YEARLY STATUS REPORT - 2020-2021

Part A

Data of the Institution

1.Name of the Institution ST.MARTIN'S ENGINEERING COLLEGE

- Name of the Head of the institution Dr. P. SANTOSH KUMAR PATRA

- Designation Principal

- Does the institution function from its own campus? Yes

- Phone No. of the Principal 9000444578

- Alternate phone No. 7997267788

- Mobile No. (Principal) 9000444578

- Registered e-mail ID (Principal) principal@smec.ac.in

- Address St.Martin's Engineering College Sy. No.98 & 100,Dhulapally Road, Dhulapally, Near Kompally, Secunderabad-500100 Telangana, India.

- City/Town SECUNDERABAD

- State/UT Telangana

- Pin Code 500100

2.Institutional status

- Autonomous Status (Provide the date of conferment of Autonomy) 26/09/2019

- Type of Institution Co-education

- Location **Urban**

- Financial Status **Self-financing**

- Name of the IQAC Co-ordinator/Director **Dr.S.V.S.Rama Krishnam Raju**
- Phone No. **9703050004**
- Mobile No: **8309141486**
- IQAC e-mail ID **deanacademics@smec.ac.in**

3.Website address (Web link of the AQAR (Previous Academic Year) https://www.smec.ac.in/Home/Iqac

4.Was the Academic Calendar prepared for that year? **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: https://www.smec.ac.in//Examinationnotifications/academicCalendarau

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**A+**	**3.26**	**2019**	**01/05/2019**	**30/04/2024**

6.Date of Establishment of IQAC **14/08/2013**

7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
St. Martin's Engineering College	UGC PARAMARSH	UGC	11/09/2019	2812000
St. Martin's Engineering College	MSME INCUBATION CENTER	MSME	30/04/2020	10000000
St. Martin's Engineering College	GHMC 3RD PARTY CONSULTANCY	Greater Hyderabad Municipal Corporation (GHMC)	20/03/2019	4440000000
St. Martin's Engineering College	3RD PARTY QUALITY CONTROL AND QUALITY ASSURANCE OF WORKS AND TESTING OF MATERIALS	HMWSSB	01/03/2021	15000000000
St. Martin's Engineering College, Dept of CSE	AICTE SPONSPORED STTP	AICTE	11/03/2021	358333
St. Martin's Engineering College, Dept. of ECE	AICTE SPONSPORED STTP	AICTE	11/03/2021	382000
St. Martin's Engineering College, Dept of H & S	ATAL FDP	ATAL	25/08/2020	93000
St. Martin's Engineering College, Dept of Mechanical	AICTE-ISTE Induction Program	AICTE-ISTE	20/07/2020	279000

8.Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI

[View File](#)

9.No. of IQAC meetings held during the year   **3**

- Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?

Yes

- If No, please upload the minutes of the meeting(s) and Action Taken Report

No File Uploaded

10.Did IQAC receive funding from any funding agency to support its activities during the year?   **No**

- If yes, mention the amount

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

1. National Board of Accreditation (NBA) for all Undergraduate Courses (UG) 2. Achieved National Institute Ranking Framework (NIRF) 3. Achieved Atal Ranking of Institutions on Innovation Achievements (ARIIA) 4. Achieved 5 star rating in Institution's Innovation Council (IIC) 5. UGC Paramarsh 6. Greater Hyderabad Municipal Corporation (GHMC) Third Party Consultancy 7. MOU's with Various Industries 8. Hyderabad Metropolitan Water Supply and Sewerage Board (HMWSSB) Consultancy

12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
Conduction of Energy Audit	Conducted during 19th August 2020 to 20st August 2020 and the substantial savings energy have been recorded with the implementation of Energy Conservation Methods.
Conduction of Green Audit	Conducted during 3rd Sept 2020 to 4th Sept 2020. The percentage of green belt in the institute is increased by planting additional trees. This activity is inline with the 'Harithaharam' movement launched by Telangana State Government.
Sensitizing faculty to Research	The number of Research Proposals/Projects and Consultancies has been remarkably increased.

13.Was the AQAR placed before the statutory body?   **Yes**

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
External Peer Team	07/12/2021

14.Was the institutional data submitted to AISHE ?   **Yes**

- Year

Part A

Data of the Institution

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• Designation	Principal
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College		Corporation (GHMC)			
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- Name of the statutory body

Name of the statutory body	Date of meeting(s)
External Peer Team	07/12/2021

14.Was the institutional data submitted to AISHE ?	**Yes**

- Year

Year	Date of Submission
01/12/2021	24/12/2021

15.Multidisciplinary / interdisciplinary

16.Academic bank of credits (ABC):
17.Skill development:
18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)
19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):
20.Distance education/online education:

Extended Profile

1.Programme

1.1   **8**

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	No File Uploaded

2.Student

2.1   **3880**

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	No File Uploaded

2.2   **943**

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	No File Uploaded

2.3   **3866**

Number of students who appeared for the examinations
conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	No File Uploaded

3.Academic

3.1   **382**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	No File Uploaded

3.2   **317**

Number of full-time teachers during the year:

Extended Profile

1.Programme

1.1	**8**
Number of programmes offered during the year:	

File Description	Documents
Institutional Data in Prescribed Format	No File Uploaded

2.Student

2.1	**3880**
Total number of students during the year:	

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3.Academic

3.1	**382**
Number of courses in all programmes during the year:	

File Description	Documents
Institutional Data in Prescribed Format	No File Uploaded

3.2 Number of full-time teachers during the year:	317

File Description	Documents
Institutional Data in Prescribed Format	No File Uploaded

3.3 Number of sanctioned posts for the year:	252

4.Institution

4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	648
4.2 Total number of Classrooms and Seminar halls	71
4.3 Total number of computers on campus for academic purposes	1440
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	1204.8

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

St. Martin's Engineering College (SMEC) was established in 2002 by St. Martin's Children's Education Society. SMEC offers 10 B.Tech & 1 MBA Course. Such as B.Tech in CSE(240), CSE- AI & ML (60), , IT (180), ECE (240), EEE (60), MECHANICAL (180), CIVIL (120)and MBA (120) with an intake of 1080. SMEC is a prestigious Autonomous (UGC-Govt of India) engineering college and first choice by aspiring students and parents. Since

inception, SMEC with a motto of providing Quality Education in a highly disciplined and conducive environment with International Standards. It is a beautiful, unique & ineffable place which exudes positive energy, spiritual epiphany, sense of serendipity and produces intellectual, cultural, social giants & academic leaders.

The faculty is a blend of highly qualified academicians young and experienced who cater to both traditional and modern teaching techniques. Apart from the education system, the students are also encouraged in sports and co-curricular activities. The institute focuses to build and maintain excellent rapport with the top management of various organizations and industries and forge collaborative industry-academia alliances. On the whole, SMEC is the key for the success of technological engineering education.

SMEC stands a perfect platform in terms of infrastructure, facilities and in providing high quality education. E-Learning is the key to becoming successful and SMEC always stands for it. The college has a high-quality digital library that provides access for NPTEL videos, a wide variety of national and international research papers and MOOCS. SMEC always gives importance to training the students to meet the existing industrial demands. Guest Lectures /Seminars/Workshops have been organized by inviting resource persons from Industries and Institutions. Industrial visits are regularly organized to enhance the practical knowledge of the students and keep them abreast with the latest technological applications in various industries so that their employability skills are sharpened.

Encouraging budding entrepreneurs is one of the prominent aspects in SMEC. Entrepreneurship is one of the prominent importance given in SMEC. The students are encouraged towards entrepreneurship and are trained accordingly. By establishing their own company, the student not only contributes to nation building but also gives employment opportunities to many others. The students of SMEC are facilitated in plant training, internships and other industrial related activities so that the students have complete awareness about business activities before becoming an entrepreneur.

Curriculum is developed and implemented in relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes

offered by SMEC.

College Vision and Mission

Vision

To become an institute of excellence by creating high quality and innovating engineering and management professionals who would take the world into their stride through sustainable growth in technology and management.

Mission

To instill moral values and promote technological, intellectual and ethical environment to the students with an in-depth and exceptional education that makes them employment ready as per the emerging trends in industry and to invoke the desire of innovation as a process of life-long learning for a successful career in engineering and management.

Program Outcomes Common to all Branches given by National Board of Accreditation (NBA)

S.No

Program Outcomes

PO1.

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Common to all Branches

PO3.

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes

that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4.

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6.

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7.

Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8.

Ethics: Apply ethical principles and commit to professional integrity and responsibilities and norms of the engineering practice.

PO9.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings

PO10.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11.

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments

PO12.

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Civil

S.No.

Program Educational Objectives

PEO1

Impart fundamental education to students in civil engineering core & allied subjects to develop them as full-fledged civil engineers through strong communication and entrepreneurial skills for the society.

PEO2

To train the students so that they can work and contribute to the infrastructure development projects being undertaken by Government, public sector and private sector companies.

PEO3

Continue their education programs in engineering & interdisciplinary areas to emerge as researchers, experts, educators & entrepreneurs for professional development and life-long learning.

S.No.

Program Specific Outcomes

PSO1

An ability of a graduate to use their knowledge in the analysis and design of civil infrastructure projects with the subjects like structural, transportation, soil, environmental and water resources engineering etc

PSO2

An ability of a graduate to use execute the projects with the knowledge of managerial principals and financial implication with the subjects like Construction management, Estimation and Costing,Survey,MEFA etc

PSO3

An ability of a graduate to Amalgate technical, co-curricular and soft skills training so that students can face and succeed in competitive examinations like GATE, GRE, TOFEL, GMAT etc.

EEE

S.No

Program Educational Objectives

PEO1

To produce graduates with strong foundation in basic sciences, mathematics and prepare them with technical competency with emphasis on team work in the electrical engineering areas for both private and public sectors.

PEO2

To be able to apply managerial qualities and technical comperance to solve challenging assignments.

PEO3

To create capability to plan, estimate and execute live engineering projects and also new product development.

PEO4

To produce graduates with good foundation in multidisciplinary fields and train the students for identifying, analyzing and creating current engineering techniques as well as skills and tools to develop novel product solutions and simulation for the real life problems.

S.No

Program Specific Outcomes

PSO1

To be able to apply modern techniques and tools to solve the problems related to electrical and electronic applications.

PSO2

To be able to analyse and conduct investigations on complex engineering activities to arrive at valid conclusions.

PSO3

To have expertise on communication on research projects, design documentation and seminars to the knowledgeable engineering community, and also understand the complex problems presented by experts.

ME

S.No

Program Educational Objectives

PEO1

A fundamental understanding of the basic engineering sciences, develop mathematical and analytical skills required for Mechanical Engineering.

PEO2

Ability to provide Product engineering designs that are based on sound principles considering functionality, aesthetics, safety, cost effectiveness and sustainability.

PEO3

Capability to function ethically as mechanical engineers and exhibit good competency in their work culture.

PEO4

Impetus to take up lifelong learning by being active members of professional bodies like SAE, ASME etc. Obtain professional licenses and to undertake higher studies and research activities that will ultimately benefit mankind.

S.No

Program Specific Outcomes

PSO1

Knowledgeable in deep fundamentals of core mechanical engineering subjects which enable them to innovate, design, maintain and manufacture any mechanical products with confidence.

PSO2

Capability to utilize the latest mechanical engineering software tools in their chosen design and development problems of the real world applications.

PSO3

Possesses an aptitude to serve the society with zeal and enthusiasm in the field of mechanical engineering in any capacity keeping in mind the sustainable growth.

ECE

S.No

Program Educational Objectives

PEO1

To prepare the students to fit into any industry, associated with designing, developing and manufacture of hardware and software products based on state of art technologies, make them competent for pursuing higher studies in the field of Electronics and Communication Engineering.

PEO2

To enrich the students with sound mathematical, scientific and engineering fundamentals required to solve engineering problems and also to pursue higher studies.

PEO3

To develop analytical skills in the students for design validation.

PEO4

To continuously strive to create an environment in the department that enriches the students with qualities like professionalism, communication and team work skills, ethical values, and sense of responsibility towards the Society.

S.No

Program Specific Outcomes

PSO1

Professional Capabilities : Capability to use their knowledge in the design of Electronics and communication system using techniques like signal processing and technologies such as VLSI and Embedded systems.

PSO2

Analytical skills :Capability to analyze a given system and/or design for its specification based performance and to devise any design changes for performance improvement, if need be.

PSO3

Responsible Professionalism:Capability to work within the constraints as obtained in a workplace and/or within a team, with an objective to further the goals of the employer, establishment or self owned one.

CSE

S.No

Program Educational Objectives

PEO1

To apply engineering processes and practices to software and hardware systems skillfully and efficiently.

PEO2

Ability to understand and analyze engineering issues in a broader prospective with ethical responsibility.

PEO3

To prepare students to fit into any industry associated with developing and implementation of software products or technologies.

PEO4

To equip the graduates with ability to analyze, design and test the novel products.

S.No

Program Specific Outcomes

PSO1

Proficiency skill : Potential to understand, Implement and conduct research in various sub domains of Computer Science & Engineering.

PSO2

Analytical skills : Capability to apply theoretical knowledge to practical implementation for a quality product.

PSO3

Successful Career and Entrepreneurship: Preparedness to adopt new technology with unprecedented ideas to be a successful entrepreneur besides a zeal towards higher studies.

IT

S.No.

Program Educational Objectives

PEO1

To possess the fundamental knowledge, theoretical background and technical skills to lead a successful career to meet the diversified needs of industry, academia.

PEO2

Exhibit intellectual analysis for problem solving to create software products with effective coordination and communication skills to meet industry needs.

PEO3

Exhibit professionalism, ethics, social awareness and agility for continuous improvement.

S.No.

Program Specific Outcomes

PSO1

The ability to understand, analyze and develop computer programs in the areas related to algorithms, application development, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying

complexity.

PSO2

The ability to apply standard practices and strategies in software project development using emerging technologies to deliver a quality product for software industry needs.

PSO3

The ability to handle advanced programming languages, environments, and platforms in creating innovative career paths to be an entrepreneur, and a zest for higher studies.

MBA

S.No

Program Educational Objectives (PEOs):

PEO1

Impart fundamental education to students in Business Management core & allied subjects to develop them as full-fledged management knowledge through strong communication and entrepreneurial skills for the society.

PEO2

To train the students so that they can work and contribute to the management development projects being undertaken by Government, private or any other sector companies.

PEO3

Continue their education programs in business Management & interdisciplinary areas to emerge as researchers, experts, educators & entrepreneurs for professional development and life-long learning.

PEO4

To perform their/duties efficiently, effectively and ethically at individual level and also at group level in a multidisciplinary team, contributing to the welfare of the society.

S.No

  Program Specific Outcome

PSO1

Core Courses: To work successfully as a Management Graduate with requisite skill set in the field of Marketing, Finance and Human resource domain. To Transmit knowledge gained from the Summer Internship Project (eight weeks) in the industry as per the requirement of the concerned organization.

PSO2

Specialized Courses: Specialized Courses: To educate students with proficiency in the specific area of specialization in Business Administration and help them to show their competency in understanding of Marketing, Finance and Human resources and how to make an effective work force in the industry with the required Skills.

PSO3

Professional Management Training: Recognize the importance of professional development by pursuing post graduate studies, competitive examinations, certification courses that offer challenging and rewarding careers in management.

File Description	Documents
Upload additional information, if any	[View File](#)
Link for additional information	https://www.smec.ac.in//Departmentssidebar/computerPeo

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

7

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	[View File](#)
Details of syllabus revision during the year	[View File](#)
Any additional information	**No File Uploaded**

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

22

File Description	Documents
Curriculum / Syllabus of such courses	[View File](#)
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	[View File](#)
MoUs with relevant organizations for these courses, if any	[View File](#)
Any additional information	**No File Uploaded**

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

67

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	[View File](#)
Any additional information	**No File Uploaded**
Institutional data in prescribed format (Data Template)	[View File](#)

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

73

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	[View File](#)
Any additional information	**No File Uploaded**
List of Add on /Certificate programs (Data Template)	[View File](#)

1.3 - Curriculum Enrichment

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

In order to combine the cross cutting issues like gender sensitization, Environment Sustainability, Human Values and Professional Ethics, at SMEC, students are nurtured to develop other attributes, like gender equity and sustainability at academics.

The institution is following JNTUH curriculum. The efforts made by the Institution to integrate the cross cutting issues are:

- Gender Sensitization
- Environment Sustainability
- Human Values and Professional Ethics

Gender Sensitization:

The institution has a responsibility to build gender sensitivity among the students and staff. The value of gender equity needs to be integrated in the learning process through curriculum. Besides, the JNTUH has introduced a course 'Gender Sensitization' in the curriculum of B.Tech education. Through which students can know the equality of men and women in society. Equal opportunities are given to both the genders in terms of admissions, employment, training programs, sports activities etc., so that gender issues do not arise. Management encourages all the faculty and students to participate in events focusing on women empowerment. Women empowerment cell also take part in the conduction of special lectures on gender related topics on various occasions. Girls and boys participate in various co-curricular activities, group discussions and technical quiz programs. Workshops and seminars related to women's empowerment and sexual harassment are being conducted in college. College supports women faculty and students to become member in forums and encourages them to participate in events

focusing on women empowerment and promoting leadership qualities in women

Environment Sustainability:

At present, we are living in a well-developed technological world. Technology has constructive results as well as adverse impact on our environment. There is an immense need to create awareness among the stakeholders regarding the need to sustain and preserve environment and make technology go hand in hand with the ecology rather than hamper it. As per JNTUH curriculum, the institution conducts quiz and debates during the National Science Day, and organises programs like Swachh Bharat and Haritha Haram for improving the awareness of environment. At SMEC, we also donate thousands of plants to the people. Students are taken for industrial visits at water treatment plants and other such places that can educate them well on environmental issues. Some awareness programs are also initiated by NSS with extensively carried out activities to support environmental protection and ecological preservation. Eco Club conducts Awareness programs such as 'say no to plastic', 'walk more drive less' and 'save earth'.

Human Values and Professional Ethics:

We are undoubtedly living in a developed world. Modern technologies are affecting human values and professional ethics. Hence JNTUH has introduced a subject titled 'Human Values and Professional Ethics' for B.Tech students, so that they can imbibe and practice human values. Professional ethics is defined as the personal and corporate rules that govern behavior within the context of a particular profession. In this direction, the instituon conducts various activities and programs to build value systems, professional ethics, good citizenry skills and the sense of being honest and practice equity, equality and nurture respect for each other.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	**No File Uploaded**

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

15

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	**No File Uploaded**
Any additional information	**No File Uploaded**

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

2120

File Description	Documents
List of students enrolled	View File
Any additional information	**No File Uploaded**

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

936

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	**No File Uploaded**

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://smec.ac.in//Academics/anlysis
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	**No File Uploaded**
Any additional information	**No File Uploaded**

1.4.2 - The feedback system of the Institution comprises the following

A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	https://smec.ac.in//Academics/anlysis
Any additional information	**No File Uploaded**

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

986

File Description	Documents
Any additional information	**No File Uploaded**
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

620

File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	[View File](#)

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Assessment of learning levels

The students are divided into two categories – slow learners and advanced learners. The criterion for categorizing into slow learners and Advanced Learners is given below:

Entry level

- **The college organizes a 21-day Induction Program for the new incoming batch students every year.**
- **The program helps the students to get familiar with the Institution, curricular and co-curricular activities, facilities, rules and regulations of the University and Institution.**
- **Training on communication skills, personality development, time management and motivational sessions are also given.**
- **A special test is conducted for the first year students after admission and categorized as under:**
- **Slow Learners: Less than 20 marks out of 50 marks.**
- **Advanced Learners: Above 20 out of 50 marks.**

II/III/IV Year Students

As per the Mid (Internal) exam conducted for the II/III/IV year students, they are categorized as under:

- **Slow Learners: Less than 14 marks out of 25 marks (As per JNTUH) and Less than 16 Marks out of 30 marks (Autonomous)**
- **Advanced Learners: Above 14 marks out of 25 marks(As per JNTUH) Above 16 Marks out of 30 marks (Autonomous)**
- **Special Programs for Slow learners:**
- **After identifying the slow learners, the list of slow learners is sent to the Principal for approval to conduct the following programs beyond college hours.**

- Remedial classes are conducted beyond the college hours (i.e. 3:50 pm to 4:30 pm)
- Learning material prepared by subject handling faculty members is verified by the expert committee and uploaded in the portal regularly for student's reference.
- Weekly Test /Slip Test
- Classroom Interactions
- Group Discussion
- Brainstorming Sessions
- We practice an 'Education Triangle' which makes a relationship that exists between parents, teachers and students. This partnership must be strong, focused and positive to support the student learning system.
- Frequent meetings are organized with the parents of the slow learners. The respective faculty members and the HoD discusses on their performance.

