

### Holistic Development through various methods:

Apart from regular lecture method, the teachers adopt learner centric techniques to engage students through Course Networking, NPTEL Courses, Peer Learning, Group Discussion, Case Studies, Project Reports and Quizzes. Training in life skills through seminars, workshops, industrial visits, public speaking, internships, expert lectures and value education is provided. The staff are continuously updated with innovative teaching strategies through Faculty Development Programmes and regular workshops.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

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

**Response:** 11

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

2017-18	2016-17	2015-16	2014-15	2013-14
5	3	1	1	1

File Description	Document
Details of the certificate/Diploma programs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

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

**Response:** 12.02

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

2017-18	2016-17	2015-16	2014-15	2013-14
6	1	2	3	0

File Description	Document
Details of participation of teachers in various bodies	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.2 Academic Flexibility

<b>1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years</b>	
<b>Response:</b> 82.93	
1.2.1.1 How many new courses are introduced within the last five years	
Response: 345	
File Description	Document
Details of the new courses introduced	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

<b>1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented</b>	
<b>Response:</b> 100	
1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.	
Response: 8	
File Description	Document
Name of the programs in which CBCS is implemented	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

<b>1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years</b>
<b>Response:</b> 7.25

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

2017-18	2016-17	2015-16	2014-15	2013-14
309	253	74	46	21

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

### 1.3 Curriculum Enrichment

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

##### Response:

##### Human Values:

SLRTCE strongly believe inculcating values and ethics in the students. The cultured and ethical behavior of all faculty members and staff members along with traditional campus imparts values and virtues in the students.

##### Professional Ethics:

Courses such as Project Management and Web Programming etc help students grow as a professional. These value added courses are introduced as core / elective / exclusive laboratory courses / exposure courses / interdisciplinary courses. University curriculum consist of some subjects to improve professional ethics in students. A subject titled **COMMUNICATION SKILLS** in first year SEMESTER II improves the life skills and professional skills of students. It helps to improve extracurricular skills in students such as public speaking, effective presentation, technical writing by making effective use of nonverbal communication. This course prepares students to work in the techno-digital corporate environment. Another subject named **BUSINESS COMMUNICATION AND ETHICS** in third year helps to develop professional and ethical attitude, leadership, effective communication, team work and multidisciplinary approach in students.

A subject entitled **SOFTWARE PROJECT MANAGEMENT** in Computer Engineering Department & Information Technology Department defines tools and techniques for the management of a project plan, to monitor and to control a project schedule and budget, and to track project program.

In addition to curriculum, student organizations organize various expert talks/training programs/activities etc. which further support value added courses.

**Environment and sustainability:**

To build awareness about environmental issues in students, University curriculum consist of the subject as **ENVIRONMENTAL STUDIES (EVS)** in First Year. This course helps to give basic knowledge about environment and environmental issues. It also creates awareness about environmental problems and develop skills in students to identify and solve environmental issues by participating in energy conservation, environmental protection and improvement.

To cultivate the importance of social service in students, the NSS committee of college engages the students in community development activities. The college NSS team has adopted a village in the vicinity where students regularly visit and make people aware about various social, moral and ethical issues. Various activities like Tree Plantation, Swacch Bharat Abhiyan, Beach cleaning, Rally on value of Education are organized and implemented by college.

**Gender Equality:**

The college pays keen attention to the aspect of gender equality in almost all activities and allocation of resources. Some of the steps taken to ensure that females are given equal opportunity as men are as follows:

- The right attitude and basic ethics are inculcated for promotion of gender equality.
- There are many stereotypes present in society and the college focuses on eradicating these inequalities at the root itself.
- The teaching-learning process involves giving examples of great women who were/are leaders, scientists, engineers, entrepreneurs, doctors, astronauts and more so that students get inspired and learn to respect everyone irrespective of their gender.
- Several gender sensitive issues are nipped in the bud to avoid conflicts, harassment of female staff and students and build a conducive environment for work/learning.
- Resources such as books, manuals, assignments, lab equipment and reference guides is equally accessible to all.

File Description	Document
Any Additional Information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

**1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years****Response: 1**

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

Response: 1

File Description	Document
Details of the value-added courses imparting transferable and life skills	<a href="#">View Document</a>
Brochure or any other document relating to value added courses.	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

<b>1.3.3 Percentage of students undertaking field projects / internships</b>	
<b>Response:</b> 4.81	
1.3.3.1 Number of students undertaking field projects or internships	
Response: 93	
File Description	Document
List of students enrolled	<a href="#">View Document</a>
Institutional data in prescribed format	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 1.4 Feedback System

<b>1.4.1 Structured feedback received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni and 5) Parents for design and review of syllabus-Semester wise/ year-wise</b>	
<b>A. Any 4 of the above</b>	
<b>B. Any 3 of the above</b>	
<b>C. Any 2 of the above</b>	
<b>D. Any 1 of the above</b>	
<b>Response:</b> A. Any 4 of the above	
File Description	Document
Any additional information	<a href="#">View Document</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	<a href="#">View Document</a>
URL for stakeholder feedback report	<a href="#">View Document</a>

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

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

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

**C. Feedback collected and analysed**

**D. Feedback collected**

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

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

## Criterion 2 - Teaching-learning and Evaluation

### 2.1 Student Enrollment and Profile

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

**Response:** 1.08

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

2017-18	2016-17	2015-16	2014-15	2013-14
14	13	31	19	22

#### File Description

#### Document

List of students (other states and countries)

[View Document](#)

Institutional data in prescribed format

[View Document](#)

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

**Response:** 89.37

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

2017-18	2016-17	2015-16	2014-15	2013-14
597	533	604	560	652

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

2017-18	2016-17	2015-16	2014-15	2013-14
695	651	667	622	662

#### File Description

#### Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

#### 2.1.3 Average percentage of seats filled against seats reserved for various categories as per

**applicable reservation policy during the last five years****Response:** 0

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

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

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

**2.2 Catering to Student Diversity****2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners****Response:****The learning levels of students are assessed in the following ways:****1. ORIENTATION PROGRAMME FOR FIRST YEAR:**

Interaction sessions where questions are encouraged by students and parents regarding subjects, syllabus, and evaluation process etc. The students' previous knowledge is also identified on general basis.

**2. CLASSROOM TEACHING:**

a) Concepts: In the first two weeks, the learner is introduced to basic concepts of subjects and their conceptual knowledge is identified.

b) Critical Thinking: The learner is made to analyse the attributes/problems and suggest solutions. Based on this the teacher evaluates their ability to comprehend subject matter.

c) Communication: Weekly assignments and discussions enable the teacher to judge the learner's language skills and ability to communicate ideas effectively.

d) Creativity: The learner's constructive approach is tested through module assignments and lab experiments.

e) Online network: Course networking is used greatly to enhance, assimilate and evaluate the learning processes. Each teacher creates a Course based on the subject taught and the students of the class join the Course. Right from the Course Syllabus to Assignments and Quizzes, many tools are used for interaction

thus making students proactive and gain mastery in subject knowledge.

**3. PRACTICALS/TUTORIALS:** The teacher addresses a limited number of students (batch wise), and pays individual attention to each during the practical/tutorial which is well-planned. Certain experiments, activities such as discussion, debate, presentation, quiz etc, are conducted for active participation of learners. This helps pinpoint those who are weaker in grasping basic concepts and applying them in other areas. It also helps identify advanced learners who need special coaching to promote their skills and talent. Students are encouraged to join Online Courses via NPTEL to get additional and advanced knowledge apart from the syllabus prescribed by University.

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

### 2.2.2 Student - Full time teacher ratio

**Response:** 17.27

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

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

**Response:** 0

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

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

## 2.3 Teaching- Learning Process

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

**Response:**

The teachers are equipped with a powerful support system to make learning constructive and meaningful. Various strategies are adopted at different levels to provide concrete experiences and develop capacities in students to tackle various challenges.

#### **EXPERIENTIAL LEARNING:**

To make learning more student centric, experiential methods are followed at departmental level. The

following techniques are used to teach various modules and help students build technical knowledge and deep insights. They are as follows:

- Use of ICT such as course networking, blogs, online tests, NPTEL, Language Lab
- Group discussion, Collaboration, Teamwork, Assignment groups
- Industrial visits, Internships, Exhibitions
- Dissertations, Incubation, Research
- Tutorials, Mock-meetings, Mock Interviews
- Hands on experience, Project building

### **PARTICIPATIVE LEARNING:**

Students are fully involved in the planning and execution of projects and examination, group discussions. Students frame the problems, analyze, resolve and present the case with other class groups. Students observe each others' presentation and learn further from others' efforts.

- Flip Classroom where students can acquire knowledge outside the classroom and assimilate the matter inside the classroom through discussion and presentation. Each teacher has a college email ID through which students are given weekly tasks. Apart from this, WhatsApp groups are created to promote continuous interaction between students and the teacher.
- Student representatives are appointed for individual subjects, apart from the class representative, so that many students get a chance to experience responsibility and coordinate with students from various batches.
- Course networking is used at all levels to impart information easily to students and evaluate them at different stages of learning.
- Supportive measures like English communication courses are offered.
- The support structures and systems available for the students to develop skills like involvement in paper presentation, debate competition, technical events, project competition and mini projects, tutorials, quiz and wall magazine etc.
- Students are allowed to participate in various seminars and workshops, organized by other college and universities, which gives them an opportunity to interact with students of other colleges.

### **PROBLEM SOLVING:**

Problem solving approach boosts the student to take initiatives to resolve issues/difficulties their own. Individually, they perform experiments in practicals/ tutorial session, and in group, they are engaged in formal projects. They learn to define/ elucidate the problem, delve deep into the causes, create new ideas and find the solutions of the problem.

Case studies are assigned to make them exposed to the existing problems in specific domain and other domains as well. They are able to critically analyse technical, behavioral and ethical issues in corporate sector and prepare to face challenges in life.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

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

**Response:** 100

#### 2.3.2.1 Number of teachers using ICT

Response: 112

File Description	Document
List of teachers (using ICT for teaching)	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Provide link for webpage describing the " LMS/ Academic management system"	<a href="#">View Document</a>

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

**Response:** 17.27

#### 2.3.3.1 Number of mentors

Response: 112

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

### 2.3.4 Innovation and creativity in teaching-learning

**Response:**

Apart from conventional teaching-learning methods viz.: textbook method, lecture method etc., new approaches such as Student-Centred Learning (SCL), Problem Based Learning, and Case Studies are implemented well to equip students with active learning where they are completely involved in teaching learning process. For eg: Powerpoint presentations/AV aids/Teaching aids for subjects like physics/mechanics etc. to get better results and cater to all types of students.

**Some of the newer approaches used are**

**1. Problem Based Learning:** The teacher creates student groups and assigns a focused question for self-study. Multiple questions, home assignments, use of relevant mobile applications, solving doubts of other students, are some of the things students are constantly engaged in through this process.

**2. Integrated Learning:** Students excelling in certain subjects are identified and given guidance to perform research in their area of interest. These students prepare technical papers/projects/software to present their ideas. Events like NOVA, Utsav etc. are organized to set a platform for students to integrate knowledge from various fields and develop their skills.

**3. Case studies:** Students analyze, prepare and present case studies in the following subjects:

Environmental Science, Business Communication and Ethics, Embedded Systems, Computer Communication Networks, Power Electronics, IC Engine etc.

**4. Project Based Learning:** Globalization and the introduction of new technologies made it pertinent to help students gain innovative insights and ability of deep thinking. In the Third Year and Final Year, students of all branches are made to work on mini projects and synopsis, reports etc. to enhance their cognitive and psychomotor development.

**5. Discovery learning cum Inducto-Deductive Method:** The teacher introduces examples of a concept especially at First Year in Applied subjects. After generalizing the common elements in all examples, the student is asked to discover the concept and define its characteristics/features. The teacher then clarifies their concept and concretizes the understanding by another example/demonstration/visual aid. The students are then told to solve problems/create their own examples related to the concept and state the applications in day-to-day life.

The teaching plan clearly states which method is used by a teacher to teach a particular module. Student feedback helps the teacher to modify their methodologies and choose the most suitable teaching technique. The IQAC and Department HODs observe the performance of teachers and promote best practices to be adopted more widely.

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

## 2.4 Teacher Profile and Quality

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

**Response:** 77.97

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	<a href="#">View Document</a>
List of the faculty members authenticated by the Head of HEI	<a href="#">View Document</a>

#### 2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

**Response:** 4.08

##### 2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
7	5	4	3	2

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 2.4.3 Teaching experience per full time teacher in number of years

**Response:** 7.01

##### 2.4.3.1 Total experience of full-time teachers

Response: 784.6

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

#### 2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

**Response:** 25.05

##### 2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
14	2	2	3	4

File Description	Document
Institutional data in prescribed format	<a href="#">View Document</a>
e-copies of award letters (scanned or soft copy)	<a href="#">View Document</a>

#### 2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

**Response:** 2.5

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

2017-18	2016-17	2015-16	2014-15	2013-14
1	4	2	6	3

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

## 2.5 Evaluation Process and Reforms

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

**Response:**

The Internal examination scheme for the various courses consists of two components: 'Internal Exam' and 'End-Semester practical/viva exam'. For theory courses, the internal exam is conducted under two categories – 'Term Test-1' and 'Term Test-2'. These short duration tests are held approximately after 40-45 days of teaching during the semester and hence, ensure continuous evaluation of students' performance. For laboratory courses, students' performance in every session is evaluated on the basis of experiment / assignment performed, thereby ensuring the evaluation of the entire course on continuous basis throughout the semester. The answer-books of T1 and T2 are made available to the students. Model answers are discussed in the class. This helps students to know their shortcomings and areas of improvement.

Other reforms in CIE are done through Teaching and learning assessments which are divided into the following three categories:

1. Diagnostic Assessment: The teacher performs this assessment at the beginning of the Semester by identifying student's previous knowledge and developed skills. The teacher checks the student's general aptitude through probing-questioning and the level of skill development through simple tasks. This helps the teacher plan effective techniques and evaluation methods to enhance the learning experience of the student.
2. Formative Assessment: This happens during the teaching-learning process. It is a continuous form of evaluation based on student responses and feedback. The teacher can instantly identify the level of learning through methods like surprise quizzes, probing questioning, observation by the teacher and the students solving problems individually.
3. Summative Assessment: This includes Weekly Tutorials, Term Tests 1 and 2, Term Work, Practical Exam, and Semester Exams, in which teachers assign marks to the students based on their performance. The students are evaluated keeping Bloom's Taxonomy in mind with the focus on oral/written/practical examinations. Based on the reports of weekly tests and term tests, the students are identified as slow learners/advanced learners/average learners and are given appropriate remedial coaching. The class teacher keeps a record of students failing in particular subjects even after remedial teaching. Such students are given special assignments to help them clear the Internal Exams.

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

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

#### Response:

Orientation program is conducted by the college regarding the internal assessment for all students. Their queries are answered in orientation session as well as in exam cell. The rules and regulations are published on the answer sheets. Parents' queries are addressed by the Examination Cell. The faculty members also explain the examination reforms to the students during their lectures. Relevant circulars are also displayed on college notice boards and website. Term test paper pattern is fixed by university and is strictly followed by college. No names are written on answer sheets, only roll numbers to protect the identity of students.

Internal assessment is transparent such as term-test papers are shown to students to find out how did student perform, assignments are assessed on timely basis, tutorials and practical performance marks are given on the basis of their regularity, sincerity and punctuality.

***The Examination Committee plays a major role in maintaining transparency and robustness in the Internal Exams.***

The Examination committee is an apex body of the Institute which is headed by the Examination

In-Charge who administers all the work done. Further roles are allotted for conduction of exams, keeping records, maintenance.

The objective of the Committee is to conduct Internal Assessment and External Assessment Examination related all work as per University notifications and ordinance.

Responsibilities carried out by the Examination Committee, related to Internal Assessment are as follows:

- Prepares relevant time tables for Internal Exams based on the Academic Calendar prescribed by the University of Mumbai.
- Block wise allocation and class wise seating arrangement is prepared and displayed on the Notice Boards in each department and on the Institute Website
- Prepares and displays an overall Supervision Duty List as well as Daily Supervision Duty List on the Staff Notice Board.
- The Exam Committee provides adequate stationery - answer sheets, supplements, drawing sheets, tables/graphs, thread for tying the sheets. Drinking Water is also provided to any student who asks for it.
- Makes a list of examiners from each Department for assessment and moderation of the respective subjects.
- All the results (First Year to Final Year) are displayed on the respective student Notice Boards. A copy of the same is maintained in each Department.

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

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

#### Response:

In internal assessment examinations, evaluated answer-sheets are shown to students and concerned faculty members address the queries of the students. For End-semester examination photocopy of the answer-sheets are made available to the students on demand. In case of any grievances revaluation of answer-sheets is done.

To deal with the grievances of examination:

- Revaluation forms are filled up.
- Students can request for photocopy of their papers.
- Applications are taken from students for any grievances in the result and it is forwarded to university.

- Students are given a chance to appear for an Internal Test on another day in case they were unable to attend the actual exam due to medical reasons. (Medical certificates are submitted to the Examination Cell)
- In case of any other grievance/complaint students can submit a letter to the Examination Cell or mail to [examination@slrtce.in](mailto:examination@slrtce.in). The Convener of Examination Committee further looks into the matter.

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

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

##### Response:

- The Academic year starts as per the schedule provided by Mumbai University.
- The University prepares and publishes the academic calendar for every academic year which includes plans for yearlong important curricular activities based on the available working/teaching days as per UGC norms. The academic calendar mainly includes, dates of various test, mid-semesters, semesters and end examination and tentative dates for oral and practical examination
- There is a committee in the institute responsible for making the academic calendar which is in concurrence with the University calendar. It is prepared one month before the commencement of the semester. The committee carefully plans the dates for Term Test 1 and 2, Oral and Practical Exams, Submission of Course Journal etc.
- The subject teachers prepare the teaching plan according to the Academic Calendar and plan coverage of syllabus and other activities according to the prescribed Internal Exam schedule so that students are aware of the syllabus for each test and can prepare beforehand.
- Academic calendar of the institute includes curricular transaction assessment schedule, academic technical events, list of holidays, class test, midterm submission, online examination and in-sem examination.
- The students are informed about time table and academic calendar well in advance.

All these details along with the syllabus are given to the student at the time of commencement of academics in the orientation program and also uploaded on the college website.

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

## 2.6 Student Performance and Learning Outcomes

**2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students**

**Response:**

The college has stated learning outcomes for its program. Mumbai University specifies objective and outcomes for every course/subject separate course which are discussed with staff in departmental meetings. They are also mentioned in course files. While defining these outcomes graduate attribute requirements are considered.

The faculty and students are disseminated through:

**Institute website:**

The vision mission of the Institute as well as each Department is displayed on the College website. PEOs and POs are listed to share the information with any one who visits the Department Page on the website.

**Department notice boards:**

On every floor, the Vision/Mission/Programme Objectives and Programme Educational Outcomes are displayed on a special Board affixed to the wall permanently.

**Laboratory notice board:**

The PEOs and POs are displayed on the Notice Board of each laboratory.

File Description	Document
COs for all courses (exemplars from Glossary)	<a href="#">View Document</a>

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

Program Outcomes are the main focus of teaching –learning. Assessment tools such as internal tests, laboratories, quizzes etc. are developed for continuous evaluation during the term relevant to these outcomes.

For Internal Evaluation, question papers are set with appropriate mapping/ weightage on each outcome mentioned and covering levels of taxonomy.

Course Feedback is collected from the students at the end of the semester which gives students perspective on Learning Outcomes.

The attainment of Learning Outcomes is monitored by well-defined outcome assessment for each course.

The gaps are identified and decisions are taken to improvise content delivery methods or assessment tools.

Suggestions are given for minor changes in question paper pattern if required.

Further, for attainment of PO, PSO and CO:

- Each question in the exam paper is framed keeping in mind the Course Objectives and later analysis is done to determine the achievement by each students in the exams.
- By employing the cognitive processes when deciding the questions makes sure that the assessment finds its mark. Also, every question is to be mapped to a CO and every CO is to be mapped to a PO.

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

### 2.6.3 Average pass percentage of Students

**Response:** 95.38

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 475

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

Response: 498

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

## 2.7 Student Satisfaction Survey

**2.7.1 Online student satisfaction survey regarding teaching learning process**

**Response:** 3.24

## Criterion 3 - Research, Innovations and Extension

### 3.1 Resource Mobilization for Research

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

**Response:** 1.01

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

2017-18	2016-17	2015-16	2014-15	2013-14
0	0.51	0.25	0.25	0

File Description	Document
List of project and grant details	<a href="#">View Document</a>
e-copies of the grant award letters for research projects sponsored by non-government	<a href="#">View Document</a>

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

**Response:** 2.68

3.1.2.1 Number of teachers recognised as research guides

Response: 3

**3.1.3 Number of research projects per teacher funded, by government and non-government agencies, during the last five year**

**Response:** 0.03

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

Response: 3

3.1.3.2 Number of full time teachers worked in the institution during the last 5 years

Response: 499

File Description	Document
Supporting document from Funding Agency	<a href="#">View Document</a>

## 3.2 Innovation Ecosystem

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

#### Response:

The Institute's Incubation Centre 'Vyavasay Abhyas Niketan' aims at creating a conducive environment to disseminate knowledge and develop skills for entrepreneurship and innovation.