Special Programs for Advanced Learners:

- Advanced Learners are identified on the basis of internal assessment
- Students are encouraged to be members of professional bodies like IEI, IEEE, ISTE, CSI, ACM, IETE, ISTE, SAE, and IWE under which various technical events are organized
- Various clubs/Technical associations like STAC, BETA, ECTA, TAIT, and META are formed for conducting various activities.
- Aptitude and soft skills training to crack the interviews for placements
- Students are encouraged to take up micro projects at the entry level and Innovative projects at higher levels under Incubation center and also evaluate them by organizing Project Expo.
- Some of the innovative thoughts of the latest technology such as:
  - 3D printer
  - Compressed Air Car
  - Drone fertilizer in Agriculture Student Kiosk system
  - Library Kiosk Power Spy Software Air Car
  - Seed Sowing Machine
  - Agriculture Field Motor Control using GSM
  - Fully Automated Metro Train
  - Linear Induction Motor
  - Theoretical Analysis of Electromagnetic Model of a Transformer for Detection of Faults by using Frequency Response Analysis

- ○ **Micro Chef**
- **Bright and diligent students are motivated and inspired to get University ranks.**
- **Students are encouraged to take up competitive exams like GATE, GRE, TOEFL, IELTS, CAT, PGCET etc.**

Students are also deputed in to various college level committees to enhance their skill and actively participate in the activities

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	[NA](NA)

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/09/2020	**3880**	**317**

File Description	Documents
Upload any additional information	View File

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:

The college focuses on imparting technical knowledge which enhances critical thinking and gives scope for creative imagination among students so that when they grow up they become responsible citizen of the country. The Institute follows the student centric methods that are used for enhancing the learning experiences of students to implement Outcome Based Education (OBE) such as

- **Experiential learning**
- **Participative learning and**
- **Problem solving methodologies**

Experiential Learning:

The students are provided with the following types of learning mechanisms to improve experiential performance

- Additional Lab Experiments / Content Beyond Syllabus

The students are taught to practically test the concepts that they theoretically learnt in the classroom. This enhances their practical knowledge as well as tests the concepts acquired by them. As an affiliated institution the programmes are bound to follow the curriculum set by the university. It is necessary to identify the curricular gaps and take measures to bridge it by supplementing the curriculum with content beyond syllabus. Students are given time slots to do additional experimental work with the assistance of the highly qualified staff.

- Library E-Resources

Library is committed to providing quality service and an excellent collection of materials to support the mission, goals, educational, and research needs of students, staff, faculty, and administration, users and in support of the College's diverse curriculum. A Timetable is allocated in Institution academic calendar for the students to access the library during college hours. Laboratories with Internet Connection permit the students to widen their knowledge and skills. The Online E- Resources such as digital library, E-Journals like IEEE, ASME, ASCE, J-Gate, Delnet are accessible to the students to widen their knowledge and skills via a local IP and public IP.

- Industrial Visits

Two industrial visits per year are planned to provide industrial exposure and hands on experience with practical implementation on the latest technologies which empower the students to meet the industry requirements.

- Student Internships

Students are also encouraged to undergo internships during academic semester breaks in relevant industries. This allows them to gain practical experience of the technology and environment which enhances their career skills

All the class rooms are provided with LCD projectors to make lecture sessions more interactive and easy understanding.

Participative Learning:

The students are allowed to participate in the various activities organized by the institution

- **Placement Related Learning**

Placement training is important for engineering students to enhance their employability skills and achieve good placement in various Industries. To enhance the placement skills, the institution organizes the following activities such as Aptitude classes, Soft skill classes (Group discussion and personality development classes) are included in the regular time table.

- **Technical Activities**

The Institution organizes various technical activities to enhance the learning skills of students

- **Workshops**
- **Seminars Guest lectures**
- **TECHNOSMEC Events**
- **TAM Activities**
- **Session Quiz.**

Problem solving methodologies:

- **Tutorial Classes**

Tutorial hours were included in the academic time table for subjects that include problem solving. During this hour, extra problems from various units and from previous years question paper were solved.

File Description	Documents
Upload any additional information	**No File Uploaded**
Link for additional Information	https://www.smec.ac.in//Library

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Programe Name Numbers of teachers on Roll Numbers of teachers using ICT (LMS, e-Resources) ICT Tools and resources available

Number of ICT enabled classrooms Number of smart class rooms E-resources and techniques used CE 29 29 E-Learning 8 1 Outside Resources 1. Tripod 1.Swayam courses 2. Camera 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1. LCD Projectors 5. Moodles 2. Laptop with Wifi Connections 6.Coursera 3. Computers 7.Udemy 4. IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1. Smart Boards 2.E-resources 2. You Tube Videos 3.Spoken tutorials 3. Podium with Inbuilt PA System 4.e-Notes 4. Internet connectivity 5. Smart board 5. National Digital Library 6. NPTEL LINK 6. Moodles Tools and Software 7. Digital Language Lab 1.Virtual Lab Techniques used 1.Internet connectivity 2.Tripod 3.Camera EEE 17 17 E-Learning 3 1 Outside Resources 1.Tripod 1.Swayam courses 2.Camera 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1.   LCD Projectors 5. Moodles 2.   Laptop with Wifi Connections 6.Coursera 3. Computers 7.Udemy 4.   IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1.   Smart Boards 2.E-resources 2.   You Tube Videos 3.Spoken tutorials 3.   Podium with Inbuilt PA System 4.e-Notes 4.   Internet connectivity 5. Smart board 5. National Digital Library 6. NPTEL LINK 6.   Moodles Tools and Software 7.   Digital Language Lab 1.Virtual Lab Techniques used 1.Internet connectivity 2.Tripod 3.Camera ME 41 41 E-Learning 9 1 Outside Resources 1. Tripod 2. Camera 1.Swayam courses 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1. LCD Projectors 5. Moodles 2. Laptop with Wifi Connections 6.Coursera 3. Computers 7.Udemy 4. IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1. Smart Boards 2.E-resources 2. You Tube Videos 3.Spoken tutorials 3. Podium with Inbuilt PA System 4.e-Notes 4. Internet connectivity 5. Smart board 5. National Digital Library 6. NPTEL LINK 6. Moodles Tools and Software 7. Digital Language Lab 1.Virtual Lab Techniques used 1.Internet connectivity 2.Tripod 3.Camera ECE 60 60 E-Learning 12 1 Outside Resources 1. Tripod 2. Camera 1.Swayam courses 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1. LCD Projectors 5. Moodles 2. Laptop with Wifi Connections 6.Coursera 3. Computers 7.Udemy 4. IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1. Smart Boards 2.E-resources

2. You Tube Videos 3.Spoken tutorials 3. Podium with Inbuilt PA System 4.e-Notes 4. Internet connectivity 5. Smart board 5. National Digital Library 6. NPTEL LINK 6. Moodles Tools and Software 7. Digital Language Lab 1.Virtual Lab Techniques used 1.Internet connectivity 2.Tripod 3.Camera 4. Microsoft Teams CSE 65 65 E-Learning 12 1 Outside Resources 1. Tripod 2. Camera 1.Swayam courses 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1. LCD Projectors 5. Moodles 2. Laptop with Wifi Connections 6.Coursera 3. Computers 7.Udemy 4. IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1. Smart Boards 2.E-resources 2. You Tube Videos 3.Spoken tutorials 3. Podium with Inbuilt PA System 4.e-Notes 4. Internet connectivity 5. Smart board 5. National Digital Library 6. NPTEL LINK 6. Moodles Tools and Software 7. Digital Language Lab 1.Virtual Lab 2. Microsoft Teams Techniques used 1.Internet connectivity 2.Tripod 3.Camera IT 18 18 E-Learning 3 1 Outside Resources 1. Tripod 2. Camera 1.Swayam courses 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1. LCD Projectors 5. Moodles 2. Laptop with Wifi Connections 6.Coursera 3. Computers 7.Udemy 4. IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1. Smart Boards 2.E-resources 2. You Tube Videos 3.Spoken tutorials 3. Podium with Inbuilt PA System 4.e-Notes 4. Internet connectivity 5. Smart board 5. National Digital Library 6. NPTEL LINK 6. Moodles Tools and Software 7. Digital Language Lab 1.Virtual Lab Techniques used 1.Internet connectivity 2.Tripod 3.Camera S&H 62 62 E-Learning 18 1 Outside Resources 1.Tripod 1.Swayam courses 2.Camera 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1.   LCD Projectors 5. Moodles 2.   Laptop with Wifi Connections 6.Coursera 3. Computers 7.Udemy 4.   IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1.   Smart Boards 2.E-resources 2.   You Tube Videos 3.Spoken tutorials 3.   Podium with Inbuilt PA System 4.e-Notes 4.   Internet connectivity 5. Smart board 5. National Digital Library 6. NPTEL LINK 6.   Moodles Tools and Software 7.   Digital Language Lab 1.Virtual Lab Techniques used 1.Internet connectivity 2.Tripod 3.Camera MBA 62 62 E-Learning 4 1 Outside Resources 1.Tripod 1.Swayam courses 2.Camera 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors

4.Online Audio Video Lectures 1.   LCD Projectors 5. Moodles
2.   Laptop with Wifi Connections 6.Coursera 3.
Computers 7.Udemy 4.   IRIS Institutional Resources Smart
class rooms with audio visual facility 1.Faculty Video Lectures
1.   Smart Boards 2.E-resources 2.   You Tube Videos
3.Spoken tutorials 3.   Podium with Inbuilt PA System 4.e-
Notes 4.   Internet connectivity 5. Smart board 5.
National Digital Library 6. NPTEL LINK 6.   Moodles Tools and
Software 7.   Digital Language Lab 1.Virtual Lab Techniques
used 1.Internet connectivity 2.Tripod 3.Camera

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://www.smec.ac.in//Facilities/auditoriumSeminarhall
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

204

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	[View File](#)
Circulars with regard to assigning mentors to mentees	No File Uploaded

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Preparation and Adherence of Academic Calendar:

SMEC has a very robust process for the preparation and adherence of the Academic calendar. The institution prepares the academic calendar every year in advance. The coverage of the academic calendar covers the list of examination dates, seminars, conferences, guest lectures, workshops and industrial visits holidays, vacation dates, festivals, etc. The academic calendar provides the total effective working days available in a given semester.

Then based on the calendar, the HOD's in consultation with the Principal prepare the timetable by correlating the working days available and coverage of the curriculum of the subjects. Thus the academic calendar monitors the effective delivery of the program with academic inputs. The calendar is made available to the students before the commencement of classwork. The academic calendar is displayed on all the department notice boards and is made available on the website. The academic activities within the institution are strictly adhering to the calendar events. All the examinations are being conducted as per the Academic Calendar.

Preparation and Adherence of Teaching Plan:

The subject allocation is done by the Principal in consultation with the HOD's and College level timetable coordinator. After the allocation, the concerned faculties prepare Course Outline which is a comprehensive document in the prescribed format before the commencement of the Classwork every semester. The academic plan structure is prepared to adhere the needs of Outcome-Based Education.

The contents of the plan include:

Syllabus & No. of Credits

- COs, POs, PSOs & PEOs
- Course Description Form and Course Assessment Form (OBE Format)
- Session Planner / Syllabus Coverage & Unit Completion Date
- Timetable of the Class & Self
- Student list, Parent and Student Communication Details (Mobile No., Address & E-Mail ID of parents & Students)
- Material to be Ordered Unit Wise
    - a) Class notes - as per SOP (Hard copy & Soft copy) (Note: Minimum 30 papers per Unit)
    - b) Application of Bloom's Taxonomy
    - c) Twenty Objective Bits with Answer
    - d) Two Assignment Questions per Unit along with Sample Assignments
    - e) Three Tutorial Questions per Unit with Answers
    - f) Exam Questions Unit Wise
- Student Seminar Topics
- Massive Open Online Courses (MOOCs)
- Two Micro Projects (I Year) / Mini Projects (II, III & IV

Year)
- **Mid-Term Test Question Papers, Quality and Scheme of Evaluation along with marks**
- **List of Weak Students & Remedial Action**
- **Target for University Result**
- **Activity based Learning**
- **Last Five Years University Question Papers**
- **Student Attendance Register**
- **Content Beyond Syllabus**
- **Eminent Professors Blogs/Websites/MOOCs/NPTEL/Journals & E-Links**
- **List of Text Books used**
- **Pre-Delivery Presentations & Approvals**

The Principal assigns Dean (Academics) to check the progress of each unit of the course and ensure timely and effective completion of the course in the specified time frame with the perfect blend of practical and theoretical inputs. As per the academic calendar specific time will be allotted for completion of each unit in the course. Adherence to the academic plan is followed by the faculty and details are recorded in the Academic Audit Report by the IQAC Coordinator and team periodically on a weekly basis. These audit reports of each program are then submitted to the IQAC for record and documentation. The copies of the same are maintained in the Course files with the Faculty.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

317

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	No File Uploaded
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

39

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	**No File Uploaded**

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

7

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	**No File Uploaded**

2.5 - Evaluation Process and Reforms

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

Nil

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	**No File Uploaded**

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

00

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	No File Uploaded
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Exam Management System

St. Martin's Engineering College has well-defined processes to evaluate the performance of its students through its integrated software platform the SMEC-EMS. SMEC has also adopted the Outcome-Based Education (OBE) philosophy and has been implementing the same in all assessment components, using appropriate revised Bloom's Taxonomy in all the examinations.

SMEC has adopted formative and summative assessments namely:

- Continuous Internal Assessment (CIA)
- End Term Examinations (ET)

Continuous Internal Assessment (CIA)

The Institute follows a pattern of 30 marks for internal evaluation and 70 marks for the final examination. The Internal components comprise Midterm and assignments, micro projects. Two midterm Examinations will be conducted per semester. The avg marks of two midterm examinations in each course is awarded to students.

Examination Process

SMEC has a robust and effective examination in process. The Mid-term examinations are conducted centrally by the examination department for all Programs as per the Academic calendar. As far as the CIA components are concerned, the Faculty members conduct it during the course of the semester. All internal question papers are set by the college faculty by mapping CO's in adherence with Blooms taxonomy and the end Term examination question papers are from the university(JNTUH). When it comes to

Autonomous , the end exam question papers are set by external experts from top most reputed universities and colleges all around the country.

Mid-Term Evaluation

The midterm question paper carries both subjective and objective type question papers. The subjective question paper contains - marks and the objective paper carries – marks. The duration of the examination is 1 hour and 20 minutes.

End Term Evaluation

SMEC Autonomous end exam consists of

The End term examination question paper comprise descriptive questions for 14 marks.

Examination Management System (EMS)

St.Martin's Engineering College (SMEC) is developed its won examination management system called SMEC-EMS.The SMEC-EMS(in collaboration with Bees Software) assists the examinations department in all its operational activities. these activities can be categorized as follows:

Pre-Examination Process

The pre-examination procedures like Time Tables, Preparation of Barcoded answer booklets, Seating Plans, Invigilator duties, D form generation are automated and managed by SMEC- EMS.

Evaluation Process

St.Martin's Engineering College (SMEC) follows online evaluation system. All the evaluation system is unbiased and transparent.

Post Examination Process

The generation of marks memos, Provisional Certificates, and Consolidated Marks Memo is prepared by considering security features. All other related information like evaluation reports, generating hall tickets, transcript printing, attendance reports are integrated into the EMS. The Provisional certificates and the Convocation degree are also being generated by the SMEC-EMS.

Reforms initiated in the Examination processes

- **SMEC has strictly adopted the Outcome-based education (OBE) philosophy**
- **Question paper is thoroughly scrutinized to ensure the standard, spread of the syllabus and mapping of COs, and following BLOOMS taxonomy.**
- **All questions in the Internal and end-term examinations have been mapped to Course Outcomes**
- **Course attainment & Program attainment have been initiated manually but will be integrated with SMEC-EMS in due course of time.**
- **Due to the integration with SMEC-EMS, the evaluation system is unbiased and transparent**
- **To ensure uniformity and integrity SMEC - EMS has been adopted everywhere.**

Positive impact following IT Integration

- **The efforts taken have resulted in the smooth and successful conduction of the examination as per the schedule prepared**
- **Integration of SMEC- EMS has enhanced the quality of functioning of the section and has resulted in unbiased evaluation.**
- **The adoption of OBE and Revised Blooms Taxonomy has resulted in the improvement of the student academic standards both at teaching and evaluation stages.**
- **This has resulted in the mapping of COs with POs effectively**
- **Introduction to an online examination portal has resulted in unbiased and transparency is achieved.**

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	https://www.smec.ac.in//Examinationnotifications/examinationsau

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Preparation and Dissemination of Program Outcomes, Program Specific Outcomes and Course Outcomes

- Outcome Based Education (OBE) is implemented in St.Martin's Engineering College (SMEC) to give emphasis on what is expected from the students when they finish their course in the form of Course Outcomes
- In line with Course Outcomes, Program Specific Outcomes (PSOs) and Program Outcomes (POs) are then attained to measure the performance of the students
- This OBE is mandatory in all regulating bodies like NBA, NAAC and other Accreditation Committees
- A set of Program Outcomes are given by the AICTE to be followed by all the institutions
- Keeping all the Program Outcomes in mind every department prepares its Program Specific Outcomes
- Based on the Program Outcomes and Program Specific Outcomes, the faculty of all departments then prepares the Course Outcomes for all the courses offered by the University.

Procedure for preparation of Program Specific Outcomes and Course Outcomes

- Every Department of the Institution states its Program Specific Outcomes (PSOs) specific to its department with respect to Program Outcomes (POs) given by AICTE
- PSOs are prepared and decided by the Department Advisory Committee along with the Head of the Department
- Course outcomes are direct statements that describe the essential and enduring disciplinary knowledge and abilities that students should possess and the depth of learning that is expected upon completion of a course
- For the same reason a meeting is scheduled in the beginning of the semester wherein Department
- Academic Committee (DAC) decides the course coordinators for various courses and instructs them to prepare five COs of their courses
- The course coordinators then prepare the COs along with the other instructors of the same course in reference with course outcomes specified in the syllabus copy provided by the University
- After which all the COs of all the courses are verified and finalized by the DAC
- Finally, the PSOs and COs are approved by HODs, IQAC and

the Head of the Institution
- After finalization of all the POs, PSOs and COs they are then disseminated to all the students and faculty members

Mechanism for Communicating Program Outcomes, Program Specific Outcomes and Course Outcomes to Teachers and Students

- Every Department of the Institution publishes its Program Specific Outcomes (PSOs) along with the Program Outcomes (POs) given by AICTE and Course Outcomes (COs) of all its courses in the college website (SMEC-Educational Objectives &Outcomes).
- POs and PSOs are displayed in Staff rooms, Offices of Heads of Departments , all the classrooms, corridors and laboratories
- CO is displayed in display boards of laboratories and students are made to write the COs in their class notebooks of the respective course.
- Students and staff are made aware of these through various meetings, classroom teaching, lab experiment, and interaction sessions.
- Program Outcomes (POs) and Program specific Outcomes (PSOs) are discussed in student induction program, to get clear idea of what they are going to learn

The course outcomes are also communicated to students through Internal and Assignment question papers wherein every question is provided with the CO it belongs to Concern

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	NA

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Response:

The procedure for evaluating the attainments of Program Outcomes, Program Specific Outcomes and Course Outcomes

The attainment of Program Outcomes and Program Specific Outcomes is evaluated by taking 80 % of the Direct Assessment and 20 % of the Indirect Assessment. Whereas the Course Outcomes are evaluated based on Direct Assessment only.

Procedure for Attainment through Direct Assessment (80%):

- A meeting is conducted in the individual departments where faculty are requested to map the relation between the Course Outcomes (COs) and Program Outcomes (POs)/Program Specific Outcomes (PSOs) based on the below given conditions: If the concept of CO is matched
- 80% or more with the concept of PO's (or) PSO's, it's mentioned as level 3 (Highly Related)
- In between 60% to 80% with the concept of PO's (or) PSO's, it's mentioned as level 2 (Moderately Related)
- Less than 60% with the concept of PO's (or) PSO's, it's mentioned as level 1 (Slightly Related)

- Direct Assessment Tools:

Internal Assessment (Conducted at Institution Level for 25 marks)-

Internal assessment consists of the following three components:

1.   It contributes 5 marks

2.   It contributes 10 marks

3.   It Contributes 10 Marks

This examination is conducted twice in a semester to assess student's knowledge in the various subjects studied in the respective semester

University Examination (Conducted at University Level for 75 marks):

This examination is conducted at the end of the semester for assessing the student's knowledge in the various subjects that he or she studied during the entire semester

Internal assessment and University Examination results serve as an input for calculating attainments of all the outcomes.

Steps for Calculation of Attainment:

- A threshold is set to assess the students performance based on the result of previous academic year for the same subject (Suppose threshold calculated is 60%)
- Total marks from each tool is calculated (consider Total as R1) Calculate no. of students attempted the exam (Consider it as R2) Calculate Average marks using [Average Marks R3=R1/R2]
- Next find target % of students on or above threshold -(R4=R2*0.60) Find no. of students scored 60% and above (Consider it as R5)
- Finally get actual % of students on or above threshold (R6=(R5/R2)*100) Attainment obtained by- (R7=(R5/R4)*3)
  - If attainment >= 3, level is marked as 3 and
  - If attainment < 3, same value is marked as the obtained attainment
- Now based on the questions mapped to COs calculate the average attainment of each CO and
- Average attainment of all five COs gives the overall CO attainment.
- Course Outcomes we take a weight of average 25% of the internal marks and 75% of the external marks

Procedure for Attainment through Indirect Assessment (20%):

- This indirect assessment contains feedback from various stakeholders such as alumni, parents, students, faculty and employer along with survey.
- Based on the feedback collected in a scale of 5 which is then converted to scale of 3 to match with the Direct Assessment.

The final PO and PSO attainment are calculated by adding 80% of Direct Assessment and 20% of Indirect Assessment.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	[NA](#)

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by

Institution

748

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	[View File]()
Upload any additional information	**No File Uploaded**
Paste link for the annual report	https://www.smec.ac.in//Examinationnotifications/examinations

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://www.smec.ac.in//Academics/iqacsss

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

St. Martin's Engineering College (SMEC) strongly believes and is driven by the adage "a teacher is a perpetual learner". Accordingly, college encourages its teachers and students to carryout research in their respective areas. To succeed in their endeavors, college provides all the necessary infrastructural facilities, financial support and conductive environment to carryout research.