Our main activities, which we aspire to achieve, are:

- Focus is laid on incubating ideas for entrepreneurship based on technology and innovation.
- Creation of Technology Based incubates regularly.
- Help to create value added jobs and services.
- Enhance networking through professional links which include industry experts, professional mentors, consultants, experienced professors and advisors.
- Fostering the entrepreneurial spirit.
- To make students aware about Technology Incubation, Product Design and Production, Strategic Marketing Processes.
- Open Source use of software and other technology
- Promote small & medium industries.
- Assistance to existing incubates by way of specialized services

#### List of Activities:

- Mr. Gaurang Mehta conducted workshop on incubation, start-ups and entrepreneurship.
  - Start-ups incubated in SLRTCE – 'House of Tees' by our students Sajjan Mishra and Vinay Nair.
- House of Tees: Selling customized T-shirts, raglan, fullsleever and other apparels for men/women and kids.

Inauguration of the Institute's E-Cell and a Workshop on Entrepreneurship was conducted by Mr. Ajeet Khurana – Angel Investor and Former CEO, IIT-Bombay SINE. The Speaker, Mr. Ajeet Khurana, Principal Dr. Ram Reddy, E-cell In charge and Faculty Advisor Prof. Rajesh Gaikwad, student coordinators and members of E –cell were present for Inauguration of Workshop.

There were some more events conducted under the guidelines of IIT Bombay such as:

- Freshman Orientation,
- Business Quiz were conducted
- Facebook of E-cell was created
- Case study on Gunnar Lovelace

So far the E-cell participant has cleared Stage I of Formation of E-cell.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

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

**Response:** 121

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

2017-18	2016-17	2015-16	2014-15	2013-14
41	23	27	20	10

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

### 3.3 Research Publications and Awards

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

**Response:** Yes

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

**3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards**

**Response:** No

### 3.3.3 Number of Ph.D.s awarded per teacher during the last five years

**Response:** 1

3.3.3.1 How many Ph.Ds awarded within last five years

**Response:** 2

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

**Response:** 2

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years

**Response:** 2.97

3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
147	59	38	40	12

File Description	Document
List of research papers by title, author, department, name and year of publication	<a href="#">View Document</a>

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

**Response:** 2.17

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

2017-18	2016-17	2015-16	2014-15	2013-14
163	23	14	15	2

File Description	Document
List books and chapters in edited volumes / books published	<a href="#">View Document</a>

### 3.4 Extension Activities

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

##### Response:

The Institute insists upon inculcating moral, ethical and social values in students to develop them as responsible citizens of India. Various committees involving students and faculties are active in the college. Students are motivated to carry out various social activities like the following:

- Plantations drives that are arranged time to time to increase greenery within the campus and surroundings
- Rain water harvesting initiative
- Blood donation and Medical camp
- NSS is active in college and different activities are undertaken-personality development
- SLRTCE undertake community based activities through SLRTCE Alumni Association, WDC Women Development Cell, and SLRTCE N.C.C etc.
- Value education through enrichment courses on wellness, social awareness to SLRTCE students.
- Awareness about health and hygiene students.
- Donation of cloth, books, toys and computers to orphanages, electronic equipment to old age homes.
- Active participation in Anti-Ragging activities.

These programs help in personality development of the students, in learning organization skills and grooming students to become good citizens, such in-depth training helps students in acquiring holistic development.

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

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

##### Response: 8

3.4.2.1 Total number of awards and recognition received for extension activities from Government

/recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	3	2

File Description	Document
Number of awards for extension activities in last 5 years	<a href="#">View Document</a>
e-copy of the award letters	<a href="#">View Document</a>

### 3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

**Response: 11**

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

2017-18	2016-17	2015-16	2014-15	2013-14
5	3	3	0	0

File Description	Document
Reports of the event organized	<a href="#">View Document</a>
Number of extension and outreach programs conducted with industry,community etc for the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

**Response: 8.43**

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-

wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
414	266	150	0	0

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

### 3.5 Collaboration

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

**Response:** 65

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

2017-18	2016-17	2015-16	2014-15	2013-14
24	26	12	2	1

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

**3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)**

**Response:** 3

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

2017-18	2016-17	2015-16	2014-15	2013-14
2	0	1	0	0

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

NAAC

## Criterion 4 - Infrastructure and Learning Resources

### 4.1 Physical Facilities

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

**Response:**

As per the standards laid down by AICTE the Institute has sufficient facilities for teaching-learning. The classrooms are spacious and some are ICT enabled.

The laboratories are fully equipped with instruments, machineries, IT infrastructure etc.as per AICTE norms. They are well equipped with latest instruments and software. This helps students perform experiments, create designs of models, test and evaluate them. Simulation in research areas of VLSI Design & VLSI Signal Processing, Signal Processing for Information, Antenna and Microwave for 5G is conducted. All classrooms are spacious, well-ventilated with bright natural light. The classes are equipped with modern audio visual devices to show power point presentations and videos. The classroom furniture is custom made to suit students' and teachers' requirement for convenient seating for long duration. Some classrooms are also equipped with an LCD projector and screen for a more effective teaching learning experience. Apart from classrooms and well-equipped laboratories, the Institute has tutorial rooms where information is imparted to a smaller group of students for better understanding of subject modules. The college has exclusive language lab with audio video facility. Common room for girls is available in the campus.

The Seminar Hall with a capacity to accommodate 100 students is fully air conditioned and serves as the venue for guest lectures, co-curricular activities like seminars and paper presentation and face-to-face interaction with distinguished personalities and experts from the industry. The Seminar Hall is equipped with latest audio-visual equipment and accessories.

The Central Library at Shree L R Tiwari College of Engineering meets the information needs of fraternity to include students, research scholar's faculty and staff. The library has the updated collection of books and journals and other resources as prescribed by the syllabus. Electronic journals, magazines, CDs and other technical articles are available. The library is partially automated and has an SML Library Management System.

The workshop is equipped with the necessary equipment and tools required to train the students in prescribed trades like carpentry, fitting, electrical board wiring and PCB laboratory exercises. Our experienced staff helps the students to acquire hands-on-experience in basic engineering skills.

Along with available facilities, the management has proposed various infrastructural facilities which will enhance the overall development and growth of students and faculties in the coming years.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

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

##### Response:

The Institute provides many facilities for students to engage in extra-curricular activities and develop ability in sports. The Sports Committee and Cultural Committee, of faculty and students, handles the overall organization of the events on certain days planned. Following are the facilities for the overall development of students.

##### Gymnasium:

The gymnasium covers 120 sq. m. on the ground floor of building no. 2 which was established in the year 2012. The indoor facility includes Carom, Chess, Table Tennis and Badminton. On an average, there are 50 visitors per week at the gymnasium.

##### Sport:

SLRTCE has facilities for playing football, handball, volleyball and many other games. For annual sports, the institute organizes the intra-college and inter-college sports events on a large level at 'Netaji Subhash Chandra Bose Ground, Bhayandar'.

##### Cultural Activities:

The institute organizes cultural events at the Annual Cultural Festival named 'Utsav'. Students are encouraged to participate in several competitions such as dance, singing, drama, stand-up comedy, fashion shows etc. The festival, organized by a well-structured committee is a good platform for students and faculties to showcase their hidden talent. The stage and other infrastructure related to the amenities are arranged by the college management. The institute actively encourages the students to participate in various extra-curricular activities in order to build team spirit and leadership qualities.

##### NSS:

The institute has an NSS group which comprises of students and two dedicated staff members as per the guidelines of University of Mumbai. This unit provides a platform for various social events like blood donation camp, tree plantation and social awareness through visits to orphanages/old age homes, rally, skits, cleanliness drives, volunteering at public places and celebrating days of national importance.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

#### 4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

**Response:** 87.5

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

Response: 21

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	<a href="#">View Document</a>
Link for additional information which is optional	<a href="#">View Document</a>

#### 4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

**Response:** 25.13

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

2017-18	2016-17	2015-16	2014-15	2013-14
37	111	127	277	186.7

File Description	Document
Details of budget allocation, excluding salary during the last five years	<a href="#">View Document</a>
Audited utilization statements	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

## 4.2 Library as a Learning Resource

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

**Response:**

The library of SLRTCE is spread in 415.95 sq mt area with the capacity of 100 students. It is partially automated. The software used is SMS Library Management System. The library has dedicated committee. Library has 16860 volumes of books comprising of 3090 titles. We have 21 national journals and 13 international journals. Digital library has been maintained at college central library. It contains course material such as power point presentations and e books for all the branches as per Mumbai University curriculum. Digital library can be accessed by the students within the campus using dedicated IP address. It is protected with user id and password.

- *Name of the ILMS software- SMS Library Management System*
- *Nature of automation-Partially*
- *Version-1.0.542*
- *Year of Automation -2010*

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

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

##### Response:

The library of SLRTCE includes dissertation reports of research scholars which will help the students to upgrade their knowledge. It also helps students to implement project ideas. Library also includes 21 national journals and 13 international journals. It is a source of knowledge for teachers as well as students. It has special section which contains material to prepare students for competitive exams like GATE, GRE, TOFEL etc. 9 Daily newspapers are also accommodated along with NPTEL videos, CD and DVD of various disciplines. Some motivational books, novels and spiritual books are also kept to inculcate ethical values. The projects reports of BE students of all the departments are also maintained in library.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

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

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

**A. Any 4 of the above**

**B. Any 3 of the above**

**C. Any 2 of the above**

**D. Any 1 of the above**

**Response:** D. Any 1 of the above

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

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

**Response:** 16.63

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

2017-18	2016-17	2015-16	2014-15	2013-14
19.39	10.17	37.49	5.82	10.29

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	<a href="#">View Document</a>
Audited statements of accounts	<a href="#">View Document</a>

#### 4.2.5 Availability of remote access to e-resources of the library

**Response:** No

#### 4.2.6 Percentage per day usage of library by teachers and students

**Response:** 0.98

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

**Response:** 20

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

### 4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi
<p><b>Response:</b></p> <p>The college has well equipped laboratories and internet facility. Currently the college is equipped with 20 Mbps, 25 Mbps and 2 Mbps leased-line. The institute has 4G Jio Wi-Fi routers, for both faculties as well as students, with unlimited downloading capacity. Almost all classrooms have LCD projector facility for enhancing the teaching-learning process. Each laboratory is provided with one printer. The internet is secured with firewall and antivirus. All the software installed are either licensed copies or open source. The institute regularly updates the license of the operating system installed. The institute has the policy to regularly replace the old computers. The maintenance of IT facility is done twice a month by the lab assistant.</p>

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

4.3.2 Student - Computer ratio
<p><b>Response:</b> 5.24</p>

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

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)
<p><b>&gt;=50 MBPS</b></p> <p><b>35-50 MBPS</b></p> <p><b>20-35 MBPS</b></p> <p><b>5-20 MBPS</b></p> <p><b>Response:</b> 20-35 MBPS</p>

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

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

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

**4.4 Maintenance of Campus Infrastructure****4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years****Response:** 31.23

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

2017-18	2016-17	2015-16	2014-15	2013-14
161.5	239.5	203.66	221.42	173.38

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	<a href="#">View Document</a>

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

The college has appointed staff to look after the overall housekeeping activities in the campus. A casual repairs of buildings is carried out on daily wage basis and there is a contractor for substantial works. Authorized faculties from respective departments handle the maintenance of laboratories and IT infrastructure of the institute. For machine shops and workshops, the workshop in-charge takes responsibility of general maintenance. For major issues, a service provider is consulted. Classrooms and laboratories are cleaned daily as well as the computers are dusted regularly. The electrical appliances including fan, tube lights and electrical sockets are checked every week. Record of equipment servicing is

maintained. During servicing if anything needs to be purchased it is done through a requisition slip. Curtains are cleaned every six months. Toilets and washrooms are cleaned twice daily by the in-house employees under the supervision of the admin office. CCTV including ICT infrastructure is maintained by the IT officer along with technical support staff. The furniture including benches and desks are checked every month and the repairs are carried out if necessary. Other maintenance issues relating to carpentry, plumbing and are attended by the carpenter, plumber and electrician of the institute. Rules are laid down to be followed in classrooms and laboratories.

The **general policy to be followed in classrooms** is 1. Entering and leaving the classroom quietly and on time. 2. Not to litter in the classroom. 3. Usage of mobile is banned in classrooms. 4. Switch off the lights and fans when not required. 5. No running in the corridors and sitting on the staircase. 6. Wearing of ID cards for students and staff is compulsory in the College campus.

The **general policy to be followed in the laboratories** is 1. Mobile phone usage is forbidden.

2. Shutdown the computer system after your practical. 3. Users should comply with the regulation regarding social media sites and forums. 4. No use of external storage devices such as pen drives/Hard disks etc. for protection from unwanted viruses and copy of college data.

The **general policy for the sports complex** is 1. Using abusive language during practice sessions is forbidden. 2. The ground should be kept clean. 3. Bikes are not permitted on the ground.

The **general policy to be followed in the library** is 1. Maintain silence 2. Return books in good condition 3. To return the books and journals in demand. 4. To enter all books that are issued in the Library Register. 5. To follow all norm pertaining to computer lab resources in the e-library section.

**Maintenance of the resources** 1. Maintenance of dead stock as well as consumable registers. 2. To plan for the purchase of equipment for the coming term well in advance. Each staff fills a requisition form for all stationery and books required at the beginning of the semester 3. In case of theft/ damage, report the matter in writing to the HOD and suggest further action to compensate for the loss.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

## Criterion 5 - Student Support and Progression

### 5.1 Student Support

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

**Response:** 15.1

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

2017-18	2016-17	2015-16	2014-15	2013-14
449	323	261	203	184

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	<a href="#">View Document</a>
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	<a href="#">View Document</a>

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

**Response:** 0.25

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

2017-18	2016-17	2015-16	2014-15	2013-14
4	15	5	0	1

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

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

1. For competitive examinations
2. Career counselling

- 3. Soft skill development
- 4. Remedial coaching
- 5. Language lab
- 6. Bridge courses
- 7. Yoga and meditation
- 8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

**Response:** C. Any 5 of the above

File Description	Document
Details of capability enhancement and development schemes	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Link to Institutional website	<a href="#">View Document</a>

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

**Response:** 15.08

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

2017-18	2016-17	2015-16	2014-15	2013-14
664	789	31	0	0

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

**5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years****Response:** 0

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

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

**File Description****Document**

Details of the students benefited by VET

[View Document](#)**5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases****Response:** Yes**File Description****Document**

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:** 15.83

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

2017-18	2016-17	2015-16	2014-15	2013-14
152	133	50	16	13

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

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

**Response:** 1.86

#### 5.2.2.1 Number of outgoing students progressing to higher education

Response: 9

File Description	Document
Upload supporting data for student/alumni	<a href="#">View Document</a>
Details of student progression to higher education	<a href="#">View Document</a>

### 5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

**Response:** 75.46

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

2017-18	2016-17	2015-16	2014-15	2013-14
16	44	24	14	16

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

2017-18	2016-17	2015-16	2014-15	2013-14
49	62	24	19	16

File Description	Document
Upload supporting data for the same	<a href="#">View Document</a>
Number of students qualifying in state/ national/ international level examinations during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

### 5.3 Student Participation and Activities

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

**Response:** 14

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

2017-18	2016-17	2015-16	2014-15	2013-14
6	7	1	0	0

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

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

**Response:**

Students' council is the largest student body of our college that holds various responsibilities like organization of events, reporting student grievance, promoting talent and directing students to participate in curricular and extracurricular activities. The members of the Council are elected according to the ordinance passed by University. A team of 5 Executive members along with faculty authorities support the administration and execution of all activities on campus. One staff member is appointed as Chairperson to monitor the functions of the Council and render guidance when necessary. The Student Council makes constant efforts to conduct programmes and encourage students to participate and gain experience. It helps navigate all student-related activities at

SLRTCE. They work along with all the other student-groups to organize events and keep all students of the college involved in extracurricular activities. Furthermore, they attend to any queries and resolve issues at student level. They act as liaison between college management and students, organizing technical, literary and cultural activities throughout the year like celebration of festivals, sports, Women Development Cell activities. Precisely, the student council adheres to promote innovative ideas and allows students to share their knowledge and ideas with other students; promotes and arranges extracurricular activities to provide a platform to students in the performing arts; channelizes student energy in leisure time and lastly identifies the role suitable for each student in the final execution of the activity. This fills the gap between theoretical knowledge and practical experience in a real-life environment. Hence the council inexhaustibly works not only for the educational development of students, but also instigates and brings out versatility in them.

#### **Major Activities:**

Some of the activities organized every year by the student council are enlisted below:

1. **National Sports Day - August**
2. **Kaspah: Fresher's Day - September**
3. **Teacher's Day - September**
4. **Engineer's Day - September**
5. **Ganesh Sketching Eve - September**
6. **Raas Garba Utsav - October**
7. **Word Wheel: Group Discussion - October**
8. **One day Industrial Visit - October**
9. **Vyavasay Abhyas Niketan Day: Incubation Cell - October**
10. **National Entrepreneurs' Day - November**
11. **Women's Day - March**
12. **Utsav Techfest - March**
13. **Utsav Cultural Fest - March**
14. **Utsav Sportsfest - March**
15. **Traditional Day - April**
16. **BE Farewell - April** The student council also instructs student groups and allocates them in

the management, organizing and volunteering of departmental workshops, seminars, Job Fairs, international/ national conferences, and NSS activities. Student chapters of professional societies such as IETE, CSI, CESA, etc. are assisted by the Council. All other activities that involve public relations as well as publications of College Magazine are supervised by the Council.

<b>File Description</b>	<b>Document</b>
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

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

**Response:** 5.4

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

2017-18	2016-17	2015-16	2014-15	2013-14
6	6	6	5	4

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

## 5.4 Alumni Engagement

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

**Response:**

Shree L.R.Tiwari College of Engineering (SLRTCE), a self-financed and linguistic minority institute was established in AY 2010-11 with a clear objective of providing quality technical education in tune with international standards and contemporary global requirements. The institute has opted for ISO 9001 certification in 2012. Thereafter steps were taken to improve the quality of technical education through faculty development programs, improved technology in teaching-learning and research development. Success for an Institute of higher education, in general, is measured by its ability to

**impart quality education to create employable graduates with professional skill-sets.**

**The formal Alumni Association of the institute was formed in Academic Year 2014-15. Our first engineering students graduated in May 2014. Since then the alumni meet is organized every year in the month of November - December, preferably on a Saturday. If the Alumni meet falls around festival time like Navratri, the college organizes cultural activities like 'Garba Raas' for the alumnis.**

**The following activities are carried out by Alumni:**

**? Successful alumnae are invited to deliver guest lectures on recent trends in technology.**

**? They also share their professional experience and motivate the students.**

**? The alumnae actively participate as judges in various technical and non-technical competitions organized**

**at the institute during our cultural functions as well technical festival.**

**? Alumni stay connected with Department HODs and give them information regarding latest trends in industry sector.**

**? Alumni also connect to the final year students and provide guidance for campus interviews for different types of companies. They also volunteer as guides and sponsors for certain final year projects..**

**? Alumni help in arranging seminars in key areas and share experiences.**

**The Annual Alumni Meet provides networking opportunities for the current students with the Alumni. They learn more from the experience shared by the Alumni. Suggestions for improving the teaching learning processes, campus placement, student services etc., given by the alumni, are put into practice.**

**Recently. the institute has put in efforts to form a registered Alumni Association in 2017. The registered name of the alumni association is "UTSAV ALUMNI ASSOCIATION" and the registration number is "MAHA/1858/17/THANE".**

**As part of the Association activities, the institute plans to do the following:**

- Arrange an Alumni Meet every year**
- Organize curricular events like student conferences etc.**
- Conducting mock interviews and resume writing sessions for enhancing placements**
- Arranging guest lectures by alumni members and other prominent people on current technical and non-technical topics**

- Helping students to get sponsored projects and internships.
- Donating books to library

Our institute is looking forward to enhance its processes with the support of our eminent alumni and expert professors.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

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

? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

**Response:** <1 Lakh

File Description	Document
Alumni association audited statements	<a href="#">View Document</a>

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

**Response:** 4

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

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	0	2	0

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years	<a href="#">View Document</a>
Report of the event	<a href="#">View Document</a>

NAAC

## Criterion 6 - Governance, Leadership and Management

### 6.1 Institutional Vision and Leadership

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

**Response:**

**Vision of the Institute:**

**“To be a world class institute and a front runner in educational and socioeconomic development of nation by providing high quality technical education to students from all sections of society.”**

Achievement of high standards is attained by establishing and sustaining prerequisites and facilities as par the best available resources for the professional development of the students.

The vision of imparting value based education is achieved by keeping a strong focus on social commitment (NSS), ethical integrity and respect for national interest constantly amongst the student fraternity. The advisory board of the Institute comprises of selected renowned industrialist, businessman, academicians and high achievers from among the society. The advisory board meets regularly to evaluate the past performance and provide overall direction for the future to the Institute. It acts in advisory capacity and provides meaningful critical appraisal of the past Performance in the given time frame and also provides directions and recommendations for future course of action. The Governing Body studies the suggestions /recommendation of the advisory body and prepares a detailed plan of action for future implementation by the Institute’s functionaries.