Each department has separate incubation centre for producing startups and commercializing the startups

S. No.

Name of Department

Name of Incubation Centre

1

Electrical and Electronics Engineering

EEE-Tesla Pre-Incubation Unit

2

Information Technology

IT-IOT Pre Incubation Unit

3

Mechanical Engineering

Mech- APJ Abdul Kalam Incubation Center

4

Computer Science and Engineering

CSE- IoT Pre-Incubation Unit

5

Civil Engineering

Civil- Mohrs Pre- Incubation Unit

6

Electronics and Communication Engineering

ECE- Frontline Electronic Engineers incubation Unit

7

Masters of Business Administration

MBA- F.W. Taylor Pre- Incubation Unit

St. Martin's Engineering College inculcated quality of student projects as best practice. All the Departments of SMEC insists

to the students to do their project, from first year in the form of micro project. When students come to the second, third & fourth year, each and every student has to complete mini project. When they enter to fourth year they are instructed to undergo a major project Phase I & II.

All the departments encourage the students to do micro, mini and major projects to enhance their technical skills and practical exposure.

Micro Projects: Micro projects are intend to increase the innovative idea for I year students and improves understanding capability and experience for team represented groups. The ambition is on the one side that members who have been involved in micro projects as members. On the other side, micro project might compliment main projects.

Mini Projects: The Department of SMEC is focusing on mini projects for II & III year students. The objective of the mini project is to allow the students to explore the knowledge and their research ideas.

Major Projects: The final year students are focusing on major projects in I & II semester. The main objective of major project includes the theoretical concepts and practical design and implementation of experiments. They use their analytical skills and innovative ideas as per industry requirements to carry of the project. Many Software/Hardware industries observe students from academic institutions who are good at analytical skills and capable of doing project working in groups with good intra-personal communication skills. A good project work being an essential part of the curriculum of the engineering management student provides an opportunity for them to get them observed in reputed industries.

SMEC has Drillbit Plagarsim checker for analysing the plagarism all UG thesis and also this software is used by the faculty to check the plagarsim of their research articles.

Faculty members are motivated to submit the project proposals at the beginning of every academic year, to render a shape to their innovative idea. All the proposals are scrutinized department wise and feasible proposals are approved by granting requested budget. They are further encouraged to apply for research grants to procure necessary materials and equipment to various funding agencies like UGC, AICTE, DST, SERB etc. The facilities to

conduct the research is continuously procured either through seed money in the name of internal R & D or through funded agencies. The equipment and other facilities to conduct research by faculty of engineering are available in Material testing laboratory (ME), Water Environment and Land center (CE), Tesla Smart applications laboratory (ECE), and Power systems laboratory (EEE). They act as platforms to conduct research activities by the faculty and the students in the form of project works. Efforts are under progress to augment the research facilities further according to the needs of stakeholders. College has a policy to promote research activity in the form of internal R & D and necessary incentives are granted to the entire faculty to pursue Ph.D. It also felicitates faculty who acquires Ph.D. by additional incentives. It also allows faculty to visit industries, research centers, conferences and symposiums, either to enhance their interaction with external world or to know latest trends in technology or to get ideas from them.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	[View File]()
Provide URL of policy document on promotion of research uploaded on the website	https://smec.ac.in//research/research
Any additional information	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

860700

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	**No File Uploaded**
Any additional information	**No File Uploaded**

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

48

File Description	Documents
e-copies of the award letters of the teachers	**No File Uploaded**
List of teachers and details of their international fellowship(s)	View File
Any additional information	**No File Uploaded**

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

32.76

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	**No File Uploaded**

3.2.2 - Number of teachers having research projects during the year

11

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	https://www.smec.ac.in//research/Pconsultancy
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

2

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	**No File Uploaded**
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

6

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://www.smec.ac.in//research/Pconsultancy
Any additional information	**No File Uploaded**

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

Innovation Ecosystem

Science and Engineering Research Board, Government of India,

Government of Telengana, industrialists from Hyderabad, SMEC Faculty and students nurture innovation ecosystems, to systematically cultivate research environments with following functions and facilities. These functions are facilitated by different organs, Incubation centre, Entrepreneurship Development Cell, Startup (Srishti), Intellectual Property Right Cell, forged under R& D cell (Avishkar).

Facilities in SMEC

Software used for research CATIA, Hyper works ANSYS. Metallurgical microscope equipped with microscope camera and metallurgical image analysis software Stand Pro for designing of building, bridges and roads, CAD, Arc GISKeil software for designing and developing embedded system GNU/JDK 1.8,

Netbeans, J2EE, Latex, GNU/Ubuntu Operating Open office, GCC, Filezilla, GNU/Ubuntu Operating System, GCC, Weka, R-language, GNU/Ubuntu Operating System, GCC, Android studio, GNU/Ubuntu Operating System, GCC, Arduino, Raspberry-pi.

R& D Cell

 The Institute has a dedicated Research and Development Cell named as Aavishkar, established in 2013. R & D cell functions with its ally Incubation Center, EDC, IPR Cell, and Start-up with departmental labs. The quality of research publications is maintained using Plagiarism Checker X (Business) software.Total number of Research and consultancy projects in R& D is 32. The research project on "High Temperature Formability of Titanium alloy" sanctioned from Science and Engineering Research Board,

Govt. of India is carried out for developing technology to produce Aeronautical products.

Entrepreneurship Development Cell

Entrepreneurship Development Cell aims for the overall development of the Entrepreneurial skills and abilities among the student fraternity. Awareness program, Seminars, Skill development program has been organized under the Cell. Mr. Varun Kumar, a distinguished alumnus of the College has emerged as an entrepreneur for Food chain restaurants and another alumnus Mr. Rajanikant has established himself as entrepreneur in interior designing.

Start -up (Srishti):

A student of the College by name Mr.Ajay Jacob, of ECE has won the Startup India 2018 competition and got success in the development of a Business Plan and became the founder of FITZFA.

Ms. J.K.Sandhya Kiran faculty of the Civil Engineering Department and the student Ms. D.Roshita has emerged as the runners up in Startup India 2020.

Intellectual Property Right Cell

SMEC has an IPR cell which guards Intellectual property rights of incubates, faculty and students and disseminating the knowledge on IPR by conducting lectures and seminars.

Incubation Centre

The Incubation Centre has well-furnished and well equipped space, high-end PCs, with printer, high bandwidth internet connectivity and dedicated multimedia facilities for remote board meetings. The Institution has two incubation centres, named as Dr.APJ Abdul Kalam Incubation Centre for non-circuitous branches and Charles Babbage Incubation Centre for circuitous branches.

Products developed:

Fabrication of smart wheel chair, and Pneumatic sheet metal cutting machine. Innovation Creation and Transfer of Knowledge to the Society Sanitary Vending Machine got 2nd prize spreading the knowledge in society for Stri Swachhata in National Institute of Rural Development and Panchayati Raj 2020 . Micro Chef got certificate of appreciation, Texa Instruments Innovation Challenge India Design Contest - 2020. Metallic 3D printer was awarded with 2nd prize in Osmania University National Project expo 2020

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.smec.ac.in//research/Icentres

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

`Nil`

File Description	Documents
Report of the events	**No File Uploaded**
List of workshops/seminars conducted during the year	<u>View File</u>
Any additional information	**No File Uploaded**

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	<u>View File</u>
Any additional information	<u>View File</u>

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

`4`

File Description	Documents
URL to the research page on HEI website	https://smec.ac.in//research/research
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	**No File Uploaded**

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

2

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

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

40

File Description	Documents
Upload any additional information	View File
Paste link for additional information	NA

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

128

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	**No File Uploaded**

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

56

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

73.16

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	No File Uploaded
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

1523000

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	[View File](#)
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

St.Martin's Engineering College has student organizations such as NSS, NCC, Street Cause and Efforts for Establishment of Real Freedom (EERF) which works with national and state social organizations such as Street Cause-Hyderabad, Swecha and organized 95 activities.

National Service Scheme (NSS)

The National Service Scheme' Unit of St. Martin's Engineering College organizes Blood donation camp yearly in association with Indian Red Cross Society of Hyderabad and could donate 250-300 Units of Blood. Students could understand the importance of blood donation, coordination skills, inter personal skills and camaraderie with this event.

Every year on 'World Water Day (March 22)' our volunteers are doing Shramdan to clean ponds and wells in nearby villages (Rayalpur, Dabilpur). Due to this event Students could understand the importance of saving water recourses.

Our NSS volunteers are interacting with farmers in nearby communities and explaining them the importance of 'Organic Farming',' Energy Conservation' and 'Seed sowing machines'. Due to these events students could understand how to reduce expenditure in cultivation and importance of technology in

cultivation.

National Cadet Corps (NCC)

National Cadet Corps - Girl students wing of SMEC learns to defend nation from enemy and natural Calamities

Street Cause - SMEC

Street Cause volunteers learn to serve human with charity activities such as Raksha Bandhan, Distribution of clothes, blankets, medicine, books, food and rice bags to the needy people.

Swachh Bharat-Swachh Community: Under Swachh Bharat event, Shramdan in various places of SMEC and Dhulapally village were taken up by different team of students and teachers, promoting mission Swachh Bharat. Due to this event Students could understand the importance of maintaining clean community.

Awareness program on Organ Donation Camp organized by our students. This imparts them the importance of Organ Donation and also improves their presentation skills.

Stem Cells donation camp as a part of Community service by our students created awareness on the importance of Stem Cells in human body and improved event organization skill among students.

Donation of tractor for garbage dispersion and rupees one lakh for Swachhtha and Suraksha in Dhulapally village, imparts students about the importance of Swachh Bharat Mission.

Our Eco Cell organized events 'Distribution of clay idols' on the eve of Ganesh Chathurthi and a Campaign to educate people to avoid plastic bags created awareness among students to use eco friendly products.

Road safety awareness programs were undertaken by organizing a 5K run by our volunteers to reduce accidents, to wear helmet and seat belt. This imparted students a habit of following road safety norms.

Our Woman Empowerment Cell is conducting awareness programs like 'Women Empowerment', 'Menstrual Hygiene' and 'Cervical Cancer', Just A Minute program on Gender issues for girls of government

school. Due to this our students came to know problems being faced by women in the society.

Efforts for Establishment of Real Freedom (EERF)

EERF Volunteers students of SMEC visit regularly Government School, Dhulapally, imparting basics of Computer knowledge, creating technical awareness thus improving their communication skills and contributing to Digital India Vision of our honorable Prime Minister.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.smec.ac.in/commitee/ncc

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

60

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	No File Uploaded
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

71

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

3849

File Description	Documents
Reports of the events	View File
Any additional information	**No File Uploaded**

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

12

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

14

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	**No File Uploaded**

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

SMEC provides adequate facilities as per the regulatory requirements of AICTE and JNTUH. The management has a positive approach towards creation and enhancement of infrastructure of the Institution by allocating funds at the beginning of the

financial year. The college provides the following facilities.

Infrastructure, ICT classrooms and Laboratories:

The Institution is poised on a 17 acre campus with 23968 sq.mts built up area, centrally located in the City of Secunderabad. It has following excellent infrastructure facilities:

Classrooms : The Institution has Seventy One (71) spacious class rooms with proper infrastructure and LCD Projectors, Wifi-LAN.

Smart class rooms : Seven (7) smart classrooms with provision of multimedia learning, Wi-Fi connectivity and internet access to provide major focus on Elearning.

Tutorial rooms : Seventeen (17) tutorial rooms are available for tutorial, special remedial classes for slow learners and backlog students.

Laboratories : The Institution has eighty five (85) well equipped laboratories. Each of them equipped with state of the art laboratory equipment. These labs are also utilized for students to do their projects during and beyond working hours.

Seminar Halls : The Institution has six (6) Seminar Halls. These halls are regularly used for conducting seminars at state and national levels. The students of UG & PG are regularly encouraged for active involvement in paper presentations, group discussions and participation in professional society activities.

Mini seminar halls : Apart from seminar halls, the institution also has three (3)mini seminar halls which serve for the purpose of departmental activities.

Auditorium : A spacious auditorium is located in Dr.A.P.J.Abdul Kalam block with a seating capacity of 1300 and equipped with LCD projector, screen and sound system etc.

Computing Equipment: Total number of computers available in college is 1440. All the classrooms, smart classrooms, seminar halls, mini seminar halls and auditorium are equipped with ICT facilities. All the laboratories are well equipped and maintained according to JNTUH curriculum. Computer laboratories are installed with licensed software as well as open source software.

Library

Apart from the books available in the library, students can also access the online E-resources such as digital library, online journals like DELNET, IEEE, J-GATE, ASME, ASCE are accessible to the students to widen their knowledge and skills.

Digital Library facility.

Internet and Wi-Fi

1000 Mbps dedicated broadband and 70 Mbps leased line Internet facilities. The institution is completely Wi-Fi enabled. The campus is under video surveillance with 340 CC cameras.

Incubation Centers

Incubation Centers aim at training the students in various advanced technologies. Apart from incubation centers, institute has Research & development (R&D),start up and Entrepreneurship development centers (EDC).

Campus Placement and Process Support

St. Martin's Engineering College has an independent Training and Placement wing, committed to provide all possible assistance to the students. It is headed by experienced and qualified Training & Placement officers and also assisted by coordinators from all the departments.

Hostels

SMEC has hostel facility for boys and girls located in college campus. SMEC boys and girls capacity is 250 each which are consrructed seperately.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://smec.ac.in//Facilities/auditorium Seminarhall

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

Sports and Games:

The institution has adequate facilities for quality physical education programmes, which are needed to increase the physical competence, health-related fitness, self-responsibility, and enjoyment.

Indoor and Outdoor Games:

A state-of-the-art Sports Complex is located in the institute called Laxman Reddy Indoor sports arena, with a plinth area of 2,947sq.m which has facilitates for indoor sports. The institution provides facilities for indoor games like Table Tennis, caroms, chess etc and also has a spacious playground for outdoor games like Basketball, Cricket, Football, Handball, Kabaddi, Throw ball, and Volleyball. Athletic Track Space for all field sports events like Javelin Throw, Shot put, Hammer Throw, Discus Throw, Jumps, etc are available. State of art training is provided to students in all these sports and games. Full time qualified trainers to train students in caroms, chess, table tennis, athletics, basketball, cricket and football.

The trained students participate in National/international tournaments. Many students have won medals and awards in national/international tournaments besides inter collegiate and intra-college activities.

On an average 700 students per day utilizes indoor and outdoor sports facilities and gymnasium.

The following Indoor and Outdoor facilities are available in Campus.

Indoor facilities:

1.Chess Boards - 17

2.Caroms Boards-8

3.Gym with Imported equipment

4.Table Tennis Tables-6

5.Yoga Center-1

Outdoor facilities:

1.Cricket -1

2.Volley Ball-3

3.Synthetic floor Basket Ball court-2

4.Hand Ball-1

5.Badminton-1

6.Throw Ball-1

7.Kabaddi-1

8.Kho-Kho-1

9.Long Jump-1

10.Athletic Track-400 meters

11.Football-1

Gymnasium

An exclusive Gymnasium is available for the students and staff at Sports complex. It provides an arena for the body builders and the students who wish to keep their body fit. State of the Art facilities are made available along with the trainers to train the students properly.

Yoga

An exclusive Yoga facility is provided with a dedicated yoga teacher for training both the students and staff. Practicing yoga creates mental clarity and calmness, increases body awareness, relieves chronic stress patterns, relaxes the mind, centers attention, and sharpens concentration. Since 2015 every year on June 21st, the International Day of Yoga is celebrated, in which all the students and staff proactively participate. Best performers are rewarded to encourage active participation and promote wide scale participation of various stakeholders.

Infrastructure for Cultural activities:

The College has adequate facilities for cultural activities

Auditorium.

Amphitheatre & Hippodrome

Vivekananda seminar hall

Auditorium

The Auditorium is located in Dr.A.P.J.Abdul Kalam block. It has a seating capacity of 1300 members and equipped with LCD projector, projector screen and sound system etc.

Amphitheatre & Hippodrome

An open air venue amphitheatre and hippodrome with serene surrounding has been established in SMEC to facilitate students to conduct entertainment performances, cultural activities and sports.

Seminar Hall

Vivekananda Seminar Hall is an eco-friendly structure, constructed with marble flooring. It is a venue ideal for presentations, lectures, workshops and other meetings. It has a seating capacity of 350 members and equipped with LCD projector, projector screen, sound system and white board.

File Description	Documents
Geotagged pictures	[View File](#)
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://smec.ac.in//sports/sports

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

71

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

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

1204.8

File Description	Documents
Upload audited utilization statements	**No File Uploaded**
Details of Expenditure, excluding salary, during the years	View File
Any additional information	**No File Uploaded**

4.2 - Library as a Learning Resource

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

Integrated Library Management System (ILMS) is an application Software that comprises the procedures and Instructions which enable computer systems to do what the user requires.

The following software versions are being used by SMEC:

New Gen Lib Version 3.0.2 : 2007 to till May 2018.

SMEC ILMS Version-6.1 : May 2018 to till date

SMEC ILMS:

SMEC ILMS is In house developed software developed by our internal staff members, which is linked to kiosks Automated machine which helps to issue & return the books.

SMEC ILMS provides acquisition, cataloguing, circulation, and serial control modules.

Acquisition modules is utilized for generating accession

register reports, adding Bulk students'record, updating item lending policy and its status.

Circulation module consists of books issue, return, and reserve options.

Serial Control: Similarly, library barcodes are also generated through this module making cumbersome library work simpler, effective, and time is saving.

Statistical Analysis: SMEC ILMS also provides statistical analysis required for Library Management system such as weekly transitions, most issued items, less issued items, reference books, Books send for binding.

Cataloguing Module: It helps for catalogue books, e-books, articles, reports, serial publications that contain information so vital to institute.

OPAC Module: Library collection can be browsed / searched on Intranet.

Topology: The topography of the Library has 1256 sq. m which includes 451 sq. m. of Reference Section, 800 sq. m. of Reading Room, 5 sq. m. of library with facilities for issue and return desk along with automated kiosks for issue and return of books.

Staff : Dedicated Staff members take care of the Issue desk, reading room section, reference section and digital library.

Book bank Scheme

The library follows the book bank scheme. With this, the students are able to borrow books for the entire semester. Library has facilities such as software and OPAC (Online Public Access Catalogue) which is used by students & faculty for search of books by title/ author name etc. All the work related to issue and return has been computerized.

Digital Library

The library is automated using advanced computer systems. The Digital Library is provided with HP Prolient – 330G6 with 2TB storage.

The following features can be accessed from any computer within

the campus:

Availability of books by subject & by author wise Account information like books taken and due date to return

Fine amount to be paid for books not returned

Links for e-ressources available are

1.NPTEL video lectures http://172.16.11.223/

2.e- journals and e-books

DELNET : http://164.100.247.30/

IEEE : https://ieeexplore.ieee.org/Xplore/home.jsp

J-GATE: https://jgateplus.com/home/

ASME: http://asmedigitalcollection.asme.org/

ASCE: https://ascelibrary.org/journals/all_journals_titles

1.Rare books : http://smec.ac.in//Library/servicesOffered

2.Open Public Access Catalogue (OPAC) http://119.235.48.134/opac/

Besides the College have books for Competitive examinations, Personal Development, and Question Bank facility. Separate staking racks are maintained for Books, Magazines, Journals, and Newspapers. It has subscribed to 9 newspapers, 14 magazines and 6 self development magazines.

Timings

Academic working day : 8:00 AM to 5:00 PM

Vacation period : 9:30 AM to 4:30 PM

Total 8211 number of volumes of books, 97,000 number of e-books, 99 number of titles, 150 number of journals and 27,019 number of e-journals have been added to the library this academic year 2020-21.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://smec.ac.in//Library

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	**No File Uploaded**

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

15

File Description	Documents
Audited statements of accounts	**No File Uploaded**
Any additional information	**No File Uploaded**
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

211

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	**No File Uploaded**

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

St. Marin's Engineering College yearly upgrades the IT infrastructure by replacing the old computers and peripherals depending upon the requirements as per the updating in the JNTUH Curriculum.

Frequency of Update:

A.Y. 2020-21: 350 new computers of Dell Vostro3268 11th Generation computers were purchased

A.Y. 2019-20: 276 new computers of Dell Vostro3268 7th Generation computers were purchased

A.Y. 2018-19: 180 new computers of Dell Vostro3268 7th Generation computers were purchased

A.Y. 2017-18: 100 new computers of Dell Vostro3268 7th Generation computers were purchased and updated, according to university curriculum.

A.Y. 2016-17: 200 new computers Dell vostro3653 6th Generation computers were purchased and the existing functional Computers were updated successfully.

A.Y. 2015-16: 200 new computers of Dell vostro3902 4th Generation computers were purchased. The non functional computers were replaced with HCL Busy Bee systems.

A.Y. 2013-14: 200 new computers of Lenovo intel dual core computers were purchased. The non functional computers were replaced with new computers. As of 2013, the number of computers available in the college are: 931

The total numbers of computers presently available are 1440. All these computers are connected to LAN.

Frequency of Up gradation:

The latest up gradation of the computers in the campus are as follows:

A.Y.2020-21: In July 2020 Processors of 140computers were upgraded from Intel i3 to i5

A.Y.2018-19: In October 2018, Processors of 20 computers were replaced from Intel i3 to i5

A.Y.2017-18: On 16th February 2018, Processors of 20 computers were replaced from Intel i3 to i5at CAD lab in Mechanical department, as per new change in curriculum of university. On 18th April 2018, the RAM capacity of the server system was upgraded from 8GB to 32GB in the server room.