**Mission of the Institute:**

**“To provide superior learning experiences in a caring and conductive environment so as to empower students to be successful in life and contribute positively in society.”**

The mission emphasizes on high quality education, building a strong cadre of professional managers and nation building. High quality education is ensured through providing excellent infrastructure viz., well qualified and motivated faculty, classrooms, library, computer labs etc. in order to impart quality education at par with other reputed Institutes of the country. Professional management skills of the students are honed by insistence on participation in seminars, conferences, regular formal training in group discussions,

enhancing soft skills, participative skills and team work. Under the guidance of the Principal and Heads of the department, action plans for various activities are prepared. The institute prepares an academic calendar for smooth functioning of academics throughout the whole year. The information about the curricular, co-curricular and extracurricular activities to be organized throughout the semester is mentioned in the calendar. The institute has multiple committees like library committee, technical, cultural, examination, grievance etc to plan out different activities. The institute has Memorandum of Understanding (MOU) with well known companies to provide value added courses, training and placement to students. The College has organized National and International Conferences. The College Annual National level Technical Festival has students participating from other colleges in events like Technical Paper Presentation and Project Competition which bring out the best ideas to help society. The Annual Cultural Festival has different committees such as the Publicity and Sponsorship Team, the Designing Team and Stage Committee which help to develop inter-personal skills and organize events at a huge scale. To ensure that the students become good individuals they are encouraged to join the NSS group where they organize activities like Street Plays, Medical Camps, Blood Donation Camps and Awareness Camps, Teaching under privileged children and cleaning the locality.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

### 6.1.2 The institution practices decentralization and participative management

#### Response:

#### Purpose:

“We at SHREE L. R. TIWARI COLLEGE OF ENGINEERING, shall dedicate and strive hard to continuously achieve academic excellence in the field of engineering through objective and innovative teaching methods, consistent updating of faculties, welfare and quality improvement of the faculty and a system of continual process improvement.”

#### Scope:

SLRTCE, since its inception has been imparting quality technical education. The institution believes in promoting a culture of decentralized governance system.

#### For example:

The department activities are decided by the respective head of the department and responsibilities are distributed among the staff members.

#### Best Practices:

The timetable, subject allocation, purchase and maintenance of equipment and consumables, organizing guest lectures and workshops etc are decided by the department heads.

**The Responsibilities of the council are:**

**Chairperson:**

The Chairperson guides the general administration of the college on a day-to-day basis towards the achievement of the Vision and Mission of the College.

**Principal:**

Principal is the head of both the academic and administrative bodies including IQAC. He plans and coordinates all the academic and administrative activities.

Principal is the governing Member Secretary of the Governing Council of the college. He also:

- Monitors progress of all the academic activities
- Implements university guidelines in the institution
- Takes care of the fulfilment of all the curricular requirements
- Heads the Interviewing Committee for faculty recruitment.
- Takes care of students, faculty and staff welfare, their career, higher studies etc.

**Administrative Officer:**

Administrative Officer looks after the administrative aspects of the college including

- admissions
- maintenance of the student related records, certificates and university correspondence
- maintenance of services such as infrastructure, canteen, transport, etc.
- liaison with AICTE, Mumbai university and other Statutory bodies

**Accounts Officer:**

Accounts Officer maintains vouchers, records and accounts and looks after

- collection of cash, fees , fees follow up and salaries paid
- revenue and capital budgeting and monitoring

**Head of the Department:**

- Designs the Vision, Mission, Programme Educational Objectives (PEOs), Programme Outcomes (POs) of the department in consultation with the Department Advisory Board.
- Makes the subject allotment based on the specialization and experience of the faculty members.
- Periodically reviews all academic activities and sends a copy of the review to the Principal.
- Coordinates with the Training and Placement Cell in arranging In-plant training, Guest Lectures, Industrial Visits.

**Faculty Members:**

- The college has various committees to manage different institutional activities which involve faculties of all the departments. Some of them committees are as follows:

**1)Discipline and welfare committee 2) Staff Development Committee 3)Research and Development cell 4)website committee 5) Student Care cell 6)Career Counselling committee 7) Cultural Committee 8) Sports Committee 9)Alumni committee 10)Feedback Committee 11) Time-Table Committee 12) Parents interaction committee**

- Discharge all the duties and responsibilities assigned by the Principal, Dean and Head of the department from time to time.
- Counsel the students, identify their difficulties in learning and guide them to improve their performance.
- Pursue higher studies, equip themselves with the latest development in the chosen field.
- Actively associate with all departmental and institutional activities like arranging guest lectures, industrial visits, seminars, workshops etc..

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

**6.2 Strategy Development and Deployment**

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

**Response:**

The institute works on its quality policy which states that:

“We, at **SHREE L. R. TIWARI COLLEGE OF ENGINEERING**, shall dedicate and strive had to continuously achieve academic excellence in the field of Engineering and to produce the most competent Engineers through objective & innovative teaching methods, consistent updation of facilities, welfare & quality improvement of the faculty & a system of continual process improvement.”

With the growing technical innovations, it is necessary to develop the institute to match the speed. Thus it is required to improve quality of technical education system. Hence the institute has to develop strategic plans and systems to be implemented over the next five years. The institute has developed its IQAC system. The policies decided by IQAC will be helpful to achieve the goals for improving quality of the technical education.

The institute has future development plans as shown in the attached document.

The institute does have the priority of accreditation by NAAC and NBA. The institute is planning to establish memorandum of understanding with national and international Universities/Institutes as well as research organizations in the field of engineering.

The institute has prepared its own academic calendar for year which gives information about various Curricular and co-curricular. Also, each department has developed its separate academic calendar which gives details about activities such as seminars, industrial visits, expert lectures, workshops etc.

The institute is ready to provide the high quality technical education in the growing field of technology. The institute maintains standard of education by developing the faculty members by providing facilities to upgrade their knowledge and skills. For example the institute is a Remote Centre for IIT workshops which can be attended by the staff members to enhance their subject knowledge. The institute organises various programs for faculty development. Each department has started self development programs in which every faculty comes with new technical concept and shares knowledge with others. The activities conducted in the institute are monitored by the Principal. The various performance parameters such as Academic performance, University results, regularity and punctuality, active participation in curricular and co-curricular activities organized at institute and department levels are monitored.

The management makes provisions of annual budget to fulfil the requirements for the academic session and for development of the institute.

File Description	Document
Any additional information	<a href="#">View Document</a>
Strategic Plan and deployment documents on the website	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

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

#### Response:

The Institute implements a top-down decision making process where the Governing Body, Rahul Education Society, includes the Hon'ble Chairman, Shri Lallan Tiwari, the Secretary, Jt. Secretary. The Governing Body looks into all aspects of the College including its finance, educational and research functions and arrangements. LMC directly interacts with the Management and the Principal for the smooth functioning of the institute. At the Departmental level, the HOD forms the various committees for smooth conduction of various activities. HOD is responsible for the proper functioning of the department as per the policies decided by the college authority and will be reporting to the Principal. Registrar is responsible for the administration related work. Every department/section makes their plans (budget & academic calendar) based on the key requirements.

#### Governing Body:

The Governing Body of the Institute meets once or twice in a year to discuss the college development process and quality enhancement procedures. The Governing Body is responsible for the operation of all aspects of the College including its finance, educational and research functions and arrangements.

**College policy:** We, at **SHREE L. R. TIWARI COLLEGE OF ENGINEERING**, shall dedicate and strive hard to continuously achieve academic excellence in the field of Engineering and to produce the most competent Engineers through objective & innovative teaching methods, consistent updation of facilities, welfare & quality improvement of the faculty & a system of continual process improvement.

**Function of various bodies:** Different committees work together for the fulfilment of college mission and vision. Roles and responsibilities of each committee are clearly specified.

**Grievance Redressal Mechanism:** The college follows a particular system for Grievance Redressal. It is

under direct supervision of the Principal. The grievance Redressal cell of the Institute was formed on 20th June 2016. Any complaints lodged by a student are handled by the Cell.

The Institute's organizational structure is attached in the document.

Other committees such as finance committee, IQAC, Library Committee, placement committee, Anti-ragging committee, Grievance committee work under the guidance of the Director. Discussions and decisions are communicated to the faculty, staff and students.

The institute has the Governing Body, Director, Principal, HODs, Office Superintendent, Teaching Staff, Non-teaching Staff, In-charges of Laboratories to ensure smooth functioning of daily activities and promote a healthy and effective teaching-learning process. The exam cell is responsible for preparing exam schedules, conducting examinations smoothly, preparing the duty chart for invigilation, allotting seats in the Exam Hall etc. The Training Placement Officer conducts training sessions for the students to help them face interviews and clear all rounds easily. The library in charge looks after the purchases of books and accessioning and supervises day to day work of library.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

### 6.2.3 Implementation of e-governance in areas of operation

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

- A. All 5 of the above
- B. Any 4 of the above
- C. Any 3 of the above
- D. Any 2 of the above

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

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

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

##### **Response:**

##### **Grievance Committee**

The grievance redressal cell of the college was formed on 20th June 2016. The Cell primarily addresses any issues faced by students. The cell regularly meets senior staff members and takes appropriate steps to address the grievance.

##### **Grievance 1: Regarding Availability of drinking water**

**Action:** Water cooler cum filter is installed on 1st, 2nd, 4th floor and in canteen.

##### **Grievance 2: Regarding installation of sanitary napkin vending Machine.**

**Action:** Vending Machine for sanitary napkins is installed in first floor Washroom.

##### **Grievance 3: Regarding Cleanliness in the canteen.**

**Action:** Canteen in-charge and canteen committee was called for discussion of quality of food and hygiene in the college canteen. After thorough discussion it was resolved that in-charge would improve the quality of food provided, variety in food items would be available and care will be taken for general cleanliness and hygiene in the canteen.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

### 6.3 Faculty Empowerment Strategies

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

##### Response:

Welfare Schemes for Teaching and Non-Teaching Staff are as given below:

- Remuneration for exam work.
- The Institute provides NOC, salary certificate and other necessary documents for availing loans from banks.
- The teaching faculty members are given experience certificate, salary certificate, NOC etc. on request.
- Class 4th staff is provided uniforms.
- Compensatory off is given to the staff if they work on holidays.
- Separate seating arrangement with table, chair, and cupboard is available to every staff member.
- Each department is provided with PCs and printers.
- Safe drinking water, proper parking facility, specialized security and guards are engaged by the institute.
- Canteen facility is available in the institute.
- One month summer vacations for the faculty members
- On-duty facility for pursuing Ph.D. and to attend training programmes
- Provision for Provident fund
- Medical leave is granted to the staff those have completed their probation period.
- College has installed automatic sanitary napkin machine for ladies staff and students.
- First-aid facilities and rest room facilities are provided

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

#### 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: 2.4

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

2017-18	2016-17	2015-16	2014-15	2013-14
3	3	5	2	0

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

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

**Response:** 3.6

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

2017-18	2016-17	2015-16	2014-15	2013-14
5	2	4	3	4

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

**6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years**

**Response:** 51.57

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

2017-18	2016-17	2015-16	2014-15	2013-14
64	63	24	51	48

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

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

#### Response:

SLRTCE Institute seeks to evaluate performance of employees and hone their skills, improve the performance, and motivate them to teach effectively.

Performance appraisal of teaching and Non- teaching staff is based on following dimensions:

- **Comprehensive knowledge in the teaching field:** It decides the permanent desire to learn more about their own area of interest (subjects) and their professional field.
- **Teacher-student communication:** There should be good relation between teacher and students. Teachers should have qualities such as good behaviour, honesty, objectivity, modesty, impartiality, not being involved in scandals with the students and help students when they require.
- **Presentation skills:** Good speaking ability, use of expressions, vocal modulation and appropriate words. Teacher should have the capacity to maintain the interest of the students and should able keep them attentive.
- **Passion for teaching:** Enthusiasm and love for teaching makes the lectures effective.
- **Class preparation and management:** The ability of the staff to deliver subject knowledge in a simple and effective manner. The use of real time examples in lectures increases the interest and knowledge about the subject.
- **Student examination:** Teachers should evaluate the performance considering objectivity, correctness and attaining education objectives.
- **Quality of teaching materials:** The teachers must include reference books, current ongoing research on subject, and practical implication of subject in preparing the teaching material with the consideration of grading important aspects.
- **Research and scientific productivity:** Teachers interest in research and scientific productivity. Integration of new discovery about subject in lectures apart from syllabus sure the quality knowledge.
- **Administrative skills:** Active implication in college development work, in logistics inside the department/institute to attain institution's objectives.
- **Reputation:** Good behaviour and personality, good grasp of the knowledge.

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

## 6.4 Financial Management and Resource Mobilization

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

#### Response:

The financial audit is done at regular intervals by the internal and external agency. The latest audit was conducted for financial year ended on 31st March 2017 and there were no major findings.

#### Internal Audit:

The internal audits are conducted regularly by account department. The records of all purchases right from the enquiry, quotation, purchase order, payment done after all the approvals are maintained. The payments both for purchases and cash expenses are scrutinized carefully before payment. The routine checking of the salaries paid, voucher entries and other accounting ledgers are done.

#### External Audit:

The financial audit is done at regular intervals by the external agency. External financial Audit is conducted as per guidelines of institute of Chartered Accountant of India (ICAI). This audit is done after the end of a financial year by the Chartered Accountant and his staff. The audit of the financial year 2016-17 was conducted and the trial copy of audited reports has received in the month of September 2017. There is no audit objection till date. No irregularities were found and all accounting procedures were complied with audit norms.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

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

**Response: 2.06**

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

2017-18	2016-17	2015-16	2014-15	2013-14
0.45	0.45	0.51	0.35	0.30

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

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

The institution always manages the effective and efficient use of available financial resources for the infrastructural development and teaching learning process. Money spent for the development is properly auditable by the Chartered Accountant.

The available resources in the institute are used optimally by lending premises for Entrance examinations like MH- CET, Gate and other government exams.

Institute has secured additional funds by the following:

1. Conduction of Job Fairs.
2. Providing venue for conduct of exams or other training activities.
3. Conduct of Management Development Program.
4. Money received from Directorate of Technical Education (DTE) for assigning centre as Facilitation Centre (FC - set up for document verification).

The fund so generated is put in institute account and are utilized for the institute.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

## 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:

The institute has developed IQAC in July 2016. The IQAC works with the help of Boards of Studies, Faculty Boards and Academic Review Committees. The regular weekly meeting of IQAC with the Principal and HoDs facilitates the review and corrective action from time to time.

A Committee of IQAC and HODs meets every week to review the activities of the institute where review of teaching and learning is discussed prominently. Academic Council reviews the academic programs regularly. It operates through Board of Studies of the various departments. The weaknesses in the pedagogical processes which are brought to the attention of IQAC are discussed with the departments leading to convening to take action and propose the required changes.

The IQAC of the College is endowed with the responsibility of spreading quality culture with a host of quality policies, strategies and programs aimed at creating quality consciousness among all the stakeholders. The IQAC of the College provides suggestions for the

- Conduct of Orientation Programs
- Implementation of quality strategies
- Conduct Comprehensive Academic Audit
- Collection of Feedback of various and varied stakeholders
- Organization of lectures and interaction programs on quality issues, strategies, tools and methods.

The IQAC shall focus essentially on improvement of the student's experience, which is ensured by delivering the academic and other services to the students. Such activities include:

- Prepare and regularly update departmental documents for efficient and effective academic delivery and evaluation
- Verify the academic outcomes of the various programs and courses.
- Audit the examination processes to ensure fair and meaningful evaluation
- Analyse the student feedback on individual course teaching to understand student experience
- Provide regular training sessions for improvement of faculty and staff competence.
- Maintain discipline according to the norms prescribed in the handbook and inculcate good values among students.
- Facilitate student's participation in co-curricular activities
- Facilitate and monitor operations of professional clubs and welfare associations in the dent community
- Identify and assist students with different categories of need

The IQAC will also collect and review the performance of the departments and faculty members through the following procedure:

- A meeting with the faculty of each department every month in which the faculty presents the work done in the previous month such as- Syllabus coverage , Student attendance ,Seminars held, Field trips organized, Academic activities organized, Co-curricular activities organized, Placement activities, Research presentations including publications
- Reviewing the minutes of meeting of Student committees of the various departments. These faculty-student meeting will be held twice every semester. An audit of conduct of classes is also conducted on a regular basis. Based on the needs, whenever required, the principal appoints committees to ensure that the required work is done in time and follows all guidelines of the institute.

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

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

#### Response:

The institute regularly does academic audits under the supervision of the Academic Council through the Board of Studies at departmental level. As per guidelines laid out by NAAC, a formal IQAC has been constituted and further audits will be done by this committee. The Academic Audit in the institute is a continuous process which triggers various actions and measures at various levels.

Example 1: Student feedback is taken once in every semester to assess the performance of faculty, curriculum and infrastructure in a specific format. The institute has incorporated system to get student feedback more efficiently. In response to the feedback, HOD interacts with concerned faculty to discuss the shortcomings. In case of any curriculum related feedback the issue is discussed in departmental meeting and subsequently in the board of studies.

Example 2: Examination and evaluation-University examination are conducted under the supervision of head of Exam Cell. The answer sheets are evaluated by experienced and approved faculties. After evaluation, external faculty is appointed for moderation. The results are then send to university for approval. Every year result analysis is done to check the performance and actions are taken for improving results

Some of the other important activities are:

- Faculties video lectures are uploaded in **library e-contents** for students reference.
- Continuous follow ups of attendance of the students
- Grading assignments and practical write-ups regularly
- Learning outcomes are measure from the course exit forms
- Conduct of class committee meetings for students performance analysis
- Display of monthly defaulter's list to track students attendance
- Monthly review of academic processes and progress by HODs

- Systematically maintaining staff & student database

File Description	Document
Any additional information	<a href="#">View Document</a>
Link for Additional Information	<a href="#">View Document</a>

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

**Response:** 0.8

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

2017-18	2016-17	2015-16	2014-15	2013-14
3	1	0	0	0

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
IQAC link	<a href="#">View Document</a>

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

1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements
2. Academic Administrative Audit (AAA) and initiation of follow up action
3. Participation in NIRF
4. ISO Certification
5. NBA or any other quality audit

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

**Response:** C. Any 2 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>
Annual reports of institution	<a href="#">View Document</a>

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

**Response:**

The Institution has established IQAC cell in July 2016. In the present academic and administrative system, the Institution has developed mechanism of its own for the quality assurance. Teachers judge the academic quality and ability of the students through oral, written tests and conduct mentoring classes for the weak students. The administrative system also looks after the quality education in the institution.

The different committees set up by the Institution are always aware of the administrative needs. The Examination, Timetable, Raw-ink, Disciplinary, Sports, technical and Cultural Committees, are all constituted and equipped for quality assurance of the institution's administration. The academic and administrative systems in the institution have been quite effective to the enhancement of quality education. The administrative quality is maintained by the effective decentralization. Principal conducts meeting regularly and ensures the quality of teaching. The administration in the institution is maintained by the involvement of the staff at every level.

SLRTCE started Incubation centre '**Vyavasay Abhyas Niketan**' in September 2017 aims at providing a conducive environment for developing entrepreneurial skills. Incubation centres simulate (incubate) start-ups, giving young entrepreneurs a chance to shape their business before facing the real world.

The institute has initiated E-cell from October 2017 for developing student's ability to get success in an ever changing and increasingly competitive global marketplace.

The institution has regular feedback system for faculties and actions are taken regarding quality control on the basis of the feedback. Also, internal examinations are conducted twice in an academic session for the students. For assuring the quality performance of the faculty members a number of FDPs are conducted in the organization and also the faculty members are encouraged to participate in external FDPs. The institution ensures its effective administration by allocating and distributing the responsibilities among the staff according to their area of interest.

The teachers of every department have a profile on Course Networking and share instructions related to academic activities, assignments, quizzes, question bank etc. The students find easy access to all documents related to the subject and the Course becomes more organized and effective with good use of technology.

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

NAAC

## Criterion 7 - Institutional Values and Best Practices

### 7.1 Institutional Values and Social Responsibilities

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

**Response:** 2

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

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	0	0	0

File Description	Document
Report of the event	<a href="#">View Document</a>
List of gender equity promotion programs organized by the institution	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 7.1.2

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

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

**Response:**

The Institution shows gender sensitivity in providing facilities such as:

##### A) Safety and Security:

**i. Anti-sexual harassment committee:** An anti-sexual harassment committee is formed in the college to safeguard the freedom of girl students. The Committee has two senior faculty members who ensure equal rights and duties for all students. The main objective of the committee is to spread awareness about women safety and security in college as well as outside college. The committee organizes seminars and awareness programs to educate students regularly and make them aware about women safety. Students also actively participate in such programs and get encouraged to spread the message of gender fairness in the society.