A.Y.2016-17: The computer systems in various departments of the college were upgraded from 2GB RAM to 4GB RAM and 320GB HDD to 500GB HDD.

Internet & Wifi

The augmentation of IT infrastructure is also to keep pace with the changing dynamics of higher education and the technical world. The IT infra details are made available in the SMEC website periodically.

The Campus is provided with 1000 Mbps broadband high-speed internet and the leased line provides 70 Mbps speed.

During the A.Y 2015-16 wi-fi facility is provided in the campus for the benefit of the students and the faculty.

In A.Y 2016-17 the wi-fi cover is extended to the canteen and other student support service locations.

In A Y 2020-21 the wi-fi facility is made available to each corner of the organisation with optimum speed.

The college has more than 20 Wi-Fi hotspots with extenders provided to cover the wireless range throughout the college.

All computers in the campus are connected to the internet as it is essential for the students to work, besides surplus Ethernet ports are provided for laptops or need of internet connectivity.

A separate team with in-house staff is formed to take care of the IT & related needs of the campus such as Software Development, Hardware & Networking, Website designing & hosting, Email solutions, SMS solutions, etc.

Extensive use of ICT resources including development and use of computer-aided teaching/learning materials by its staff and students is ensured in the College.The sonic Firewall has been deployed for handling enhanced load on network and applications, catering to academic and administrative processes, thereby providing a secure campus network. The college provides advance library web broadband office for the arrangement for the use of ICT resources.

Internet Provider : ACT Fiber , D-Vois communication Pvt. Ltd

Available band width : 1000Mbps

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://smec.ac.in//Facilities/auditorium Seminarhall

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
3880	1440

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture

A. All four of the above

Capturing System (LCS) Mixing
equipments and software for editing

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.youtube.com/channel/UCrbL56eWuiXDqT-NGaR7PAQ/videos
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

1204.8

File Description	Documents
Audited statements of accounts	**No File Uploaded**
Upload any additional information	View File

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

In SMEC all the Departments and various functioning units of the college are provided with the required infrastructure facilities like class rooms, faculty rooms, girls waiting halls, laboratories etc. The effective usage of all the facilities is ensured by introducing exclusive hours for sports, extra lab hours, specified hours to visit advanced labs and Central Library perfectly blended in the regular time table itself. Students can avail the facility of yoga training every week. During these slots, concerned class in-charges / faculty members will ensure the presence and utilization of these facilities by the students. A separate computer maintenance team, which handles the departmental requirements, is available 24*7. For every computer centre, a programmer / Technician is recruited and a faculty member is in-charge of the centre

LABORATORY

The laboratories in the college are furnished according to the prescribed statutory rules. Necessary equipment and material is procured to deliver to the students the best standards of education.

Utilization

• With respect to the time table, the students conduct experiments in their assigned labs with assistance and supervision of the lab-in-charges and lab technicians.

• Consumable and non consumable materials registers, are updated periodically.

• Regular cleaning of the machines is done by the support team in the presence of lab technicians. This cleaning is monitored by the lab technician concerned and is recorded in a check list.

Maintenance

Before the commencement of the academic year, a lab audit is conducted and a report on the requirement of new equipment, replacement of the old equipment and modernization of machines/software is prepared along with requirement of consumables, non-consumables as per the university guidelines to conduct experiments. Regular inspection of machines is organized.

In case of breakdown of any equipment, the details of that equipment will be recorded in the breakdown register, duly attested by the HOD pending rectification.

CLASSROOM

A conducive environment plays a pivotal role in the performance of students. Therefore, it becomes extremely necessary to provide them with ananbience that is, comfortable, peaceful and spacious. The college takes necessary steps to make this possible.

Utilization

• Before the commencement of the academic year, based on the intake of students, heads of departments propound the requirement of classrooms to the Principal.

- The classroom allocation is done by the HOD in the concerned department building.

Maintenance

- The benches and windows are cleaned and mopping of the class rooms is done daily.

- In case of any damage to the projector, internet or the audio systems, the class mentor brings it to the notice of the HOD by registering the problem in the breakdown register. The necessary follow up action is done by the department and steps are taken to fix whatever is broken.

SPORTS

A sports committee is created to handle the concerns and issues related to sports. This committee consists of students along with the concerned faculty. A meeting is held on the last Friday of every month to discuss matter. Issues like the following will be discussed in these meetings:

- Financial - Budget preparation, allocation of budget

- Organization - planning, executing and conduct of competition

Procurement process

The college requires sporting gear for all the sports practiced. It follows the given procedure to procure the same:

- A list of the required sports equipment is prepared by the sports department for each academic year separately.

- The formulated requirement proposal is submitted by the committee to the concerned authorities.

- A copy of the same list is also submitted to the principal for further approval from the chairman.

- On approval, a purchase order will be placed to a supplier.

Utilization process

- Students are permitted to play only during the sports hours and after college hours, to practice for any competition.

Separate bus facility is provided for the students who practice after college hours.

• Students are permitted to utilize sports material with prior notice to the Physical Director. They must enter the details of material in the register.

• The concerned authority makes a note on return of the same in the register.

LIBRARY

Procurement of learning resources:

• The librarian recommends the list of learning resources to be procured

• Systematic effort is put into stocking the Library. This is done so by careful identification, evaluation and selection for the students' convenience.

• Any book, journal, online database or any learning resource is added only after the selection process by subject experts.

Procedure of procurement of Books/Reports:

Initiation of Acquisition:

Concerned faculty recommends books to be procured in their respective subjects. Students also request for books based on their requirement. These requirements are endorsed by the concerned faculty member.

Invoice Processing:

All indents made by the faculty are routed through the Principal to the Chairman for approval. The order is made online, by print or via email depending on the convenience of the library and accessibility.

Accessioning:

Entries are made in the bill register at the security point of the college. Bills along with the books are sent to Library. The details of the Invoice and books are made in the Accession Register and accession numbers are given to the books. Files of

bills concerned with the library are maintained by Librarian.

Processing books:

Stamping - Library Stamp is put on the backside of the title page, on secret page and on the last page. Bar Codes and Round labels are pasted on the title page and are laminated with Cello tape.

Circulation Policy:

● One library card are provided to each student

● He/she can borrow one book on each card. Borrowing period is 15 days.

● Renewal is allowed, if there is no demand for the same book, from other readers.

● For late submission of books, cards will be held up for the period of delayed no. of days.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.smec.ac.in//Facilities/auditoriumSeminarhall

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

2618

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	[View File]()
Upload any additional information	**No File Uploaded**

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

264

File Description	Documents
Upload any additional information	**No File Uploaded**
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology   **A. All of the above**

File Description	Documents
Link to Institutional website	NA
Details of capability development and schemes	View File
Any additional information	**No File Uploaded**

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

1591

File Description	Documents
Any additional information	**No File Uploaded**
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines   **A. All of the above**

of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	No File Uploaded

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

708

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	No File Uploaded

5.2.2 - Number of outgoing students progressing to higher education

72

File Description	Documents
Upload supporting data for students/alumni	No File Uploaded
Details of students who went for higher education	View File
Any additional information	No File Uploaded

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

70

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	No File Uploaded

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

42

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

The purpose of the Students Council (SC) is to provide programs, activities and services which serve the co-curricular, cultural, social, recreational and educational interest of students at the Institution. These bodies let the students to share their ideas, interests with faculty members, HOD and Principal for the improvement of Institution in all perspectives. The student council is named as Sensational Engineering Student Association (SESA), which consists of advanced learners from each Department. The students are included in SESA on selection basis.

The roles and responsibilities of student council in academic and administrative bodies are:

To express their opinion to the administrative bodies of the Institution.

To promote and encourage the involvement of students in

organizing College activities.

To promote the interest of students among the college administration, staff and parents.

To consult students on any issue of importance.

To organize educational and recreational activities for students.

To organize an activity or an event to recognize the efforts of students involved in organizing college activities.

To propose activities to the college administration that would improve the quality of life in the college.

Student council has to ensure pleasant atmosphere for smooth conduction of academic activities in the college premises.

To actively participate in the activities like Technical Quiz, Aptitude Test, Group Discussions and Mock Interviews that helps them to get placed in Multi-National companies.

To actively involve in extra-curricular activities like Plantation, Swachh Bharat mission, Sports and Cultural events.

To organize Technical Seminars which will be given by individual students in order to enhance their ability to excel in Industry.

To co-operate faculty members for personal counseling that help the students to resolve their problems in the academics.

Active involvement of students in achieving ragging-free campus.

To incorporate the interest in "Outcome Based Learning" that helps the students to become an Employable Engineer.

Students should come out with innovative projects which will attract industry people and good enough to apply for patents.

To raise interests in Industrial Visits and Placement Drives.

To co-operate the faculty members to teach beyond the syllabus and master all subjects.

To involve voluntarily in conducting National/Inter-national

level Workshops and Conferences etc.

To involve actively in Academic Committees and support the Committee Members to perform their activities in smooth manner.

To actively participate in Training Programs Organized by the Institution.

To actively participate in State Level or National Level Seminar and Project Competition.

To incorporate interest in Learning beyond the Syllabus.

To express their innovative ideas.

We have the following academic and administrative Committees in which student Council is involved:

1.Grievances and Redressal Committee (Students).

2.SC/ST Committee (Equal Opportunities Committee).

3.Placement and Training Committee.

4.NSS and Medical Facilities Committee.

5.Library and Professional Societies Committee.

6.Entrepreneurship Development Committee.

7.Disciplinary Committee.

8.Computer Center Committee.

9.Canteen Committee.

10.Anti-ragging Committee.

11.Alumni Committee.

12.Women Empowerment & Prevention of Sexual Harassment.

13.Transport Committee.

14.Students Welfare and extracurricular activities Committee.

15.Sports and games committee.

16.Hostel Committee.

17.Eco Club.

18.NCC.

19.Health Club/Center.

20.Cultural Committee.

21.Website/ IT/ ICT Committee.

22.Publication Committee.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://smec.ac.in//Council

5.3.3 - Number of sports and cultural events / competitions organised by the institution

10

File Description	Documents
Report of the event	**No File Uploaded**
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	**No File Uploaded**

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The Alumni of an Institution forms the core of the value system that the Institution believes in and diligently practices over a period of time. St. Martin's Engineering College established in the year 2002, has a standing of 18 years and has at credit more than fifteen hundred alumni as its proud ambassadors.

These ambassadors participate in nation building in various domains. The Alumni of SMEC, who are chiselled as per the Vision and Mission of the Institution are a great contribution to the society. It is with the symbiotic bond with these alumni that the Institution can further improve, and further contribute to the growth of the new batch of students. It is in this direction that the Alumni Association of the College called

'DISHA' was functional since 2008. However the Association has been registered with '1684 of 2018' registration number in the year 2018. Though the registration has taken place recently, it has been functional, highly proactive and regularly been meeting for further continuation in terms of inputs, feedback and participation in the improvement of the Institution.

The 'Alumni Meet' is conducted twice in a year, where the alumni from all the Departments 'CSE, ECE, MECHANICAL, CIVIL, EEE and IT' as UG program graduates along with PG programs, i.e., CSE, ECE, and MBA can gather under one roof .The alumni students can share all their experiences from campus life to career life, the various efforts involved in attaining a professional life. The meet will be almost an interactive session.Successful entrepreneurs, professionals and project team leaders from the alumni are invited to talk on their success stories. The employees with foreign MNCs from alumni also respond to this great occasion and bring glory to the alumni meet with their multi talented skills through telephone conference.

The alumni also assist the final year students of various streams of engineering to get their project placements and summer internship in their companies. This is the probable way, the regular alumni association meetings pave the way for the successful placements of the students.

At the end of the alumni meet, feedback to be taken from the alumni for the effective conduction of the programme in further years and for the benefit of outgoing students.

"Knowledge" is the main base of any learning process. Suitability for any employment criteria can be judged based on "the knowledge in all aspects" of a job seeker.

"Communication Skills" are life skills, without which the acquired knowledge will be remained unsuccessful. During the student life, a student ought to acquire these with equal priority for subject knowledge.

"Interpersonal Skills" teach how to behave, respond and act at the work areas. Proper and careful training in this area makes the learner confident at all stages.

"Management Skills" are extremely important in order to cope with any work environment and succeed in any field.

"The Design of Curriculum" at Institutions should pave a way for an employee to perform all the assignments successfully at the work places.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://smec.ac.in//Council/Alumni

5.4.2 - Alumni's financial contribution during the year

A. ? 15 Lakhs

File Description	Documents
Upload any additional information	No File Uploaded

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

College Vision and Mission

Vision

To become an institute of excellence by creating high quality and innovating engineering and management professionals who would take the world into their stride through sustainable growth in technology and management.

Mission

To instill moral values and promote technological, intellectual and ethical environment to the students with an in-depth and exceptional education that makes them employment ready as per the emerging trends in industry and to invoke the desire of

innovation as a process of life-long learning for a successful career in engineering and management.

The Principal is the Academic and Administrative Head of the Institution. He is assisted by Deans, Heads of the Departments, Accounts Officers, and Conveners of various Institute level Committees. The various Committees direct the day-to-day functioning of the Institute

include: Governing Body; Head of the Departments, Internal Quality Assurance Cell (IQAC),

Admissions Cell; Examinations and Evaluation (EE), Research & Development Cell (R&D) andTraining and Placement (T&P) Cell.

Recurring requirements of Departments are identified by the Heads of the respective Departments, which are presented to the Principal .The identified requirements are presented to the Governing Body by the Principal and approvals obtained.Faculty members participate, through corresponding Functional Committees, in finalizing teaching methodology of courses, maintenance of academic standards, and student welfare. Such participation brings transparency to the governance and inherently encourages team-work.Students and alumni members are also involved in certain Committees including the IQAC so that their views are also considered in governance.Thus, all stakeholders of the Institute are involved at various levels in assessing actual needs,budgetary requirements, academic standards and policy-making, progression in innovation andresearch. The Principal subsequently drives the resulting policy, strategy, resource allocation, andoperations through the Governing body. Societal impact and responsibility are assigned prime importance such that the Institute contributes to sustainable socio-economic development through globally competitive standards.

PERSPECPTIVE PLAN OF THE INSTITUTION

Enhancing the quality of teaching and learning process by incorporating modern and digital methods.Promotion of Research among staff & Student by using ICT Tools and improve research synergies with industry Improving industry institute Interaction

Engaging extension activities

Effective Quality Assurance Measures

Obtain AICTE/DST/UGC Grants from Government sources

Internal Revenue Generation schemes

Establishment of Research Centre

Incubators & Innovation centre for Start-Ups

Increase the faculty with Ph.D., qualification to 100 % by 2023

Envisioning the establishment of a Deemed University and aiming to offer world class educationand reached by using ICT Tools

QUALITY POLICY

The Quality policy aims at making St Martin' Engineering College along with its Management Institute to be one of the best institutes within the state through continual improvement of its scholastic ability andeffectiveness of the quality management system.

Thus the Governance of the institution is indicative of an effective leadership and provides opportunity forstakeholder participation. The governance is transparent, objective, enabling and in tune with the visionand mission of the institution.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	https://smec.ac.in//Aboutus/visionmission

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The institution has decentralized and transparent mechanism in management, administration, financial andacademic affairs. The institution believes in delegating appropriate responsibilities from the top levelmanagement to low level and allows the top management to focus on policy making and major decisions.

The Governing Body constitutes the members of the Management, Representative from JNTUH, Principaland two senior most faculties. The Governing Body has the Principal as the member

secretary besidesDean Academics, Research , Academic & Administrative committees and IQAC who also participate inthe highest decision making body of the institution. The Principal, who is part of the Governing Body, andparticipates along with management & faculty member in the Governing Body. The Faculties of thecollege are the conveners of various committees along with the student representatives, parents and alumni thus all the stakeholders participate in the governance of the institution.

Besides decentralization is ensured through the approvals provided by the Governing Body to the Perspective Plan and the Budget. Once the approvals are given, the Heads of the Department are free totake all decisions related to governance, academics, evaluation etc. various committees are set up with thefaculty as conveners and student representatives, who take decisions on a variety of issues throughcommittees. Thus there is participative management and decentralization of governance and power. The IQAC of the College plays a pivotal role in quality assurance, sustenance and enhancement through visioning and deployment besides review for quality assurance.The decentralized mechanism exists even at the department levels. Decisions at department levels are taken by well-structured committees.

CASE STUDY

The said case study enables one to understand that there is participative management at institute level. A student studying second year B.Tech stays in the boys hostel inside the campus. During the month March 2020, the Govt of India has imposed lockdown due to Covid 19 pandemic and all the students are instructed to go back to their hometowns. The student faced lot of problems for moving to his hometown due to the state border restrictions imposed by various states. On the other hand the student's parents were aged and they are also helpless to migrate the student from campus to their hometown. In this difficult situation, the student has approached the Hostel Warden of the hostel and expressed his difficulties to go to his home town. The Hostel Warden has taken initiation and arranged all the necessary state permission by contacting the local police of the state. Also, the warden has deputed one staff and arranged a private transportation to drop the student in his hometown. The deputed staff has accompanied the student and dropped him in his home without any hurdles. The parents have called the Hostel Warden and expressed their happiness for bringing their child in a safe way. Due to the decentralization

and participative management at institute level, the Hostel Warden could do this without taking any help from Principal and the management of the institute.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	No File Uploaded
Paste link for additional Information	https://smec.ac.in//commitee/commitee

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The College has a Long term Strategic Perspective Plan as well Annual Strategic Perspective Plan for continuous improvement and move towards the realization of its vision, mission and core values.

The Long term Goals:

To strengthen the teaching -learning process.

To promote "Swacch Martins' further.

Center of excellence in Engineering and technology and to setup incubation centers

Strengthening of academic and R &D programmes in collaboration with reputed Universities and industry.

To attain NAAC accreditation with A++ Incubation center for all departments.

To attain autonomous Status and to maintain NBA accreditation for all departments.

Number of patents and book publication to be increased.

Number of funded and consultancy work to be increased.

Strengthening of Academic and R&D programmes in collaboration with reputed Universities and Industry.

To depute more faculty for Conferences/Workshops etc.

Medium Term Goals:

Motivate students and faculty for higher studies

Improving Placements in Core Sector.

To improve Industry Institute Interactions.

To encourage faculty to publish technical papers in reputed journals.

To encourage Students to take part in national / International Conferences and publish their Research work

Short Term Goals (Annual Goals):

To modernize class rooms and laboratories.

To modernize laboratories.

To depute supporting staff for training.

To enable automation of the administrative and academic sections.

To save power.

At the beginning of every academic year, the principal mandates the IQAC to brainstorm and prepare the SPP. The IQAC in turn asks all the Heads and Conveners of 56 Clubs/Cells and Associations to prepare their respective Perspective Plan in sync with strategy and in turn sync it with the University Calendar of events every year.

Case study of successfully implemented Strategic Plan:

To save power (Go Green) :

The vision of the college is to attain sustainable growth through technology. In line with the vision of the college our in house staff and students have developed a mechanism to reduce

the dependence on conventional methods of energy and switched to better method of sustainable growth by using and taking advantage of Renewable energy sources like solar energy which is abundant in nature. Solar power plant has been installed to convert solar energy to electrical energy this process enabled us to reduce the consumption of electricity thereby reducing our expenditure on power bills .The solar power plant has the generating capacity of 132KW. To generate that power we are using 414 solar panels, in which each possesses 315 WH capacity. By using these solar panels we are generating DC power, to invert this into AC we are using four Inverters of each bearing of 33KW capacity. The complete solar power station was erected in On Grid metering system. That means we are not using any type of battery storage system. The amount of energy which is generated by the solar panels is directly supplied towards load; the remaining energy can be taken from the grid. The complete solar power plant is automatically operating system.

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
Paste link for additional information	NA
Upload any additional information	View File

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

The organization has a well-structured administrative setup with Governing Body as the highest decision making body and 56 other functional bodies and committees. The administrative setup and the functions ofvarious bodies are given in the link for additional information.

1.ADMINISTRATIVE SETUP :

The apex body of the Organogram is the governing body, which is financial, administrative and quality systems policy making body under which the entire college functions are being organized and controlled.This committee meets many times in an academic year depending on the college issues and it will meet aminimum of three times in an academic year.

The Chairman, Executive Director and Principal are the

functionaries who take the responsibility of implementing the policy decision of the governing body.

The Principal has the executive powers to administer the academic, development, and other functions based on the guidelines prescribed by him. Dean Academics and Dean R&D assist the principal on all academic matters

There are 8 academic departments directly reporting to the Principal as line management organs. Each department is headed by Departmental Head below whom all laboratories and faculty are functioning

2. Functions of Various Bodies:

To provide policy framework and direction for the functioning of the institution, 56 committees play a vital role. Which evaluate, monitor and recommend in respect of various matters related to Institutiona lCapacity, Review, Design and Education Effectiveness, Research, Examination and Evaluation etc. forsustaining Institutional Capacity and Educational Effectiveness.Committees list and details

1.Service rules, Procedure, Recruitment and Promotional policies

Service rules, policies and procedures for the institution are in place and documented. They are made known to all newly recruited staff members through an induction programme. The Recruitment and the Scales of pay for various teaching positions will be as per AICTE

Recruitment Policies:

The process of recruitment includes:

Invitations of application (Paper advertisement , through references etc) Preliminary assessment of the suitability of the candidates(review of resume received)

Invitation to applicants for a campus visit for the interview Assessment by Selection Committee and recommendation to the management Final decision on recruitment by Management.