**ii. Security system:** The institute is well concerned about the safety of the students. Around four to five security guards are deputed at the main gate of college. Outsiders are not allowed to enter the college

without any reason. If they have, they are given visitor IDs. If a staff member has to leave campus for any work such as bank work etc. a gate pass is issued to make not of 'out time' and 'in time'. CC TV Cameras are present in all corridors which is closely monitored for any sort of unwanted behavior.

**iii. ID cards are made mandatory:** It is mandatory for the faculty and students to wear Identity cards in campus. ID cards are also compulsory during college events and examinations. If a student is found not wearing the ID card, he/she is not allowed to stay on campus and the discipline committee is notified. Even visitors are issued a Visitor's Pass to enter the college campus.

**B) Counseling:** The College has a careful mentoring system. Staff regularly meet students and counsel them and try to handle their psychological complexities. Approximately 15:1 ratio is maintained for students and mentors.

**C) Common Room:** A separate common room is allocated for the comfort of girl students. Hygiene is maintained by the house-keeping staff and girls are trained in bathroom etiquette and personal hygiene.

### 7.1.3 Alternate Energy initiatives such as:

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

**Response:** 0

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

7.1.3.2 Total annual power requirement (in KWH)

Response: 602

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	<a href="#">View Document</a>

### 7.1.4 Percentage of annual lighting power requirements met through LED bulbs

**Response:** 85.07

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 302

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 355

File Description	Document
Details of lighting power requirements met through LED bulbs	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

#### 7.1.5 Waste Management steps including:

- Solid waste management
- Liquid waste management
- E-waste management

#### Response:

**Solid waste management:** Dustbins are kept in all the rooms and the labs. Supporting staff regularly clear the dustbins. Paper solid waste such as files, journals, waste paper etc. is given to vendors for recycling. A compost pit system is used to decompose the waste food from canteen. Compost yielded from the system is used as fertilizer for the plants.

**E-waste management:** Third and final year students submit their project to their respective departments. Next year Students are motivated to extend the project done by earlier batches so all the electronics components of earlier projects are utilized. The components of the projects are also made available for students. Electronic systems such as computer, mouse, hard disk, CRO, kits etc are exchanged with a vendor.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

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

#### Response:

Rain water harvesting helps collect rain water and use it in several ways except potable use. The roof top rain-water harvesting method is adopted well without any wastage of water in our college. This stored/collected water is used for garden irrigation. The trees and lawns are planned to be maintained with this water. Besides this, collected water is also used to wash college buses and for floor cleaning in the college campus. The system is also more developed to use this water in washroom flush. Reprocess of waste water is also used for gardening.

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

### 7.1.7 Green Practices

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

#### Response:

Students, staff using

a) Bicycles: Many students as well as admin and helping staff who live within 2 kms. From the College, come to College on their own bicycle. This helps them stay fit, reach on time and also reduces the general traffic in the area.

b) Public Transport: 80% of staff and students commute by local trains, public transport buses and auto rickshaws as there is a huge number of people living in the Mumbai suburbs. Sharing auto rickshaws and pool cabs are also used for those travelling by the Highway. Also, sharing system for those travelling by train and coming from Mira Road Station is available.

c) Pedestrian Friendly Roads: The roads are wide and open with well controlled traffic and easy travel route. There is hardly any traffic congestion and the new pavements due to new constructions around the area serve as a safe pathway for the pedestrians.

**Plastic free campus:** Instead of plastic, steel plates are used in the canteen to minimize the use of plastic and make environment pollution free. For tea/ coffee, paper cups are used. We provide plastic free awareness through our NSS group. Staff and students also avoid plastic bags.

**Paperless office:** In the institute, mostly communication is done through emails .We communicate all important notices and circulars through email. Each staff member has their own email id in the domain provided by the college. Departmental sharing of documents is done through Google Drive. Documents such as class attendance, defaulter's list, internal assessment sheets, end semester assessment sheets, are available in Google Drive. The administrative office also shares their important documents through Google Drive. All the computers in college are connected through LAN so exchange of data through LAN is also possible.

**Green landscaping with trees and plants:**

There are around 100 trees planted in the campus surroundings:

- Azadirachtaindica – (Neem)
- Saracaasoca – (Ashoka)
- Flamboyant tree ( Gulmahor)
- Ficusreligiosa-(Peepal tree)
- Magniferaindica– (Mango)

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

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

**Response:** 0.2

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

2017-18	2016-17	2015-16	2014-15	2013-14
4.01	2.24	0	0	0

File Description	Document
Details of expenditure on green initiatives and waste management during the last five years	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

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

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students

**8. Any other similar facility (Specify)****A. 7 and more of the above****B. At least 6 of the above****C. At least 4 of the above****D. At least 2 of the above****Response:** C. At least 4 of the above

File Description	Document
Resources available in the institution for Divyangjan	<a href="#">View Document</a>
link to photos and videos of facilities for Divyangjan	<a href="#">View Document</a>

**7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years****Response:** 8

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

2017-18	2016-17	2015-16	2014-15	2013-14
0	3	0	3	2

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

**7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)****Response:** 22

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

2017-18	2016-17	2015-16	2014-15	2013-14
10	6	1	2	3

File Description	Document
Report of the event	<a href="#">View Document</a>

**7.1.12**

**Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff**

**Response:** Yes

File Description	Document
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	<a href="#">View Document</a>

**7.1.13 Display of core values in the institution and on its website**

**Response:** Yes

File Description	Document
Provide URL of website that displays core values	<a href="#">View Document</a>

**7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations**

**Response:** Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**7.1.15 The institution offers a course on Human Values and professional ethics**

**Response:** Yes

File Description	Document
Any additional information	<a href="#">View Document</a>
Provide link to Courses on Human Values and professional ethics on Institutional website	<a href="#">View Document</a>

**7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions**

**Response:** Yes

File Description	Document
Provide URL of supporting documents to prove institution functions as per professional code	<a href="#">View Document</a>

**7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years**

**Response:** 3

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	0	1	1	0

File Description	Document
List of activities conducted for promotion of universal values	<a href="#">View Document</a>
Any additional information	<a href="#">View Document</a>

**7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities**

**Response:**

The College gives great importance to celebration of National Festivals by instilling in students the reverence for the National Flag and Anthem. So on Independence Day (15th August), Republic Day (26th

January) and Maharashtra Day (1st May), Flag Hoisting is compulsorily done by the NSS Team and faculty.

Our College organizes two days on occasion of birth anniversary. The events are Teacher's day & Engineer's day. On Teacher's day, Student coordinators handle the entire event and made it memorable for all the teachers. A special video showing memories of entire year was prepared by the students for the teachers. Students arranged fun games such as Musical Chair, Antakshari etc. for the teachers. Overall the event was fun filled and enjoyed by all the faculties and students. It was concluded by the thanksgiving speech delivered by the students.

Engineer's Day is celebrated every year on September 15, to commemorate Mokshagundam Visvesvaraya, who was born on that day. This day is thus celebrated as National Engineer's Day across the country. Mokshagundam Visvesvaraya was awarded with the Bharat Ratna and to honor him and value his contributions, this day is celebrated in all technical and engineering institutes.

Many activities were organized at department level which included quiz competition and debate completion. All students participated enthusiastically. The event overall was great success. Teachers were felicitated as a token of respect.

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

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

##### **Response:**

The principal empowers staff and students to deal with honesty and integrity in the teaching -learning process. The Anti-ragging committee and Discipline Committee are always vigilant and ensure the safety of students. No sort of bullying or harassment is allowed in the campus. Students are encouraged to maintain a cooperative and collaborative approach and develop good inter-personal relationships. Attendance and punctuality are given prime importance. Students are engaged in honest and ethical preparation for examinations, academic work and submissions of assignments. The training and placement cell organizes training for students with relation to interviews, stress management, time management, and conflict management. Besides, mock meetings/interviews are also conducted department wise to ensure optimum performance of students in company interviews. The staff set an example through lawful use of resources and proper e-mail etiquette. Seminars are arranged on gender equity, safety, professional development etc. and activities by NSS and Student's Council help build awareness towards society contribution, hygiene, environment protection and life values. Our core values of Service, Leadership, Reliability, Trust, Commitment and Excellence are not just displayed but also practiced and imparted on a daily basis among staff and students.

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

## 7.2 Best Practices

### 7.2.1 Describe at least two institutional best practices (as per NAAC Format)

#### Response:

#### Best Practices I – Training Cell Program to enhance employability skills

**Goal:** With advent of changes in technology the scope of engineering education has become broader. So the expectations from engineering graduates are also very high. At SLRTCE, a need was identified to start a “Training Cell Program” that would help the students to build a personality equipped with exquisite technical and soft skills. With this in mind, a “TCP” is being implemented from the year 2016-17. The aim of the program is to enhance the quality of the students by empowering them with skills those are globally at par.

#### Objectives:

- Enhance the employability opportunity.
- Prepare students for entrepreneurship and
- Prepare students for higher education in India and abroad.

#### The Context:

- Integration into the curriculum: Training incorporated into the curriculum to help students for preparation and self - evaluation in technical and soft skills.
- Expert faculty: A good blend of classroom and hands on training provided by expert faculty.
- Assessment: Training need and outcome assessed on the basis of test pattern preferred by many well-known industries globally.

**The Practice:** The duration of program is 120 hours that spread over 3 semesters. It is to be undertaken by the student from the start of the Third year of engineering.

**Evidence of success:** Implementation of TCP has shown remarkable effect on placement activity. Also, students are able to crack professional examinations conducted by industries, government agencies, civil services etc. This unique activity is appreciated by industries and alumni.

#### Problems Encountered and Resources Required:

The program is required to be conducted in parallel with regular academics. Therefore, extra sessions from industry experts are normally arranged on weekends. Convincing the students to attend such sessions is really a challenging task. Industry experts and corporate trainers charge heavily to the students for professional training. Extra budgetary provisions to conduct such training become essential or students pay on their own otherwise. As students are already paying heavy tuition fees to the institute, they are reluctant

to participate for such training.

However, it is necessary to give training to the students to cope up with industrial requirements and make them ready for placement. Introduction of TCP have solved majority of these problems with minimum expenditure and removed unnecessary financial burden on the students. This has also motivated the students to attend sessions even on weekends and holidays.

The institutional resources required to conduct TCP are as follows:

- Budgetary requirement for experts
- Classroom with LCD and multimedia facility
- Software required for presentation, analysis etc.
- Internet facility to conduct online test
- IT infrastructure for hands on training
- Library with necessary e-resources, journals, and books.

### **Best Practices – II Unified Learning Process**

#### **Objectives:**

- To know the diversity in the talents of students and encourage them to share it with others.
- To arrange interactive skill oriented training programs for transfer of skills.
- To encourage the student chapters and mobilize the teams with competitive

spirit.

- To motivate their professional skills.