Promotional Policies:

All promotions are by Selection Committee only.

Eligible candidates shall be considered for promotion on the recommendation of the selection committee.Number of posts at various levels in each discipline shall be as deemed necessary by the college Authorities List of the Service rules, policies and procedures are given below.

Service Rules Book

Sample Copies of Promotional Circulars of SMEC

Supporting Documents

4. Grievance and Redressal Committee:

The Grievance Redressal Committee of the SMEC is established with an aim to provide easy and readily accessible procedure for prompt disposal of the day to day genuine grievances of the student and faculty community to maintain a congenial atmosphere. Any genuine grievance may approach the GRC to submithis/her grievance in writing to "The Convener, Grievance Redressal Committee, SMEC or through suggestion box.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.smec.ac.in//Academics/orgStructure
Upload any additional information	No File Uploaded
Paste link for additional Information	https://smec.ac.in//assets/images/SERVICE%20RULES.pdf

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	**No File Uploaded**
Screen shots of user interfaces	<u>View File</u>
Details of implementation of e-governance in areas of operation	<u>View File</u>
Any additional information	**No File Uploaded**

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

St Martin's Engineering College undoubtedly considers that the teaching and staff play a key role in the growth of the institute and therefore providing welfare measures and services at the workplace becomes vital to provide continuous improvements in. These welfare measures include enriched physical and mental health to the employees and thus promote a vibrant and encouraging work atmosphere. It would also stimulate the employee's productivity and commitment to the institute. Indeed, a motivated employee will respond by contributing to the best of his / her capabilities. A comprehensive list of welfare facilities and services provided to the teaching and non-teaching staff at SMEC is provided in the attachment. These facilities and services are availed by them based on their eligibility and requirements at the appropriate time as per the prevailing norms of the institute The Institution provides effective welfare measures to both teaching and non-teaching staff. All statutory welfare measures are implemented. Various monetary, non-monetary measures towards personal and professional growth are being extended to the satisfaction of the employees. The institution has a Women Empowerment Cell as well, which caters to the grievances and other needs of girl students as well as lady faculty and female staff members. SMEC recognizes the contribution of the employees towards the development and progress of the organization.

Welfare measures for teaching and non teaching staff:

Group Insurance: Employees are covered under Accident Insurance.

Maternity leaves: Maternity leave for three months is given to

female staff.

Medical leaves: Medical leaves are sanctioned for the required staff.

Loans: Laptop loans are provided for both Teaching and non-teaching faculty.

Gifts: Gifts and mementoes during Teachers' Day celebrations are given

Sponsorship for higher studies: Faculty members, if opting for higher studies, leading to enhancement of quality, are sponsored either in terms of finance or in terms of leaves

Finance for health care: Financial assistance is provided on emergency medical grounds for staff.

Advance Salary: Salary in advance also provided to the staff members who are in need.

Financial support for the Supporting for of the children of the teachers in the group institutions.

Publication Incentives: For participation in the National or International Conferences and for publishing research papers in the National or International Journals, its registration fees and the cost for the participation are given. Publication in is encouraged through prize money.

Sponsorship for knowledge up-gradation: Faculty members are sponsored for attending STTP, workshops, seminar, and conferences for up-grading their knowledge

Ex-- Ex- amount is provided to the staff's kith and kin on the demise of the staff while in the service.

Promotion: Faculty members, based on the qualification, services, and outcome of the performance appraisal, are given promotion on to the higher post or financial benefits. The following are the amounts spent for the welfare measures for teaching and non-teaching staff

2013-14 - Rs 2,39,000,

2014-15 - Rs3,29,000,

2015-16 - Rs4,39,775,

2016-17 - Rs 7,88,600,

2017-18 - Rs 6,37,900

2018-19- Rs 8,79,550

2019-20 - Rs 10,14,680

2020-21 - Rs 13,00,800

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	NA

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

157

File Description	Documents
Upload any additional information	**No File Uploaded**
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

51

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	**No File Uploaded**

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

243

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	**No File Uploaded**

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal and External audit Mechanism:-

SMEC Strictly believes in following all statutory requirements for all audit and accounting practices. The institution conducts internal and external financial audits regularly. As part of this mechanism, theinstitution has in-house team consisting of two persons for carrying out the internal audit. The team conducts internal audit on regular basis and submits the report to the Chairman IQAC (Internal QualityAssurance Cell). The Chairman IQAC attends to the major audit queries raised by the team and takes appropriate steps for remedial action.

The institution also has external audit mechanism carried out by M/s REDDY & KUMAR, Chartered Accountants having standing of 35 years. As a part of the mechanism, queries will be raised which are put before the Chairman IQAC. After due clarifications & rectifications, the accounts will be finalised accordingly. The external audit is conducted once in a year.

The Chairman IQAC is also contemplating to appoint an Audit Sub Committee to attend all the queries raised by the internal audit team and external auditors.

Income & Expenditures:

The details are available in the income and expenditure

statement, which is uploaded.

Objective of Internal & External Audit:

The objective of conducting Internal and External audit is to locate discrepancies in the accounting process.The internal audit is done by in-house team comprising of two members. The external audit is conducted by registered chartered Accountants. Internal Audit is conducted twice in a year and the external audit conducted once in a year. Provision of departmental budget is followed and the optimal utilization of funds and the monitoring of the budget is done through Internal and External Audit. After the internal audit is conducted and the discrepancies are located .The internal audit report is submitted to the Chairman of IQAC. Principal of the college is the Chairman of IQAC and reviews the internal audit report and takes the necessary steps for follow-up action.

The Chairman IQAC, will review the internal audit report with all the IQAC members and then will direct he Accounts Officer to make the necessary corrections. The Accounts Officer on the directions of theChairman IQAC will rectify the discrepancies identified and will submit the corrected audit report to theChairman IQAC.

Financial rules are implemented in the college. No-Cash transaction is encouraged. Fee payment throughon line method is made mandatory. An effective financial management system is followed which ensures that no financial mismanagement takes place and utmost care is taken to follow the best accounting practices.

Audited financial statements including Income and Expenditure details, Audited Reports are prepared by aqualified External Auditors who are certified Chartered Accountants and then the same is filed in the Income-Tax Department.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.smec.ac.in//Home/Iqac

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

36.55

File Description	Documents
Annual statements of accounts	**No File Uploaded**
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	[View File](#)
Any additional information	**No File Uploaded**

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

Mobilization of Funds:

Most of the funds required by the institution are being met out of internal generation from fees collected.The institution as its policy has a panel of external agencies for obtaining term loans required for anycapital expenditure or working capital finance.

Apart from this, the institution also has allocated finance function to one of the managing committee members who will look after the procurement and deployment of the funds.

The Telangana govt regulates fee to be collected from the students for the colleges are fixed by TelanganaAdmission and Fee Regulatory Committee (TAFRC).the tuition fee fixed for the college depends on theinfrastructure available, the faculty strength, sanctioned students strength by JNTUH for individual branches. The TAFRC takes the data from respective colleges every year and conducts inspection to finalize the student's fees for undergraduate and post graduate courses.The funds are granted through the collection of tuition fee as guided by the TAFRC.

The funds received year wise is 2020-21 it is 30,38,08,746, 2019-20, it is 29,14,53,300, 2018-19, it is 26,32,01,400, 2017-2018 , it is Rs 23,45,07,600, 2016-2017 , it is Rs 19,09,70,400, 2015-16, it isRs16,33,03,884, 2014-2015, it is Rs15,06,94,500/-, 2013-2014,it is Rs13,96,52,671/-.

The Tuition fees are collected annually. In order to meet revenue expenditure, the financial needs are metthrough short term loans from the panel of identified agencies like Banks and Financial corporations. Theother sources of income are:

1.Transport fees collected from students.

2.Admission fees.

3.Application Fees.

4.NBA Fees.

5.Examination Fees.

6. Hostel Fees

7. Revenue generated from Consutancy Projects

8. Revenue generated from Funding Projects

9. Revenue generated from Conferences, Workshops, FDPs, Seminars.

10.TCS-ION:

The College lends its infrastructure for external agencies like TCS-ION for conducting exams e.g. RRBExam, GATE, CAT, JIPMER and TSPSC.

Strategies for optimal utilization of financial resources:

The college also rents its premises, auditoriums, playgrounds for activities like short film shooting, feature film shooting, sports meet, audio & video releases of films. Our hostels are also used to accommodate students who come to attend sports meet and Conferences. The Sports Bodies pay rent for utilising our hostel facilities.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	NA

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First

Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

Role of IQAC in SMEC:

IQAC of the SMEC is committed to providing quality in all the domains of the campus life. It draws strategies for quality achievement, substances, and enhancement. IQAC has evolved various procedures for meeting the requirements. It draws strategies through Curricular Aspects, Teaching learning process,Research practice, Community engagement, HR Management, Industry Interaction, placements,Infrastructure Facilities, Learning Resources, Student Support Progression, Governance, Leadership &Management operations activities.IQAC has mechanisms for ensuring implementation of all the policies, review and evaluation.

IQAC formulated strategies and processes for achieving quality objectives. Some of the strategies are:

Ensuring completion of syllabus coverage.

Curriculum planning and implementation

Conducting academic audit for improving the quality of course file.

Focusing special attention on slow learners and advanced learners.

Ensuring students participation in extracurricular activities.

Ensuring overall development for students and make them as successful persons in employment, entrepreneurship and higher studies.

Establishment of incubation centers.

Promoting In house research projects.

Some of the best practices followed are:

Conducting Academic audit for improving the quality of course file.

Promoting In house research projects.

Learning beyond curriculum.

Inculcating the spirit of Persuing research

Specialized coaching for Employment, Entrepreneurship and Higher studies

Out of the above practices two examples institutionalized are:

Best Practice -1

1.Academic Audit Mechanism

IQAC under SMEC is established to frame the strategies and policies for the holistic growth of the college. IQAC works in coordination with Academic Audit committee (AAC). The Academic audit Committee functions in the following levels.

At the beginning the faculty prepares the course file and verified by the subject expert and then HODs verification. The verified course file should be approved by Academic audit committee (AAC) member and Dean of Academics. At the final level the principal attest the course file.

The college has the practice of preparing session planning, clearly defined program outcomes, program specific outcomes and course outcomes which are mapped so as to evaluate the students in terms of attainment of Graduate attributes and Learning Outcomes which are incorporated in course file.

Best Practice -2

1.Promoting In-house Research Projects

The Institution arranges for interface among the institutions, industries and the public to take up research projects which are relevant to the present world. The focal objective of the institution is to transform the students into productive citizens through integrative and experimental learning process. Every student at SMEC is encouraged to present their innovative ideas towards product development. The Institution for this purpose has set up Project Laboratories in each department by providing the best equipment to conduct experiments. The Milestone in this Category is that the Institution started a mechanism to provide sponsorship for student ideas and Projects.

The institution encourages the staff and students to Present and Publish their research work in the International, National level Conferences and Journals

Evidence of Success

Some of the best In-house Projects:

1.Stree Swachtha (Sanitary Napkin Vending Machine) (Award won in "NIRDPR" event)

2.Automatic Seed Sowing Machine

3.Campus Automation System with Information Kiosk

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.smec.ac.in//Home/Iqac

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

IQAC in SMEC has a main function to look into the transparency in teaching learning process. The cell has initially studied the prevailing processes and the profiles of the faculty along with their experience and expertise in their relevant subjects. The relevant outcome of the internal discussions of IQAC is circulated from time to time to all the stakeholders to incorporate the modification suggested by the IQAC. According to affiliated university examination pattern, the students are evaluated only twice in a semester. It is observed that the students are learning the subject only with the view to attempt the university examinations. The IQAC suggested weekly tests and prefinal exam for the improvement of students

MANAGEMENT INFORMATION SYSTEM:

The institution implements the ERP modules to generate various MIS reports for the efficient decisionmaking. The ERP Modules are listed below:.

1.Staff Data

2.Time Table

3.Attendance

4.Internal Mark

5.Schedule alter

6.Black Box

7.Student Feedback

1.REVIEW BY IQAC ON ADVANCE LEARNERS AND SLOW LEARNERS

When admission process is complete, the Institution organizes orientation program for all the students inviting the experts of personality development. Then, the level of the students is identified based on the test conducted for the students and assessment will be completed. The students are grouped into slow learners and advanced learners. The Institution has a mentoring system to help the students improve their learning levels. For Advanced Learners, the institute identifies their learning needs through various ways like classroom interactions, quiz and seminar assessment. They will also be given special coaching to take competitive exams like GATE, GRE, TOFEL etc.

The following strategies are adopted for improving academic performance. Remedial classes for weak students. Students are encouraged to participate in classroom interactions. Practical demonstrations, field trips/industrial visits are arranged. They are guided to work independently for conducting Seminars and take up value based projects Innovation and Creativity in Teaching - Learning:

3D Printer:

These objects can be of almost any 3D shape or geometry produced from electronic data source . A 3D printer is a type of industrial robot. The main focus is design of metallic 3D printer and its applications. The study on design of 3D printer involves the basic analysis of present 3D printers, their parts and mechanism. 3D printing machine is designed and developed with different parts like extruders, nozzle, stepped motors, Teflon tube etc which are assembled, tested and also printed some objects. The development involves the preparation of the filament that could print the metallic objects. Trials were made

on different filaments and conclusions are drawn. Betterments are made to improve the performanceof the filament in all the aspects required.

Formability Testing of Metals:

Sheet Metal Forming is the process of converting a flat sheet of metal into a part of desired shape without fracture or excessive localized thinning. The process may be simple, such as a bending operation, or a sequence of very complex operations such as those performed in high-volume stamping plants. In the manufacture of most large stampings, a sheet metal blank is held on its edges by a blankholder ring and is deformed by means of a punch and die. The movement of the blank into the die cavity is controlled by pressure between the upper and lower parts of the blankholder ring. This control is usually increased by means of one or more sets of drawbeads. These consist of an almost semicylindrical ridge on the upper part of the blankholder and a corresponding groove in the lower part (the positions are sometimes reversed).

Seed Sowing Machine:

Automatic Seed Sowing Machine: In last few decades it is witnessed the development in each and every field. In the field of agricultural also we had seen remarkable development, big farmers are now a day's using cultivator, harvester, tractor, advance machine tools and advance farm equipment's, but in our country l 70% of farmers are small and marginal and they are still doing farming by traditional method. Thus they are in need of improved agricultural tools that may be hand driven or bullock driven. Thus similar advanced type of tool is designed. The input conditions are taken based on a survey leading to agricultural land around Hyderabad. Materials and manufacturing processes are carried out by students.

The Automatic seed sowing machine is developed by students for seed sowing. It can be operated by mobile. It can sow the seed equidistant. It is light weight so need less tractive power. The battery is rechargeable

2. REVIEW BY IQAC ON TEACHING – LEARNING PROCESS

Institution will follow the evaluation process and internal assessment. We conduct formative assessment and summative assessment. Formative assessment includes group discussions,

quiz session etc. Summative assessment includes internal examinations, external examinations and practical examinations.

In the internal assessment process, we conduct the internal examinations for theory and lab topics to check the performance of the students. We also allow final year students to develop projects. There is a Grievance and Redressal cell for students, in which they can express their grievances like re-counting, re-evaluation, etc.

Institution follows the academic calendar given by the university. According to that, examinations will be conducted and course perspective plan are prepared to complete the syllabus. Institute prepare institution calendar to conduct the activities to the students like guest lectures, workshops, etc.

The following reforms are adopted by the institute as per university directions. They are as follows:

Summative Assessment

The University has introduced many reforms in the last five years for reining in transparency, objectivity and efficiency, and same is adopted.

Formative Assessment

Our Institution has introduced a Formative Assessment which is diligently developed, implemented for regular practice. A comprehensive scale of parameters is considered for of the score given by all the students for each subject is taken as feedback for particular faculty for that subject. HOD's Track the record of every individual faculty. The Percentage for each parameter is also considered for performance review of the faculty. Substandard faculty members are sent for like FDP's, Professional courses and workshops.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.smec.ac.in//Academics/Iqacmom

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the   A. Any 4 or all of the above

IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.smec.ac.in//Home/Iqac
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

St. Martin's Engineering College initiated good number of measures for Gender Equity. SMEC approximately has 30% of female staff and 46%female students. Women faculties are also provided with an opportunity to lead the departments as heads of the department and are given coordinator ship for several activities. Female students are encouraged to take part in all activities and to lead co-curricular and extracurricular activities. Students of the institution used to be sensitized on Gender - Equity through webinars, seminars and counseling and guidance sessions. The Institute celebrates "Women's" Day annually and motivates all the staff to organize discussions for understanding the role of women towards a progressive society. Female students are motivated and supported for various academic and non-academic activities.

Safety and Security:

The crux of the SMEC's modus operandi is to identify factors which carve the facts of safety and security of the privileged class of the college i.e, the girl students and the lady faculty

.The prominence applied to this aspect defines the terms of reference towards the quality of education and conducive environment catered to in the college.

The competency and functionality architecture on which the safety and security measures are built as follows:

Precautions have been taken during transport, in the campus, canteen, library, sports area to monitor the movement of students and ensure safety of the students. Bus incharges monitor the safety of the students during transit. Every route has two bus in charges. During lunch hour faculty from all departments assigned duties to ensure safety. Closed circuit cameras are installed at various points to record the activities of the people moving in the campus.All students commuting to college in their two wheelers are instructed to wear helmets. Without helmets they are not allowed inside the gate. Health Care and Medical Emergencies - Students have access to First aid facilities and wheel chair. Ambulance services are available on call. Scope for Grievance Redressal - Robust mechanism is in place for Grievance Redressal through Anti-Ragging Committee, Women Grievance Cell and Student Counseling Cell. Grievance cells ensure that quick solutions are given to the problems faced by girl students. As part of Women's safety, at our campus every faculty focuses on counseling to ensure they excel in all areas. The basic amenities are the protective and basic sources of safety in terms of health and hygiene for the women working and studying sector. The infrastructural amenities catering to this is found satisfactory as per the feedback given by the girl students. Regular instructions by external senior lady officials viz., Inspector of Police and Traffic Inspector helps in continuous progress and reviewing of updated rules and regulations for the young girls of the college.

The addressals by these officers of high order also provides the impetus and encouragement for the energetic young girls to safe guard themselves as well protect themselves from the wide public eyes.

Counseling:

Student Counseling Cell takes care of the counseling program. All students can avail the facility. Every department has two counselors who counsel the students. The students can contact any of the counselors in their respective department. The office provides a confidential atmosphere in which the students can

explore any topic or situation and discuss any concerns they may have. The office offers free counseling to students on individual or group basis problems related to anxiety, stress and other career related problems can be discussed. The Counseling sessions by the allotted faculty counselors on a regular weekly basis helps to keep a check about the progress or regress in the status of the young students viz., mental and psychological. Precautions are observed that if any problems are hereby faced by the students, they are not escalated, which may prove to be risky in the future fr the students' parents. The feedback on their process contributes in repairing the system, enhancing the methodologies and affirming better relationships with every person in the intrinsic and extrinsic society within which the students dwell. The social and personal space between the boy and girl students as well between gender-specific faculties is elaborately explained to the students .It is very well cautioned to the students to not overstep their steps, everything as a word of well-being of the students. Regular monitoring of the students who seek the help of the respective counselors is conducted to maintain a long term relationship and building confidence in these students that support is always given whenever needed. The counseling center is a "Home away from Home" for the students who feel lonely, depressed and isolated. Counseling spells a note of hope, concern and care - A symbol of acceptance and concern.

Personal and Mentor counseling

Mentoring/counseling is regarded righteous because the college consider the value of the students and perfecting their character .The college considers and wants the perspective of its valued customers the students on a variety of life challenges(both small and large; personal and formal).Mentoring /counseling is intended to be a long term relationships, with its privileged students.

Career Counseling

The aim of career counseling is to meet the objectives of its talent management ideas, which are to ensure that there is a talent flow that creates and maintains the required talent pool.

For instance:-

1. To give them the guidance, support and encouragement the student need to fulfill their potential and achieve a successful career with the organizations in tune with their talents and ambitions.
2. To provide those students with promise a sequence of experience and learning activities that will equip them for whatever level of responsibility they have the ability to reach.

Psychological Counseling:

The college functions with its students, on a balanced psychological level with the service provided by a specialized counselor in professional psychology. A dedicated counselor looks after counseling sessions from morning 09.00 am to evening 04.00 pm. The counselor diligently helps the students with physical, emotional and mental health issues, improves their sense of well-being and self-esteem, alleviates the feelings of distress (evolved through family problems, friendships, depression etc.). The counselor also provides assessment, diagnosis and treatment according to the severity of the psychological symptoms.

Common Room

Dedicated Common Room with good ventilation facility for female students with resting facilities has been created.In emergencies, a lady attender takes care of the students needs. Electric Sanitary Pad Disposal Machine is installed in the girls' common room. Specific cleaning schedule is given to the housekeeping people and followed meticulously. Girls' Common Room will be strictly adhered to the rules. Any violation in this regard will be deemed as misconduct.

Waiting halls with adequate facilities are provided in the college for students.Group counseling and personalized

counseling sessions were organized continuously by female psychologists.Sanitary napkins are made available to them in waiting halls.