#### **The context**

As we are observing that nowadays technology is growing very fast and that too in multiple directions. It is difficult for an individual to keep themselves updated in every field. So, SLRTCE came up with the concept of sharing the knowledge with each other without restrictions of the age or the stream. An informal as well as friendly environment has been created from the year 2016 to perform a “Unify Learning Process”. Initially it was started among faculty members of the same department. The response to this program was so excellent that the student also shown their interest to participate in it.

Then another version released of this program where students decided to conduct seminars for other batches of students without calling any expert from outside. This became a trend and was followed by other branches also.

Soon the mechanical students initiated the CESA chapter, and started a workshop of manufacturing smart cars, racing cars etc. The spirit continuous from batches to batches, as that becomes something very passionate and learning in a very different way of learning with fun with friends, and practical based, open for experimentation.

### **The Practice:**

- Finding the latest/current technology:

Students in the core group work out about the latest or popular technologies required in various fields. They also figure out the time frame, and content of training.

- Identify talents of students:

The student committee has to find out the interest and talents of various students of the institution. They arrange all logistics, venue, and all other necessary arrangements.

- Interaction between the students and transfer of knowledge and skills:

Core committee students interact among each other and with trainee students. They also have to encourage students from all diversified domains to share their knowledge to others. Their encouragement is in a way that sometimes senior students also find interest in attending the seminar given by a junior speaker.

- Smooth conduct:

For the sake of smooth conduct of the activity various faculty members as well as HOD keep observation and provide monitoring. So the gravity of the training session and the competition spirit is automatically maintained.

- Feedback

The feedback given by student's trainees proves to be encouraging the next succeeding activity.

### **Evidence of Success**

- Awareness of current market situation with respect to new technologies:

After this activity interdisciplinary students became aware of current technologies in each other's fields.

- Development of skills and improved knowledge:

The knowledge provided in these activities are useful for them for their Professional life ahead.

**Problems Encountered and Resources Required:**

- Allocation of time for performing these skill development activities becomes difficult sometimes because of regular classes and practical. But managing on working Saturdays or after class timetable, things could work out efficiently.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

**7.3 Institutional Distinctiveness****7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust****Response:**

The College is striving hard to give thrust to the Digital India Program in terms of ICT and Technology Education. In this regard, courses from Microsoft and Oracle have been promoted, so that students can achieve International standards in education. Many students have got certificates from for their performance at competitive exams. The college is established as remote center to IITB NMEICT (RC 1306) and conducts workshops organized by IIT, nationwide, on various technology. The teaching staff thus get exposure to collaboration and interaction with faculty from other institutes in states across India. Recently, the staff underwent rigorous training for 3 months at IIT Bombay X - FDP 101x Foundation Program in 'ICT for Education'. Fifty One staff members from SLRTCE have cleared FDP101x and enrolled for IIT Bombay X - FDP201x - 'Pedagogy for Online and Blended Teaching-Learning Process'. The teachers participate continuously in various other Faculty Development Programmes throughout the year. Keeping in line with the vision of the institute to provide high quality technical education, the institute has introduced the use of tools such as course networking, blogs, and flip classroom in all institutional activities. The Course Networking model followed in each Department not only supports course management, but also generates new learning opportunities with social networking as the foundation for learning. The various tools for creating new posts, broadcasting live videos, creating quizzes, polls and other interactive tests with any kind of media attachment helps students develop a deep understanding through comprehension and reflection.

Reward points are given to learners as they participate on the social learning platform, share knowledge, solve assignments and build a good network. It is mandatory for each staff member to create a course and ensure that all students join the course at the beginning of each semester. The teacher uploads all learning material, assignments, question banks and quizzes throughout the semester. This provides easy and quick access to each student. Even those who are on medical leave and cannot come to college can access the data and work towards the completion of the course. The teacher follows up with any student who has not responded to assignments/quizzes uploaded. An extensive notification system provides notification messages via smart phone, email and the website. Personalized social networking offers the capability of creating learning groups and interest groups. Course pairing provides dynamic networking among learners from courses within different institutions and countries. Students are encouraged to start their own blogs and enhance their creative and technical writing skills and develop a broad network. A Facebook Page

called [www.facebook.com/slrtceblogger](http://www.facebook.com/slrtceblogger) has been created by students for so that any student from any year/branch can share their blogs. Links to staff profiles on Course networking and Staff WordPress pages as well as student and alumni blog links are put up on the college website.

File Description	Document
Link for Additional Information	<a href="#">View Document</a>

NAAC

## 5. CONCLUSION

---

### Additional Information :

Shree L. R. Tiwari College of Engineering has gained valuable recognition in recent years as Rahul Education Society has gone a long way in assisting the needy and catering to their all-round growth. The Chairman of our Society, Shri Lallan Tiwari's, discreet contributions for the same, is truly worth a mention.

A humble recipient of the 'UDAAN 2013 Award' for Excellence in Education, by Navbharat Times, Mr. Lallan Tiwari's magnanimous efforts truly proclaim that he is 'inspiration' personified!

The Institute has featured in many Press Reports such as:

- Connecting Society with Culture in Navbharat Times on 16 October 2018
- Contribution of Rahul Education Society towards backward Areas in NavBharat Times in January 2014

The Institute has several Awards to its merit:

- Certificate of Excellence in recognition of valuable contribution towards 'A Survey on Perceptions about Effective Policing' at Mira Road East in October 2018
- Excellence in Education Award to Rahul Education Society in Maharashtra Times on 15 April 2014
- Education Excellence Award as 'Most Promising Upcoming Private Engineering College in Thane', Maharashtra in March 2014
- Hr Club Certificate of Merit to the college for being 3rd best Institution in India in 2013

Detailed information in the link <https://www.slrctce.in/institute-recognition/#1539753991132-bc6763bd-8216>

### Concluding Remarks :

Team work, dedication, selfless service, personal and professional growth, is what every teacher at SLRTCE works towards. With a blend of these virtues and strong support of the Principal and Management, each Department is vibrant with activity, progress and goal-attainment being the obvious outcome.

The Department Heads are strong and dynamic teachers who are actively engaged in conducting regular meetings with the staff and student representatives of each class. They plan and organize various student centric programmes in every semester, so that students develop creative and instinctive capacities and learn to tackle challenges in various aspects. As part of their professional duty and personal commitment, the Heads of Departments arrange parent-teacher meets to find out the strength and weaknesses and assure the maximum growth of each student in their department right up to the Final year. Department programmes include sessions in soft skills and business communication, mock interviews, aptitude tests and project work.

The Administrative and Managerial Teams keep a constant watch and fulfill all requirements in terms of

infrastructure, material, stationery, equipment and helping staff. The flow of communication is both ways, with the management being open to suggestions from the staff, and not enforcing their own principles and rules throughout. The staff in turn, remember their responsibilities and put extreme efforts and dedication in completing tasks, teaching the syllabus, organizing activities, interacting with the students and reporting to the Department Heads.

Students are taught by example and special qualities such as respect to elders, duty towards society, valuing people and things, learning from failure, concern for the environment and democratic leadership are nurtured in every student so that they grow to be good individuals above all and contribute to building a peaceful and clean society.

SLRTCE promises a bright future for its students in terms of success at the University examinations as well as worthy internships and final placements in the corporate sector at the appropriate time.

## 6.ANNEXURE

### 1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.3	<p>Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years</p> <p>1.1.3.1. Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>4</td> <td>9</td> <td>5</td> <td>0</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>1</td> <td>2</td> <td>3</td> <td>0</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	14	4	9	5	0	2017-18	2016-17	2015-16	2014-15	2013-14	6	1	2	3	0
2017-18	2016-17	2015-16	2014-15	2013-14																	
14	4	9	5	0																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
6	1	2	3	0																	
1.2.1	<p>Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years</p> <p>1.2.1.1. How many new courses are introduced within the last five years</p> <p>Answer before DVV Verification : 416</p> <p>Answer after DVV Verification: 345</p>																				
3.3.4	<p>Number of research papers per teacher in the Journals notified on UGC website during the last five years</p> <p>3.3.4.1. Number of research papers in the Journals notified on UGC website during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>147</td> <td>59</td> <td>38</td> <td>40</td> <td>12</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>147</td> <td>59</td> <td>38</td> <td>40</td> <td>12</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	147	59	38	40	12	2017-18	2016-17	2015-16	2014-15	2013-14	147	59	38	40	12
2017-18	2016-17	2015-16	2014-15	2013-14																	
147	59	38	40	12																	
2017-18	2016-17	2015-16	2014-15	2013-14																	
147	59	38	40	12																	
3.5.2	<p>Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)</p> <p>3.5.2.1. Number of functional MoUs with institutions of national, international importance, other</p>																				

universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
8	9	13	13	9

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
2	0	1	0	0

Remark : HEI input edited as per clarification response. MOU's having academic benefit will be counted.

4.2.6 Percentage per day usage of library by teachers and students

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

Answer before DVV Verification : 240

Answer after DVV Verification: 20

Remark : Approximately as Per uploaded documents.

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

Answer before DVV Verification : 35-50 MBPS

Answer After DVV Verification: 20-35 MBPS

Remark : Edited by referring Clarification response.

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
18	23	5	0	1

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
4	15	5	0	1

Remark : Edited as per clarification response.

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

## 5.2.2.1. Number of outgoing students progressing to higher education

Answer before DVV Verification : 30

Answer after DVV Verification: 9

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

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

Answer before DVV Verification:

2017-18	2016-17	2015-16	2014-15	2013-14
4	1	0	0	0

Answer After DVV Verification :

2017-18	2016-17	2015-16	2014-15	2013-14
3	1	0	0	0

## 6.5.4 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQR) to NAAC; Feedback collected, analysed and used for improvements
2. Academic Administrative Audit (AAA) and initiation of follow up action
3. Participation in NIRF
4. ISO Certification
5. NBA or any other quality audit

Answer before DVV Verification : B. Any 3 of the above

Answer After DVV Verification: C. Any 2 of the above

**2.Extended Profile Deviations**

ID	Extended Questions										
1.2	Total Expenditure excluding salary year-wise during the last five years ( INR in Lakhs)										
	Answer before DVV Verification:										
	<table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td>602.02</td> <td>653.88</td> <td>730.77</td> <td>611.21</td> <td>605.77</td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14	602.02	653.88	730.77	611.21	605.77
2017-18	2016-17	2015-16	2014-15	2013-14							
602.02	653.88	730.77	611.21	605.77							
	Answer After DVV Verification:										
	<table border="1"> <thead> <tr> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2017-18	2016-17	2015-16	2014-15	2013-14					
2017-18	2016-17	2015-16	2014-15	2013-14							

602.02	653.88	605.78	611.21	515.46
--------	--------	--------	--------	--------

NAAC