Space is clearly earmarked in canteen for girl students. One female student is nominated as member of IQAC and the lady alumina were nominated as members of Governing Body twice.Best lady student and Best Sportswoman awards were constituted.Further, female students can compete for "overall best out going student award.Females are representing female students in class Monitoring Committee.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://www.smec.ac.in//Council

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy   Biogas plant Wheeling to the Grid   Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	[View File](#)
Any other relevant information	[View File](#)

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

St. Martin's Engineering College, Dhulapally, Secunderabad, affiliated to JNTUH, is a well known Institution and is offering 6 graduates. The serene campus is spread over 15 acres of land with state of art of laboratories, spacious and well ventilated class rooms. A large auditorium, modern conference hall, audiovisual room, gymnasium, playground and canteen are the additional facilities. SMEC has formulated a policy for ethical and sustainable waste management in the institution.SMEC has taken up waste management as a responsibility to protect environment and to provide a safe and healthy work environment for students, staff. The first step in waste management is to gain an understanding of the waste types being generated in

order to design appropriate collection and disposal strategies. St. Martin's Engineering College Management ishighlyinterestedtomaintainthecampusaseco- friendly and energy conservative. Separate team is appointed for gardening, make the campus smoke free and clean environment. The Campus has about 258 trees and more than 487 small plants in 17 acres and a well-maintained lawn.Many steps aretakenforcontinuoussaplingoftrees, plant distribution program to the students, staff and the people to promote the awareness in the form ofHarithaHaramProgram, creatingenvironmentalawarenessamongthestudentsand staff,wastewatertreatmentandsolid waste management.Various environment friendlyfactorssuchasWater,Air&Noise,Land, Parking,Flora& Fauna,SocioEconomic, Nursery, SolarSystemscontributeinmakinganeco- friendly campus.

Solid Waste Management:

St. Martin's Engineering College follows the practice of reducing solid waste as a part of this the solid waste is collected from the path way towards each and every block. All the solid waste from every department is collected at regular basic.

SMEC has removed hazardous waste materials like plastic, polythene and broken glasses are disposed properly to prevent the harmful effects on people and environment. Use of polythene and plastic is strictly prohibited at canteen and college premises. St. Martin's Engineering College a Plastic Free Campus, with an aim to measurably reduce plastic pollution, with a special focus on the reduction and ultimately the elimination of plastic bottles, plastic straws and utensils, and plastic food packaging to promote the use of eco-friendly cloth and jute bags. As an Initiation College conducted 'Say-No-To-Plastic' rally was conducted to spread awareness about the harmful effects of plastic, which all the volunteers of social outreach attended. In SMEC campus, the use of paper is greatly reduced. This is done by converting documents and other papers into digital form. College ran an awareness program to show students and faculty members how much paper they were wasting each semester. After tracking paper usage at print kiosks around campus, the college instituted a printing quota for each student, limiting them to 250 free printed pages per semester. After that, they would have to pay for their own printing.

The vegetable waste in the hostel and canteen are hazardous and trucks are being arranged to dispose the collected solid waste

from departments as well as canteen regularly to keep the campus clean. Drinking plastic water bottles are not suitable for reuse they are very harmful for our health. At the same time burning of these may release harmful gases that cause cancer so in SMEC we implement planiture. Planiture is initiated by SMEC to create Wealth out of Waste to make plastic to be reused.

WOW (well being out of waste) is a recycle Initiative of ITC Ltd started in 2007 under corporate social responsibility with an objective to protect environment conserve natural resources to inculcate the habit of source segregation among the citizens. Building construction waste material like cement, concrete and sand materials are used for land filling in the campus. Waste segregation is the process of separating waste at the point of generation and keeping all types of waste separate during handling, accumulation, interim storage and transportation.

Liquid wate management:

Liquid wastes mainly consist of waste water from residential, commercial and industrial areas in towns and cities. This waste water contains many dissolvable unwanted and rejected substances. In cities and towns, waste water is transported through sewerage system having a network of underground pipes called sewers.

Dealing with liquid wastes is one of the biggest challenges of urban sanitation. Liquid waste management require skilled personnel, coordination between different departments and organizations, and awareness of the issues by the public. At St.Martin's Engineering College no hazardous or toxic waste is generated. The college is a litter-free area. Students are sensitized on this aspect and adhered to by them in letter and spirit.

At St. Martin's Engineering College the liquid waste management is practiced through the following ways successfully. The liquid waste from individual blocks is collected at sewage points of the concerned blocks and collected waste water take by the RRC People and transpotation provided on alternative days.

E- waste management:

E-waste is highly complex to handle because of its composition. It is made up of multiple components some of which contain toxic substances that have an adverse impact on human health and

environment if not handled properly that is if improper recycling and disposal methods are deployed. So there is a need for appropriate technology for handling and disposal of these chemicals. E-waste is essentially in the form of electronic items which are rendered useless. Such items are either repaired or returned to the suppliers for disposal as per the manufacturer's policy. Outdated computer systems and components are sold to the vendors who treat and dispose properly. The only e-waste generated is computer and peripherals and electronic equipment. The working outdated computer peripherals are replaced. . At St. Martin's Engineering College the E-waste is collected through arranging bins at fixed points in the individual blocks and the collected E-waste is sent to RRC. RRC will organize sorting of the E-waste into different categories and bailing appropriate disposal. RRC shall coordinate with ITC and undertake necessary measures for the dispatch of E-Waste.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	No File Uploaded
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	No File Uploaded
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

1. **Restricted entry of automobiles**
2. **Use of bicycles/ Battery-powered vehicles**
3. **Pedestrian-friendly pathways**
4. **Ban on use of plastic**
5. **Landscaping**

File Description	Documents
Geotagged photos / videos of the facilities	**No File Uploaded**
Various policy documents / decisions circulated for implementation	**No File Uploaded**
Any other relevant documents	[View File](#)

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

A. Any 4 or all of the above

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

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	**No File Uploaded**
Certification by the auditing agency	**No File Uploaded**
Certificates of the awards received	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms

A. Any 4 or all of the above

and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The institution being a private self-financing affiliated college has limited scope for having the students PAN India. However, to promote diversity among the students and faculty, the institution provides an ecosystem and enabling environment for the co-existence of the people coming from different culture, region, linguistic and other socio-economic diversities.

The institution has made efforts to provide an inclusive atmosphere that encourages peace, tolerance and harmony among students and faculty. By virtue of the admission process, students across the all districts of the state and cross sections take admissions based on the merit as per the state council guidelines apart from few from other states. Once a student gets admitted he/she will be provided equally with all the resources for bringing harmony and nurture for the holistic development. In order to ensure holistic development of students and staff, the institution encourages them to involve in community services to develop good citizenship. The institution is increasingly involved in conducting the outreach programs for

the welfare of the society and to create awareness among students towards social issues The staff and students belong to different communities like Hindus, Muslims, Christians etc. being their mother tongues different like Tamil, Telugu, Bengali, Hindi etc. the institution has a very effective approach to maintain tolerance and harmony even though they belong to different communities and with different culture by organizing the events which bring the harmony and integrity among the students.

Yoga, guided meditation sessions, seminars on human values are organized every semester to create coherent environment and respect for individual. To promote cultural and regional heritage with diversity SMEC arranges cultural programmes by people of eminence in several fields. SMEC FEST (JANKAR) is the annual festival conducted every year where students are exposed to various dance forms, different instrumental music and poetry.

Transparent governance with clearly laid own procedures and Practices is paving ways for the inclusive environment in the College. Faculty working in the college, who belong to various parts of the country and different religions, are the indicators of the inclusive environment. Students will be guided, motivated and groomed independent of their region, religion etc. Every student will have equal opportunity to be part of the co-curricular and extra-curricular activities and taking leadership in the events organized in SMEC.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	No File Uploaded

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The employees and students of SMEC are provided with awareness on constitutional provisions by conducting seminars and workshops by Advocates, Judges periodically. During the Induction Programme, Sessions were conducted on constitution. One course is designed on values, rights, duties and responsibilities of citizens and offered in the curriculum as a credit course. Constitutuion of India (COI) and Professional Ethics subjects are included in the curriculum.

More than 50 number of NSS activities is conducted in 20-21 for sensitizing the public on social issues, inculcating the habit of social service among students. Students and staff used to extend financial help to the affected people in case of natural calamities.

Students are given encouragement and support to develop and provide technical solutions to local Villages and entrepreneurs, students developed equipment's, tools and solutions to support local formers, Poultry formers and Weavers in enhancing productivity of their concerns. Students are conducting Blood Donation Camps, Digital literacy Programmes.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized   **A. All of the above**

File Description	Documents
Code of Ethics - policy document	[View File](#)
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Independence Day:

The Independence Day celebrates every year on 15th August in front of M.G. Block. Our beloved Chairman Shri Laxman Reddy was the chief guest to the programme. At first, the Chairman Sir hoisted the national flag and described the national leader's sacrifices in attaining Independence, and he also emphasized the importance of healthy habits for a happy life in his speech.

Teacher's Day:

Teachers' Day is celebrated every year on 5th September. The programme was held at Swami Vivekananda seminar hall. The programme was graced by the Chairman Shri Laxman Reddy as the chief guest. Our college chairman spoke about the role of a teacher in reforming society in his speech. Principal Dr. P. Santosh Kumar Patra highlighted the teaching profession as the most sacred one among all professions. He also added that the teacher is the embodiment of knowledge.

Engineer's Day:

Engineer's Day is celebrated every year on 15th September. It was an apt event celebrated by young future Engineers. The students were eager to celebrate this occasion. Our Chairman, Shri. M. Laxman Reddy and Executive Director were invited as the chief guest. The guests spoke on the importance of the day and how Engineers could help in the growth of a Nation. Students also were invited to speak on the efforts taken by them to develop the society.

Gandhi Jayanti:

Gandhi Jayanti is celebrated every year on 1st October, in a day advance as 2nd October was a holiday. Executive Director, Shri G. Chandra Shekar Yadav was the guest of honour. The Principal Dr. P. Santosh Kumar Patra explained about the preaching's of the great leader, followed by the Executive Director's speech in which the importance of "Truthfulness" was highlighted.

International women's day

International Women's Day is a global day celebrating the social, economic, cultural and political achievements of women. The day also marks a call to action for accelerating gender parity. Every year on March 8th women's is celebrated at SMEC to dispel the notion that they are inferior to men and to promote the gender equity.

Republic Day:

Republic Day is celebrated every year on 1st October the Chairman Hoisted The flag and made a speech on the occasion. Following this, The Principal and a few faculty members made speeches on the importance of Republic Day Celebrations as a national festival.

National Science Day:

The National Science Day is celebrated on every year on 28th February. Our Chairman, Shri Laxman Reddy was invited as the Chief Guest for the programme. The Principal highlighted the genius of young minds in creating scientific ventures in his fable blended speech. The executive director explained about the present trends in science and technology. Department HOD's spoken on the efforts of technocrats.

Dr. B.R. AMBEDKAR:

Ambedkar Jayanti is celebrated on 14th April. As it was a holiday. The celebration of the occasion had been conducted a day in advance i.e., 13 April. our beloved Chairman followed by his speech. The Executive Director and the Principal highlighted the services of the leader for the upliftment of all the backward people of India.

NATIONAL YOUTH DAY:

Swami Vivekananda's birthday 12th January every year is observed as "National youth day" on this occasion in St. Martin's Engineering College, a programme was conducted, and our beloved Chairman was chief guest and he gave message on the importance of health.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	No File Uploaded
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

BEST PRACTICES BEST PRACTICE I

Title of the Practice An Integration of Innovations, Enlightening Technical Skills to Manifest into Career Building: AHub of Technology for Prosperity.

Objectives of the Practice

a) To enlighten skills and bring awareness about latest technologies, industry requirements and overallpersonality development.

b) To help in Career Visioning and Nourish the Designing and Innovative skills, paving way towardscareer in core companies.

c) To gain a competitive advantage by developing technical skill sets that is in demand.

d) To meet the demand for Business entrepreneurs, Innovators, Creative thinkers to Society where data is central to Research, Teaching and Business.

e) To influence contacts with industry and improve interdisciplinary training of technical skillscollaborate with training companies for domain-specific employability.

The Context: In Engineering context, the outcome of innovation is the fruit of creative process which takes forms fromabstract Technical concepts, Patents, Algorithms, data models to Mechanical and Architectural patterns and functional prototypes. Innovation Engineering is to enable and strengthen engineers

regarding Technological innovations whichoccur when need arises or opportunity presents having important implications for engineering practice andengineering education in the future. The main approach is the identification of skills and capabilities engineers should have, in order to actsuccessfully in field of Innovation, expected by enterprises and companies.

The Practice:

Technology Awareness Month (TAM) Technology Awareness Month (TAM) conducted every year by student volunteers with support of collegeshowcase the innovation and bring students closer to the edge of technology.The program adds value to theoverall growth prospects, crafted with modules that involve interactive and skill developing events likeQuizzes, Rapid Idea Group Discussions, Technical Workshops, Mock UN (United Nations), YouthParliament and Guest lectures.

Domain Specific Training Domain specific theories hold that we have many independent, specialized knowledge structures, ratherthan one cohesive knowledge structure. Training in one domain may not impact another independent domain. These are designed specifically to prepare students to use, reuse and contribute quantitative andqualitative analytical methods, used in innovating products.Value Added Education (VAE) Value Added Education provides additional learner centric and skill oriented technical training, with theobjective of improving employability skills of students. Courses offered are choice based on current trendsand training and guidance is provided to the students on the various aspects of building career and assistthem in exploring new opportunities. Certification Courses A variety of short term certificate courses are conducted after class hours or during semester breaks.Thesecourses are conducted by professionals and industry experts each course has its own assessment pattern,both practical and theoretical. Successful completion of the course earns the students certification issued bythe college. It predicts higher chances in campus placement opportunities. Task Skill Development Vocational Training Program: Relevant and accessible training to amplify the quality of organizational skills and technical training of thestudents is provided. Career Guidance: Career Planning for various career options assisted the students with career choice, job research, jobplanning, understanding self talent and job interview tips.

Aptitude Training Soft Skills Aptitude and ability tests are designed to spruce the logical reasoning and lateral thinking,

and inculcatefactors like numerical reasoning, verbal reasoning, abstract reasoning, speed, and accuracy.To hone Soft skills crucial for delegating and team building among the students, training in various taskssuch as team work, adaptability, problem solving, leadership, communication skills, work place ethics,interpersonal skills, social and emotional intelligence, cognitive or emotional empathy andtimemanagement is rendered.

Campus Recruitment Training Program (CRT) Campus Recruitment Training Program is exclusively designed for students' recruitment in reputedcompanies. The CRT system consists of a student login, an admin login and also consists of acompanylogin where in various companies visiting the college can view the list of respective college students andtheir resumes.

Finishing Schools Finishing school focuses on teaching social graces and upper-class cultural fusion to the young people. It isan intelligent combination of training, technology and fun in learning. Fresh graduates are molded intopriced assets ready to face any challenge head-on.

Technical Seminars The faculty takes interest in conducting seminars to their students by inviting eminent personalities whohave achieved some feat in science and technology to take seminars for the students which helps them tointeract with present and ongoing advancements in technical fields.

Micro Projects Micro projects create a self training program that serve as a basis for students and future employers instarting and running or working in an industry. The concept of micro projects is a way to show progress,deliver real impact in a short time frame and control resources that is beneficial to the industry they serve. 1.Entrepreneurship Development Cell (EDC) The mission- "Start Up India" promotes the spirit of entrepreneurship among students through education,research and training sessions. EDC provides mentoring opportunity through its network. Students standbenefitted by the experience of these initiatives. The association includes professionals, entrepreneurs,investors, and Industry experts.

Start Up Mentorship assistance for the start-ups of the student entrepreneurs is provided by inviting the Governmentofficials from DIC, TIIC, MSMEs, EDIs, successful alumni entrepreneurs and related field experts.Internal facilities such as learning resources, laboratory facilities, workshops, SIPP (Student InnovativeProject Proposal), organizing start-up festivals, RD

activities, new product development, re-engineering,market research, validating proof of concept and subsequently assisting them to cover costs likecertification and manufacturing pilot services etc.

Evidence of Success The Technology Awareness Month (TAM) proved successful by the enormous participation level of thestudents in the intellectual activities conducted such as the Gadget quiz, Debug and decrypt quiz,Circuitronics quiz etc. Current technology and innovations were visualized by workshops conducted onPython, Aurbindo, Html and CSS.Treading on the lines of employability capabilities, career guidance program focused on career choice, jobsearch, interview tips vocational training programs on telecommunication, autocad, photovoltaic system,digital marketing, web designing and animations, enabled students across the branches to stretch theirtechnical skills into viable integrated and innovative career options. Students optimally used programs of soft skills, CRT, Finishing Schools to sculpt their personality trait sand managerial skills, thus whetting their communicative and competitive spirit and enthusiasm promptinga positive feedback and impetus, heralding further such endeavors.

Problems Encountered and Resources Required

a) Motivating and encouraging students to concentrate on innovation and entrepreneurial activities.

 b) Providing repositories comprising teaching-training materials, data resources, lab activities, analysis and demonstration.

c) Providing assistance to start-up student entrepreneurs by inviting Government officials, alumni entrepreneurs and other related field experts.

d) Sponsoring basic start-up costs such as RD and Certifications.

BEST PRACTICE II

Title of the practice Ingrain Discipline, Human Interaction and Universal Values among the students through Community Orientation Activities

Objectives of the Practices

a) To model a new student orientation program that builds foundation for development of communitylearning

b) To create an atmosphere that minimizes anxiety, promotes positive attitudes, and stimulatescuriosity for learning

c) To emphasize importance of being involved in community orientation programs and taking responsibility for growth and humanity development

The Context The vision is culminated to inculcate moral values and build positive perception towards communityorientation activities in the minds of the students. Good relationship with the community makes the students aware of universal values and helps them to design their career by meeting both learning andcommunity goals.

The Practices

Blood Donation Camp Blood donation is organized every year and provides a global platform to celebrate individuals, who donateblood voluntarily, for altruistic reasons and without any monetary reward. The NSS wing of SMEC organizes this event with help of Red Cross Society of India. Sri Marri Laxman Reddy, the Chairman and the Executive Director Sri Chandra Sekhar Yadav encourage the students to takeactive part and take an oath on Blood Donation and social welfare activities.

Objectives: Students can improve someone's health by being a donor of blood. Donating blood has benefits not onlyby offering physical health but also is sharing psychological emotions:

a) Reduces stress

b) Improves emotional well-being

c) Benefits physical health

d) Provides a sense of belongingness and reduces isolation

e) Lower risk of cancer and heart diseases

Street cause For the past seven years, the students of St. Martin's Engineering College students have been

`activelyparticipating and contributing in a large scale. Students from all years have joined this cause. Usually,students who choose to do community service become volunteers as they chose voluntarily to help. StreetCause is an NGO comprising of enthusiastic students who intend to give back to the society and bringabout required change.`

`Objectives:`

`a) To help underprivileged, such as orphans, elderly, unemployed and differently abled, to live theirlives in the best way possible.`

`b) To rehabilitate street children into mainstream society.`

`c) A Life without a Cause is a Life without an Effect." can be seen distinctively in the students. Women Empowerment Women Empowerment Cell plays an important role for the girl students and lady faculty members withGender Equity programs conducted to showcase special skills of these students.`

`Objectives:`

`a) Conduct activities to bring balance in lives of girl students.`

`b) Create awareness about women's rights`

`c) Educate girl students in building self confidence and self esteem`

File Description	Documents
Best practices in the Institutional website	https://smec.ac.in//assets/images/criteria/7.2.1.pdf
Any other relevant information	NA

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

`Institutional Distinctiveness:`

EFFECTIVE PLACEMENTS FOR CAREER BUILDING OBJECTIVES

a) The goal of Training Placement cell is to provide students with a platform for utilizing their potential to gain valuable experience through working for Industry.

b) It also acts as the Interface among various companies seeking talented young graduates fromvarious disciplines.

c) To place students in Prospective IT Core companies.

d) To help the students developing a passion to win with a global mindset.

e) To assist students developing their academic and career interests, and their short as well as long-term goals through individual counselling and group sessions.

f) Maintaining and updating the database of students, maintaining database of companies and establishing strategic links for campus recruitments.

Collecting information about job fairs and all relevant recruitment advertisements coordinating with companies to learn about their requirements and recruitment procedures Identifying the needs and expectations of the companies to assist them in recruiting most suitable candidates. Organizing pre-placement training classes, workshops, seminars for students and arranging periodic meetings with HR Department of companies and TPOs to promote recruitments. ? To assist students for Industrial training and to obtain placements at the end of the fourth and sixth semester. ? To act as a bridge between students, Alumni, and the Employment community. THE CONTEXT St. Martin's Engineering College has a vision "to become an Institute of excellence by creating high Quality and Innovating engineering professionals. St Martin's Engineering College is providing sufficient practical exposure to the students to create action plans and execute the solutions in accordance with thedynamic and competitive external environment. In order to promote Technological, Intellectual and ethical Environment to the students with an in-depth and exceptional education that makes students employment ready as per the emerging trends in Industry, StMartin's engineering college invokes the desire of Innovation as process of life-long learning for their successful career in engineering. THE PRACTICE In St Martin's engineering college there is an independent Training and Placement wing

which provides all possible assistance to all students who are going to face the challenges of world competition. StMartin's engineering college focuses on the Personality Development of the students. Keeping in view the Industry requirements, curriculum is designed for preparing the students for entry-level Graduate Engineer Trainees. This Institution provides all facilities to learn Interview skills byconducting Mock-interviews. There are soft skills trainers, who help the students to learn soft skills fortheir employment purpose.

Some of them are as follows:

a) Personality Development

b) Communication Skills Vocabulary

c) Resume Preparation Email Writing

d) Group Discussion

e) Interview Skills

f) Aptitude Training Practice Tests

EVIDENCE OF SUCCESS

 The College has a record of over 90% of students being placed in top MNCs and IT giants all over the country. The statistics of the placements in the last five years: 708 Students in 2020-21, 706 students in 2019-2020, 704 students in 2018-19;702 students in 2017-18; 673 students in 2016-17. In the recent placements our students have been placed with Rs.27 Lakhs per annum package in AMAZON. Also, our students have bagged offers with high packages in IBM, Microsoft, IBI & BYJU.

Part B
CURRICULAR ASPECTS
1.1 - Curriculum Design and Development
1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

St. Martin's Engineering College (SMEC) was established in 2002 by St. Martin's Children's Education Society. SMEC offers 10 B.Tech & 1 MBA Course. Such as B.Tech in CSE(240), CSE- AI & ML (60), , IT (180), ECE (240), EEE (60), MECHANICAL (180), CIVIL (120)and MBA (120) with an intake of 1080. SMEC is a prestigious Autonomous (UGC-Govt of India) engineering college and first choice by aspiring students and parents. Since inception, SMEC with a motto of providing Quality Education in a highly disciplined and conducive environment with International Standards. It is a beautiful, unique & ineffable place which exudes positive energy, spiritual epiphany, sense of serendipity and produces intellectual, cultural, social giants & academic leaders.

The faculty is a blend of highly qualified academicians young and experienced who cater to both traditional and modern teaching techniques. Apart from the education system, the students are also encouraged in sports and co-curricular activities. The institute focuses to build and maintain excellent rapport with the top management of various organizations and industries and forge collaborative industry-academia alliances. On the whole, SMEC is the key for the success of technological engineering education.

SMEC stands a perfect platform in terms of infrastructure, facilities and in providing high quality education. E-Learning is the key to becoming successful and SMEC always stands for it. The college has a high-quality digital library that provides access for NPTEL videos, a wide variety of national and international research papers and MOOCS. SMEC always gives importance to training the students to meet the existing industrial demands. Guest Lectures /Seminars/Workshops have been organized by inviting resource persons from Industries and Institutions. Industrial visits are regularly organized to enhance the practical knowledge of the students and keep them abreast with the latest

technological applications in various industries so that their employability skills are sharpened.

Encouraging budding entrepreneurs is one of the prominent aspects in SMEC. Entrepreneurship is one of the prominent importance given in SMEC. The students are encouraged towards entrepreneurship and are trained accordingly. By establishing their own company, the student not only contributes to nation building but also gives employment opportunities to many others. The students of SMEC are facilitated in plant training, internships and other industrial related activities so that the students have complete awareness about business activities before becoming an entrepreneur.

Curriculum is developed and implemented in relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by SMEC.

College Vision and Mission

Vision

To become an institute of excellence by creating high quality and innovating engineering and management professionals who would take the world into their stride through sustainable growth in technology and management.

Mission

To instill moral values and promote technological, intellectual and ethical environment to the students with an in-depth and exceptional education that makes them employment ready as per the emerging trends in industry and to invoke the desire of innovation as a process of life-long learning for a successful career in engineering and management.

Program Outcomes Common to all Branches given by National Board of Accreditation (NBA)

S.No

Program Outcomes

PO1.

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Common to all Branches

PO3.

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4.

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6.

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7.

Environment and sustainability: Understand the impact of the

professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8.

Ethics: Apply ethical principles and commit to professional integrity and responsibilities and norms of the engineering practice.

PO9.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings

PO10.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11.

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments

PO12.

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Civil

S.No.

Program Educational Objectives

PEO1

Impart fundamental education to students in civil engineering core & allied subjects to develop them as full-fledged civil engineers through strong communication and entrepreneurial skills for the society.

PEO2

To train the students so that they can work and contribute to the infrastructure development projects being undertaken by Government, public sector and private sector companies.

PEO3

Continue their education programs in engineering & interdisciplinary areas to emerge as researchers, experts, educators & entrepreneurs for professional development and life-long learning.

S.No.

Program Specific Outcomes

PSO1

An ability of a graduate to use their knowledge in the analysis and design of civil infrastructure projects with the subjects like structural, transportation, soil, environmental and water resources engineering etc

PSO2

An ability of a graduate to use execute the projects with the knowledge of managerial principals and financial implication with the subjects like Construction management, Estimation and Costing,Survey,MEFA etc

PSO3

An ability of a graduate to Amalgate technical, co-curricular and soft skills training so that students can face and succeed in competitive examinations like GATE, GRE, TOFEL, GMAT etc.

EEE

S.No

Program Educational Objectives

PEO1

To produce graduates with strong foundation in basic sciences, mathematics and prepare them with technical competency with emphasis on team work in the electrical engineering areas for both private and public sectors.

PEO2

To be able to apply managerial qualities and technical comperance to solve challenging assignments.

PEO3

To create capability to plan, estimate and execute live engineering projects and also new product development.

PEO4

To produce graduates with good foundation in multidisciplinary fields and train the students for identifying, analyzing and creating current engineering techniques as well as skills and tools to develop novel product solutions and simulation for the real life problems.

S.No

Program Specific Outcomes

PSO1

To be able to apply modern techniques and tools to solve the problems related to electrical and electronic applications.

PSO2

To be able to analyse and conduct investigations on complex engineering activities to arrive at valid conclusions.

PSO3

To have expertise on communication on research projects, design documentation and seminars to the knowledgeable engineering community, and also understand the complex problems presented by experts.

ME

S.No

Program Educational Objectives

PEO1

A fundamental understanding of the basic engineering sciences, develop mathematical and analytical skills required for Mechanical Engineering.

PEO2

Ability to provide Product engineering designs that are based on sound principles considering functionality, aesthetics, safety, cost effectiveness and sustainability.

PEO3

Capability to function ethically as mechanical engineers and exhibit good competency in their work culture.

PEO4

Impetus to take up lifelong learning by being active members of professional bodies like SAE, ASME etc. Obtain professional licenses and to undertake higher studies and research activities that will ultimately benefit mankind.

S.No

Program Specific Outcomes

PSO1

Knowledgeable in deep fundamentals of core mechanical

engineering subjects which enable them to innovate, design, maintain and manufacture any mechanical products with confidence.

PSO2

Capability to utilize the latest mechanical engineering software tools in their chosen design and development problems of the real world applications.

PSO3

Possesses an aptitude to serve the society with zeal and enthusiasm in the field of mechanical engineering in any capacity keeping in mind the sustainable growth.

ECE

S.No

Program Educational Objectives

PEO1

To prepare the students to fit into any industry, associated with designing, developing and manufacture of hardware and software products based on state of art technologies, make them competent for pursuing higher studies in the field of Electronics and Communication Engineering.

PEO2

To enrich the students with sound mathematical, scientific and engineering fundamentals required to solve engineering problems and also to pursue higher studies.

PEO3

To develop analytical skills in the students for design validation.

PEO4

To continuously strive to create an environment in the department that enriches the students with qualities like professionalism, communication and team work skills, ethical

values, and sense of responsibility towards the Society.

S.No

Program Specific Outcomes

PSO1

Professional Capabilities : Capability to use their knowledge in the design of Electronics and communication system using techniques like signal processing and technologies such as VLSI and Embedded systems.

PSO2

Analytical skills :Capability to analyze a given system and/or design for its specification based performance and to devise any design changes for performance improvement, if need be.

PSO3

Responsible Professionalism:Capability to work within the constraints as obtained in a workplace and/or within a team, with an objective to further the goals of the employer, establishment or self owned one.

CSE

S.No

Program Educational Objectives

PEO1

To apply engineering processes and practices to software and hardware systems skillfully and efficiently.

PEO2

Ability to understand and analyze engineering issues in a broader prospective with ethical responsibility.

PEO3

To prepare students to fit into any industry associated with developing and implementation of software products or technologies.

PEO4

To equip the graduates with ability to analyze, design and test the novel products.

S.No

Program Specific Outcomes

PSO1

Proficiency skill : Potential to understand, Implement and conduct research in various sub domains of Computer Science & Engineering.

PSO2

Analytical skills : Capability to apply theoretical knowledge to practical implementation for a quality product.

PSO3

Successful Career and Entrepreneurship: Preparedness to adopt new technology with unprecedented ideas to be a successful entrepreneur besides a zeal towards higher studies.

IT

S.No.

Program Educational Objectives

PEO1

To possess the fundamental knowledge, theoretical background and technical skills to lead a successful career to meet the diversified needs of industry, academia.

PEO2

Exhibit intellectual analysis for problem solving to create software products with effective coordination and communication skills to meet industry needs.

PEO3

Exhibit professionalism, ethics, social awareness and agility for continuous improvement.

S.No.

Program Specific Outcomes

PSO1

The ability to understand, analyze and develop computer programs in the areas related to algorithms, application development, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.

PSO2

The ability to apply standard practices and strategies in software project development using emerging technologies to deliver a quality product for software industry needs.

PSO3

The ability to handle advanced programming languages, environments, and platforms in creating innovative career paths to be an entrepreneur, and a zest for higher studies.

MBA

S.No

Program Educational Objectives (PEOs):

PEO1

Impart fundamental education to students in Business Management core & allied subjects to develop them as full-fledged management knowledge through strong communication and

entrepreneurial skills for the society.

PEO2

To train the students so that they can work and contribute to the management development projects being undertaken by Government, private or any other sector companies.

PEO3

Continue their education programs in business Management & interdisciplinary areas to emerge as researchers, experts, educators & entrepreneurs for professional development and life-long learning.

PEO4

To perform their/duties efficiently, effectively and ethically at individual level and also at group level in a multidisciplinary team, contributing to the welfare of the society.

S.No

  Program Specific Outcome

PSO1

Core Courses: To work successfully as a Management Graduate with requisite skill set in the field of Marketing, Finance and Human resource domain. To Transmit knowledge gained from the Summer Internship Project (eight weeks) in the industry as per the requirement of the concerned organization.

PSO2

Specialized Courses: Specialized Courses: To educate students with proficiency in the specific area of specialization in Business Administration and help them to show their competency in understanding of Marketing, Finance and Human resources and how to make an effective work force in the industry with the required Skills.

PSO3

Professional Management Training: Recognize the importance of professional development by pursuing post graduate studies, competitive examinations, certification courses that offer challenging and rewarding careers in management.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://www.smec.ac.in//Departmentssidebar/computerPeo

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

7

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

22

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	View File
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

67

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	**No File Uploaded**
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

73

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	**No File Uploaded**
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

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

In order to combine the cross cutting issues like gender sensitization, Environment Sustainability, Human Values and Professional Ethics, at SMEC, students are nurtured to develop other attributes, like gender equity and sustainability at academics.

The institution is following JNTUH curriculum. The efforts made by the Institution to integrate the cross cutting issues are:

- **Gender Sensitization**
- **Environment Sustainability**
- **Human Values and Professional Ethics**

Gender Sensitization:

The institution has a responsibility to build gender sensitivity among the students and staff. The value of gender equity needs to be integrated in the learning process through curriculum. Besides, the JNTUH has introduced a course 'Gender Sensitization' in the curriculum of B.Tech education. Through which students can know the equality of men and women in society. Equal opportunities are given to both the genders in terms of admissions, employment, training programs, sports activities etc., so that gender issues do not arise. Management encourages all the faculty and students to participate in events focusing on women empowerment. Women empowerment cell also take part in the conduction of special lectures on gender related topics on various occasions. Girls and boys participate in various co-curricular activities, group discussions and technical quiz programs. Workshops and seminars related to women's empowerment and sexual harassment are being conducted in college. College supports women faculty and students to become member in forums and encourages them to participate in events focusing on women empowerment and promoting leadership qualities in women

Environment Sustainability:

At present, we are living in a well-developed technological world. Technology has constructive results as well as adverse impact on our environment. There is an immense need to create awareness among the stakeholders regarding the need to sustain and preserve environment and make technology go hand in hand with the ecology rather than hamper it. As per JNTUH curriculum, the institution conducts quiz and debates during the National Science Day, and organises programs like Swachh Bharat and Haritha Haram for improving the awareness of environment. At SMEC, we also donate thousands of plants to the people. Students are taken for industrial visits at water treatment plants and other such places that can educate them well on environmental issues. Some awareness programs are also initiated by NSS with extensively carried out activities to support environmental protection and ecological preservation. Eco Club conducts Awareness programs such as 'say no to plastic', 'walk more drive less' and 'save earth'.

Human Values and Professional Ethics:

We are undoubtedly living in a developed world. Modern

technologies are affecting human values and professional ethics. Hence JNTUH has introduced a subject titled 'Human Values and Professional Ethics' for B.Tech students, so that they can imbibe and practice human values. Professional ethics is defined as the personal and corporate rules that govern behavior within the context of a particular profession. In this direction, the instituon conducts various activities and programs to build value systems, professional ethics, good citizenry skills and the sense of being honest and practice equity, equality and nurture respect for each other.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

15

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

2120

File Description	Documents
List of students enrolled	View File
Any additional information	No File Uploaded

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

936

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	[View File](#)
Any additional information	**No File Uploaded**

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	**A. All 4 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	https://smec.ac.in//Academics/anlysis
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	**No File Uploaded**
Any additional information	**No File Uploaded**

1.4.2 - The feedback system of the Institution comprises the following	**A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	https://smec.ac.in//Academics/anlysis
Any additional information	**No File Uploaded**

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

986

File Description	Documents
Any additional information	**No File Uploaded**
Institutional data in prescribed format	<u>View File</u>

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

620

File Description	Documents
Any additional information	**No File Uploaded**
Number of seats filled against seats reserved (Data Template)	<u>View File</u>

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Assessment of learning levels

The students are divided into two categories – slow learners and advanced learners. The criterion for categorizing into slow learners and Advanced Learners is given below:

Entry level

- **The college organizes a 21-day Induction Program for the new incoming batch students every year.**
- **The program helps the students to get familiar with the Institution, curricular and co-curricular activities, facilities, rules and regulations of the University and Institution.**
- **Training on communication skills, personality development, time management and motivational sessions are also given.**
- **A special test is conducted for the first year students after admission and categorized as under:**
- **Slow Learners: Less than 20 marks out of 50 marks.**
- **Advanced Learners: Above 20 out of 50 marks.**

II/III/IV Year Students

As per the Mid (Internal) exam conducted for the II/III/IV year students, they are categorized as under:

- Slow Learners: Less than 14 marks out of 25 marks (As per JNTUH) and Less than 16 Marks out of 30 marks (Autonomous)
- Advanced Learners: Above 14 marks out of 25 marks(As per JNTUH) Above 16 Marks out of 30 marks (Autonomous)
- Special Programs for Slow learners:
- After identifying the slow learners, the list of slow learners is sent to the Principal for approval to conduct the following programs beyond college hours.
- Remedial classes are conducted beyond the college hours (i.e. 3:50 pm to 4:30 pm)
- Learning material prepared by subject handling faculty members is verified by the expert committee and uploaded in the portal regularly for student's reference.
- Weekly Test /Slip Test
- Classroom Interactions
- Group Discussion
- Brainstorming Sessions
- We practice an 'Education Triangle' which makes a relationship that exists between parents, teachers and students. This partnership must be strong, focused and positive to support the student learning system.
- Frequent meetings are organized with the parents of the slow learners. The respective faculty members and the HoD discusses on their performance.

Special Programs for Advanced Learners:

- Advanced Learners are identified on the basis of internal assessment
- Students are encouraged to be members of professional bodies like IEI, IEEE, ISTE, CSI, ACM, IETE, ISTE, SAE, and IWE under which various technical events are organized
- Various clubs/Technical associations like STAC, BETA, ECTA, TAIT, and META are formed for conducting various activities.
- Aptitude and soft skills training to crack the interviews for placements
- Students are encouraged to take up micro projects at the entry level and Innovative projects at higher levels under Incubation center and also evaluate them

by organizing Project Expo.
- Some of the innovative thoughts of the latest technology such as:
  - 3D printer
  - Compressed Air Car
  - Drone fertilizer in Agriculture Student Kiosk system
  - Library Kiosk Power Spy Software Air Car
  - Seed Sowing Machine
  - Agriculture Field Motor Control using GSM
  - Fully Automated Metro Train
  - Linear Induction Motor
  - Theoretical Analysis of Electromagnetic Model of a Transformer for Detection of Faults by using Frequency Response Analysis
  - Micro Chef
- Bright and diligent students are motivated and inspired to get University ranks.
- Students are encouraged to take up competitive exams like GATE, GRE, TOEFL, IELTS, CAT, PGCET etc.

Students are also deputed in to various college level committees to enhance their skill and actively participate in the activities

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	NA

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/09/2020	3880	317

File Description	Documents
Upload any additional information	View File

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:

The college focuses on imparting technical knowledge which enhances critical thinking and gives scope for creative imagination among students so that when they grow up they become responsible citizen of the country. The Institute follows the student centric methods that are used for enhancing the learning experiences of students to implement Outcome Based Education (OBE) such as

- Experiential learning
- Participative learning and
- Problem solving methodologies

Experiential Learning:

The students are provided with the following types of learning mechanisms to improve experiential performance

- Additional Lab Experiments / Content Beyond Syllabus

The students are taught to practically test the concepts that they theoretically learnt in the classroom. This enhances their practical knowledge as well as tests the concepts acquired by them. As an affiliated institution the programmes are bound to follow the curriculum set by the university. It is necessary to identify the curricular gaps and take measures to bridge it by supplementing the curriculum with content beyond syllabus. Students are given time slots to do additional experimental work with the assistance of the highly qualified staff.

- Library E-Resources

Library is committed to providing quality service and an excellent collection of materials to support the mission, goals, educational, and research needs of students, staff, faculty, and administration, users and in support of the College's diverse curriculum. A Timetable is allocated in Institution academic calendar for the students to access the library during college hours. Laboratories with Internet Connection permit the students to widen their knowledge and skills. The Online E- Resources such as digital library, E-Journals like IEEE, ASME, ASCE, J-Gate, Delnet are accessible to the students to widen their knowledge and skills via a local IP and public IP.

- **Industrial Visits**

Two industrial visits per year are planned to provide industrial exposure and hands on experience with practical implementation on the latest technologies which empower the students to meet the industry requirements.

- **Student Internships**

Students are also encouraged to undergo internships during academic semester breaks in relevant industries. This allows them to gain practical experience of the technology and environment which enhances their career skills

All the class rooms are provided with LCD projectors to make lecture sessions more interactive and easy understanding.

Participative Learning:

The students are allowed to participate in the various activities organized by the institution

- **Placement Related Learning**

Placement training is important for engineering students to enhance their employability skills and achieve good placement in various Industries. To enhance the placement skills, the institution organizes the following activities such as Aptitude classes, Soft skill classes (Group discussion and personality development classes) are included in the regular time table.

- **Technical Activities**

The Institution organizes various technical activities to enhance the learning skills of students

- Workshops
- Seminars Guest lectures
- TECHNOSMEC Events
- TAM Activities
- Session Quiz.

Problem solving methodologies:

- **Tutorial Classes**

Tutorial hours were included in the academic time table for subjects that include problem solving. During this hour, extra problems from various units and from previous years question paper were solved.

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional Information	https://www.smec.ac.in//Library

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Programe Name Numbers of teachers on Roll Numbers of teachers using ICT (LMS, e-Resources) ICT Tools and resources available Number of ICT enabled classrooms Number of smart class rooms E-resources and techniques used CE 29 29 E-Learning 8 1 Outside Resources 1. Tripod 1.Swayam courses 2. Camera 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1. LCD Projectors 5. Moodles 2. Laptop with Wifi Connections 6.Coursera 3. Computers 7.Udemy 4. IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1. Smart Boards 2.E-resources 2. You Tube Videos 3.Spoken tutorials 3. Podium with Inbuilt PA System 4.e-Notes 4. Internet connectivity 5. Smart board 5. National Digital Library 6. NPTEL LINK 6. Moodles Tools and Software 7. Digital Language Lab 1.Virtual Lab   Techniques used 1.Internet connectivity 2.Tripod 3.Camera EEE 17 17 E-Learning 3 1 Outside Resources 1.Tripod 1.Swayam courses 2.Camera 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1.   LCD Projectors 5. Moodles 2.   Laptop with Wifi Connections 6.Coursera 3.   Computers 7.Udemy 4.   IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1.   Smart Boards 2.E-resources 2.   You Tube Videos 3.Spoken tutorials 3. Podium with Inbuilt PA System 4.e-Notes 4.   Internet connectivity 5. Smart board 5.   National Digital Library 6. NPTEL LINK 6.   Moodles Tools and Software 7. Digital Language Lab 1.Virtual Lab   Techniques used 1.Internet connectivity 2.Tripod 3.Camera ME 41 41 E-

Learning 9 1 Outside Resources 1. Tripod   2. Camera 1.Swayam courses 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1. LCD Projectors 5. Moodles 2. Laptop with Wifi Connections 6.Coursera 3. Computers 7.Udemy 4. IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1. Smart Boards 2.E-resources 2. You Tube Videos 3.Spoken tutorials 3. Podium with Inbuilt PA System 4.e-Notes 4. Internet connectivity 5. Smart board 5. National Digital Library 6. NPTEL LINK 6. Moodles Tools and Software 7. Digital Language Lab 1.Virtual Lab Techniques used 1.Internet connectivity   2.Tripod   3.Camera ECE 60 60 E-Learning 12 1 Outside Resources 1. Tripod   2. Camera 1.Swayam courses 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1. LCD Projectors 5. Moodles 2. Laptop with Wifi Connections 6.Coursera 3. Computers 7.Udemy 4. IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1. Smart Boards 2.E-resources 2. You Tube Videos 3.Spoken tutorials 3. Podium with Inbuilt PA System 4.e-Notes 4. Internet connectivity 5. Smart board 5. National Digital Library 6. NPTEL LINK 6. Moodles Tools and Software 7. Digital Language Lab 1.Virtual Lab Techniques used 1.Internet connectivity   2.Tripod   3.Camera   4. Microsoft Teams CSE 65 65 E-Learning 12 1 Outside Resources 1. Tripod 2. Camera 1.Swayam courses 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1. LCD Projectors 5. Moodles 2. Laptop with Wifi Connections 6.Coursera 3. Computers 7.Udemy 4. IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1. Smart Boards 2.E-resources 2. You Tube Videos 3.Spoken tutorials 3. Podium with Inbuilt PA System 4.e-Notes 4. Internet connectivity 5. Smart board 5. National Digital Library 6. NPTEL LINK 6. Moodles Tools and Software 7. Digital Language Lab 1.Virtual Lab 2. Microsoft Teams Techniques used 1.Internet connectivity 2.Tripod 3.Camera IT 18 18 E-Learning 3 1 Outside Resources 1. Tripod 2. Camera 1.Swayam courses 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1. LCD Projectors 5. Moodles 2. Laptop with Wifi Connections 6.Coursera 3. Computers 7.Udemy 4. IRIS Institutional Resources Smart class rooms with audio visual facility

1.Faculty Video Lectures 1. Smart Boards 2.E-resources 2. You Tube Videos 3.Spoken tutorials 3. Podium with Inbuilt PA System 4.e-Notes 4. Internet connectivity 5. Smart board 5. National Digital Library 6. NPTEL LINK 6. Moodles Tools and Software 7. Digital Language Lab 1.Virtual Lab Techniques used 1.Internet connectivity 2.Tripod 3.Camera S&H 62 62 E-Learning 18 1 Outside Resources 1.Tripod 1.Swayam courses 2.Camera 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1.   LCD Projectors 5. Moodles 2.   Laptop with Wifi Connections 6.Coursera 3.   Computers 7.Udemy 4.   IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1.   Smart Boards 2.E-resources 2.   You Tube Videos 3.Spoken tutorials 3. Podium with Inbuilt PA System 4.e-Notes 4.   Internet connectivity 5. Smart board 5.   National Digital Library 6. NPTEL LINK 6.   Moodles Tools and Software 7. Digital Language Lab 1.Virtual Lab Techniques used 1.Internet connectivity 2.Tripod 3.Camera MBA 62 62 E-Learning 4 1 Outside Resources 1.Tripod 1.Swayam courses 2.Camera 3. Computers 2.You Tube Videos 4. Internet Connectivity 3.National Digital Library Class rooms with LCD projectors 4.Online Audio Video Lectures 1.   LCD Projectors 5. Moodles 2.   Laptop with Wifi Connections 6.Coursera 3.   Computers 7.Udemy 4.   IRIS Institutional Resources Smart class rooms with audio visual facility 1.Faculty Video Lectures 1.   Smart Boards 2.E-resources 2.   You Tube Videos 3.Spoken tutorials 3.   Podium with Inbuilt PA System 4.e-Notes 4.   Internet connectivity 5. Smart board 5.   National Digital Library 6. NPTEL LINK 6.   Moodles Tools and Software 7. Digital Language Lab 1.Virtual Lab Techniques used 1.Internet connectivity 2.Tripod 3.Camera

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://www.smec.ac.in//Facilities/auditoriumSeminarhall
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

204

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	**No File Uploaded**

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Preparation and Adherence of Academic Calendar:

SMEC has a very robust process for the preparation and adherence of the Academic calendar. The institution prepares the academic calendar every year in advance. The coverage of the academic calendar covers the list of examination dates, seminars, conferences, guest lectures, workshops and industrial visits holidays, vacation dates, festivals, etc. The academic calendar provides the total effective working days available in a given semester.

Then based on the calendar, the HOD's in consultation with the Principal prepare the timetable by correlating the working days available and coverage of the curriculum of the subjects. Thus the academic calendar monitors the effective delivery of the program with academic inputs. The calendar is made available to the students before the commencement of classwork. The academic calendar is displayed on all the department notice boards and is made available on the website. The academic activities within the institution are strictly adhering to the calendar events. All the examinations are being conducted as per the Academic Calendar.

Preparation and Adherence of Teaching Plan:

The subject allocation is done by the Principal in consultation with the HOD's and College level timetable coordinator. After the allocation, the concerned faculties prepare Course Outline which is a comprehensive document in the prescribed format before the commencement of the Classwork every semester. The academic plan structure is

prepared to adhere the needs of Outcome-Based Education.

The contents of the plan include:

Syllabus & No. of Credits

- COs, POs, PSOs & PEOs
- Course Description Form and Course Assessment Form (OBE Format)
- Session Planner / Syllabus Coverage & Unit Completion Date
- Timetable of the Class & Self
- Student list, Parent and Student Communication Details (Mobile No., Address & E-Mail ID of parents& Students)
- Material to be Ordered Unit Wise
    - a) Class notes - as per SOP (Hard copy& Soft copy) (Note: Minimum 30 papers per Unit)
    - b) Application of Bloom's Taxonomy
    - c) Twenty Objective Bits with Answer
    - d) Two Assignment Questions per Unit along with Sample Assignments
    - e) Three Tutorial Questions per Unit with Answers
    - f) Exam Questions Unit Wise
- Student Seminar Topics
- Massive Open Online Courses (MOOCs)
- Two Micro Projects (I Year) / Mini Projects (II, III & IV Year)
- Mid-Term Test Question Papers, Quality and Scheme of Evaluation along with marks
- List of Weak Students & Remedial Action
- Target for University Result
- Activity based Learning
- Last Five Years University Question Papers
- Student Attendance Register
- Content Beyond Syllabus
- Eminent Professors Blogs/Websites/MOOCs/NPTEL/Journals & E-Links
- List of Text Books used
- Pre-Delivery Presentations & Approvals

The Principal assigns Dean (Academics) to check the progress of each unit of the course and ensure timely and effective completion of the course in the specified time frame with the perfect blend of practical and theoretical inputs. As per the

academic calendar specific time will be allotted for completion of each unit in the course. Adherence to the academic plan is followed by the faculty and details are recorded in the Academic Audit Report by the IQAC Coordinator and team periodically on a weekly basis. These audit reports of each program are then submitted to the IQAC for record and documentation. The copies of the same are maintained in the Course files with the Faculty.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

317

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	No File Uploaded
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

39

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	No File Uploaded

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

7

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	**No File Uploaded**

2.5 - Evaluation Process and Reforms

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

Nil

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	**No File Uploaded**

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

00

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	**No File Uploaded**
Upload any additional information	**No File Uploaded**

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Exam Management System

St. Martin's Engineering College has well-defined processes to evaluate the performance of its students through its

integrated software platform the SMEC-EMS. SMEC has also adopted the Outcome-Based Education (OBE) philosophy and has been implementing the same in all assessment components, using appropriate revised Bloom's Taxonomy in all the examinations.

SMEC has adopted formative and summative assessments namely:

- Continuous Internal Assessment (CIA)
- End Term Examinations (ET)

Continuous Internal Assessment (CIA)

The Institute follows a pattern of 30 marks for internal evaluation and 70 marks for the final examination. The Internal components comprise Midterm and assignments, micro projects. Two midterm Examinations will be conducted per semester. The avg marks of two midterm examinations in each course is awarded to students.

Examination Process

SMEC has a robust and effective examination in process. The Mid-term examinations are conducted centrally by the examination department for all Programs as per the Academic calendar. As far as the CIA components are concerned, the Faculty members conduct it during the course of the semester. All internal question papers are set by the college faculty by mapping CO's in adherence with Blooms taxonomy and the end Term examination question papers are from the university(JNTUH). When it comes to Autonomous , the end exam question papers are set by external experts from top most reputed universities and colleges all around the country.

Mid-Term Evaluation

The midterm question paper carries both subjective and objective type question papers. The subjective question paper contains - marks and the objective paper carries – marks. The duration of the examination is 1 hour and 20 minutes.

End Term Evaluation

SMEC Autonomous end exam consists of

The End term examination question paper comprise descriptive

questions for 14 marks.

Examination Management System (EMS)

St.Martin's Engineering College (SMEC) is developed its won examination management system called SMEC-EMS.The SMEC-EMS(in collaboration with Bees Software) assists the examinations department in all its operational activities. these activities can be categorized as follows:

Pre-Examination Process

The pre-examination procedures like Time Tables, Preparation of Barcoded answer booklets, Seating Plans, Invigilator duties, D form generation are automated and managed by SMEC-EMS.

Evaluation Process

St.Martin's Engineering College (SMEC) follows online evaluation system. All the evaluation system is unbiased and transparent.

Post Examination Process

The generation of marks memos, Provisional Certificates, and Consolidated Marks Memo is prepared by considering security features. All other related information like evaluation reports, generating hall tickets, transcript printing, attendance reports are integrated into the EMS. The Provisional certificates and the Convocation degree are also being generated by the SMEC-EMS.

Reforms initiated in the Examination processes

- SMEC has strictly adopted the Outcome-based education (OBE) philosophy
- Question paper is thoroughly scrutinized to ensure the standard, spread of the syllabus and mapping of COs, and following BLOOMS taxonomy.
- All questions in the Internal and end-term examinations have been mapped to Course Outcomes
- Course attainment & Program attainment have been initiated manually but will be integrated with SMEC-EMS in due course of time.
- Due to the integration with SMEC-EMS, the evaluation

system is unbiased and transparent

- To ensure uniformity and integrity SMEC - EMS has been adopted everywhere.

Positive impact following IT Integration

- The efforts taken have resulted in the smooth and successful conduction of the examination as per the schedule prepared
- Integration of SMEC- EMS has enhanced the quality of functioning of the section and has resulted in unbiased evaluation.
- The adoption of OBE and Revised Blooms Taxonomy has resulted in the improvement of the student academic standards both at teaching and evaluation stages.
- This has resulted in the mapping of COs with POs effectively
- Introduction to an online examination portal has resulted in unbiased and transparency is achieved.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	https://www.smec.ac.in//Examinationnotifications/examinationsau

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Preparation and Dissemination of Program Outcomes, Program Specific Outcomes and Course Outcomes

- Outcome Based Education (OBE) is implemented in St.Martin's Engineering College (SMEC) to give emphasis on what is expected from the students when they finish their course in the form of Course Outcomes
- In line with Course Outcomes, Program Specific Outcomes (PSOs) and Program Outcomes (POs) are then attained to measure the performance of the students
- This OBE is mandatory in all regulating bodies like NBA, NAAC and other Accreditation Committees
- A set of Program Outcomes are given by the AICTE to be

followed by all the institutions

- Keeping all the Program Outcomes in mind every department prepares its Program Specific Outcomes
- Based on the Program Outcomes and Program Specific Outcomes, the faculty of all departments then prepares the Course Outcomes for all the courses offered by the University.

Procedure for preparation of Program Specific Outcomes and Course Outcomes

- Every Department of the Institution states its Program Specific Outcomes (PSOs) specific to its department with respect to Program Outcomes (POs) given by AICTE
- PSOs are prepared and decided by the Department Advisory Committee along with the Head of the Department
- Course outcomes are direct statements that describe the essential and enduring disciplinary knowledge and abilities that students should possess and the depth of learning that is expected upon completion of a course
- For the same reason a meeting is scheduled in the beginning of the semester wherein Department
- Academic Committee (DAC) decides the course coordinators for various courses and instructs them to prepare five COs of their courses
- The course coordinators then prepare the COs along with the other instructors of the same course in reference with course outcomes specified in the syllabus copy provided by the University
- After which all the COs of all the courses are verified and finalized by the DAC
- Finally, the PSOs and COs are approved by HODs, IQAC and the Head of the Institution
- After finalization of all the POs, PSOs and COs they are then disseminated to all the students and faculty members

Mechanism for Communicating Program Outcomes, Program Specific Outcomes and Course Outcomes to Teachers and Students

- Every Department of the Institution publishes its Program Specific Outcomes (PSOs) along with the Program Outcomes (POs) given by AICTE and Course Outcomes (COs) of all its courses in the college website (SMEC-

Educational Objectives &Outcomes).

- POs and PSOs are displayed in Staff rooms, Offices of Heads of Departments , all the classrooms, corridors and laboratories
- CO is displayed in display boards of laboratories and students are made to write the COs in their class notebooks of the respective course.
- Students and staff are made aware of these through various meetings, classroom teaching, lab experiment, and interaction sessions.
- Program Outcomes (POs) and Program specific Outcomes (PSOs) are discussed in student induction program, to get clear idea of what they are going to learn

The course outcomes are also communicated to students through Internal and Assignment question papers wherein every question is provided with the CO it belongs to Concern

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	NA

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Response:

The procedure for evaluating the attainments of Program Outcomes, Program Specific Outcomes and Course Outcomes

The attainment of Program Outcomes and Program Specific Outcomes is evaluated by taking 80 % of the Direct Assessment and 20 % of the Indirect Assessment. Whereas the Course Outcomes are evaluated based on Direct Assessment only.

 Procedure for Attainment through Direct Assessment (80%):

- A meeting is conducted in the individual departments where faculty are requested to map the relation between the Course Outcomes (COs) and Program Outcomes

(POs)/Program Specific Outcomes (PSOs) based on the below given conditions: If the concept of CO is matched

- 80% or more with the concept of PO's (or) PSO's, it's mentioned as level 3 (Highly Related)
- In between 60% to 80% with the concept of PO's (or) PSO's, it's mentioned as level 2 (Moderately Related)
- Less than 60% with the concept of PO's (or) PSO's, it's mentioned as level 1 (Slightly Related)

- Direct Assessment Tools:

Internal Assessment (Conducted at Institution Level for 25 marks)-

Internal assessment consists of the following three components:

1.   It contributes 5 marks

2.   It contributes 10 marks

3.   It Contributes 10 Marks

This examination is conducted twice in a semester to assess student's knowledge in the various subjects studied in the respective semester

University Examination (Conducted at University Level for 75 marks):

This examination is conducted at the end of the semester for assessing the student's knowledge in the various subjects that he or she studied during the entire semester

Internal assessment and University Examination results serve as an input for calculating attainments of all the outcomes.

Steps for Calculation of Attainment:

- A threshold is set to assess the students performance based on the result of previous academic year for the same subject (Suppose threshold calculated is 60%)
- Total marks from each tool is calculated (consider Total as R1) Calculate no. of students attempted the exam (Consider it as R2) Calculate Average marks using [Average Marks R3=R1/R2]

- **Next find target % of students on or above threshold -(R4=R2*0.60) Find no. of students scored 60% and above (Consider it as R5)**
- **Finally get actual % of students on or above threshold (R6=(R5/R2)*100) Attainment obtained by- (R7=(R5/R4)*3)**
    - **If attainment >= 3, level is marked as 3 and**
    - **If attainment < 3, same value is marked as the obtained attainment**
- **Now based on the questions mapped to COs calculate the average attainment of each CO and**
- **Average attainment of all five COs gives the overall CO attainment.**
- **Course Outcomes we take a weight of average 25% of the internal marks and 75% of the external marks**

Procedure for Attainment through Indirect Assessment (20%):

- **This indirect assessment contains feedback from various stakeholders such as alumni, parents, students, faculty and employer along with survey.**
- **Based on the feedback collected in a scale of 5 which is then converted to scale of 3 to match with the Direct Assessment.**

The final PO and PSO attainment are calculated by adding 80% of Direct Assessment and 20% of Indirect Assessment.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	NA

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

748

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	https://www.smec.ac.in//Examinationnotifications/examinations

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://www.smec.ac.in//Academics/iqacsss

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

St. Martin's Engineering College (SMEC) strongly believes and is driven by the adage "a teacher is a perpetual learner". Accordingly, college encourages its teachers and students to carryout research in their respective areas. To succeed in their endeavors, college provides all the necessary infrastructural facilities, financial support and conductive environment to carryout research.

Each department has separate incubation centre for producing startups and commercializing the startups

S. No.

Name of Department

Name of Incubation Centre

1

Electrical and Electronics Engineering

EEE-Tesla Pre-Incubation Unit

2

Information Technology

IT-IOT Pre Incubation Unit

3

Mechanical Engineering

Mech- APJ Abdul Kalam Incubation Center

4

Computer Science and Engineering

CSE- IoT Pre-Incubation Unit

5

Civil Engineering

Civil- Mohrs Pre- Incubation Unit

6

Electronics and Communication Engineering

ECE- Frontline Electronic Engineers incubation Unit

7

Masters of Business Administration

MBA- F.W. Taylor Pre- Incubation Unit

St. Martin's Engineering College inculcated quality of student projects as best practice. All the Departments of SMEC insists to the students to do their project, from first year in the form of micro project. When students come to the second, third & fourth year, each and every student has to complete mini project. When they enter to fourth year they

are instructed to undergo a major project Phase I & II.

All the departments encourage the students to do micro, mini and major projects to enhance their technical skills and practical exposure.

Micro Projects: Micro projects are intend to increase the innovative idea for I year students and improves understanding capability and experience for team represented groups. The ambition is on the one side that members who have been involved in micro projects as members. On the other side, micro project might compliment main projects.

Mini Projects: The Department of SMEC is focusing on mini projects for II & III year students. The objective of the mini project is to allow the students to explore the knowledge and their research ideas.

Major Projects: The final year students are focusing on major projects in I & II semester. The main objective of major project includes the theoretical concepts and practical design and implementation of experiments. They use their analytical skills and innovative ideas as per industry requirements to carry of the project. Many Software/Hardware industries observe students from academic institutions who are good at analytical skills and capable of doing project working in groups with good intra-personal communication skills. A good project work being an essential part of the curriculum of the engineering management student provides an opportunity for them to get them observed in reputed industries.

SMEC has Drillbit Plagarsim checker for analysing the plagarism all UG thesis and also this software is used by the faculty to check the plagarsim of their research articles.

Faculty members are motivated to submit the project proposals at the beginning of every academic year, to render a shape to their innovative idea. All the proposals are scrutinized department wise and feasible proposals are approved by granting requested budget. They are further encouraged to apply for research grants to procure necessary materials and equipment to various funding agencies like UGC, AICTE, DST, SERB etc. The facilities to conduct the research is continuously procured either through seed money in the name of internal R & D or through funded agencies. The equipment

and other facilities to conduct research by faculty of
engineering are available in Material testing laboratory
(ME), Water Environment and Land center (CE), Tesla Smart
applications laboratory (ECE), and Power systems laboratory
(EEE). They act as platforms to conduct research activities
by the faculty and the students in the form of project works.
Efforts are under progress to augment the research facilities
further according to the needs of stakeholders. College has
a policy to promote research activity in the form of internal
R & D and necessary incentives are granted to the entire
faculty to pursue Ph.D. It also felicitates faculty who
acquires Ph.D. by additional incentives. It also allows
faculty to visit industries, research centers, conferences
and symposiums, either to enhance their interaction with
external world or to know latest trends in technology or to
get ideas from them.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	[View File](#)
Provide URL of policy document on promotion of research uploaded on the website	https://smec.ac.in//research/research
Any additional information	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

860700

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	**No File Uploaded**
Any additional information	**No File Uploaded**

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

48

File Description	Documents
e-copies of the award letters of the teachers	**No File Uploaded**
List of teachers and details of their international fellowship(s)	View File
Any additional information	**No File Uploaded**

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

32.76

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	**No File Uploaded**

3.2.2 - Number of teachers having research projects during the year

11

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://www.smec.ac.in//research/Pconsultancy
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

2

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	No File Uploaded
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

6

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://www.smec.ac.in//research/Pconsultancy
Any additional information	No File Uploaded

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

Innovation Ecosystem

Science and Engineering Research Board, Government of India, Government of Telengana, industrialists from Hyderabad, SMEC Faculty and students nurture innovation ecosystems, to systematically cultivate research environments with following functions and facilities. These functions are facilitated by different organs, Incubation centre, Entrepreneurship Development Cell, Startup (Srishti), Intellectual Property Right Cell, forged under R& D cell (Avishkar).

Facilities in SMEC

Software used for research CATIA, Hyper works ANSYS. Metallurgical microscope equipped with microscope camera and metallurgical image analysis software Stand Pro for designing of building, bridges and roads, CAD, Arc GISKeil software for designing and developing embedded system GNU/JDK 1.8,

Netbeans, J2EE, Latex, GNU/Ubuntu Operating Open office, GCC, Filezilla, GNU/Ubuntu Operating System, GCC, Weka, R-language, GNU/Ubuntu Operating System, GCC, Android studio, GNU/Ubuntu Operating System, GCC, Arduino, Raspberry-pi.

R& D Cell

 The Institute has a dedicated Research and Development Cell named as Aavishkar, established in 2013. R & D cell functions with its ally Incubation Center, EDC, IPR Cell, and Start-up with departmental labs. The quality of research publications is maintained using Plagiarism Checker X (Business) software.Total number of Research and consultancy projects in R& D is 32. The research project on "High Temperature Formability of Titanium alloy" sanctioned from Science and Engineering Research Board,

Govt. of India is carried out for developing technology to produce Aeronautical products.

Entrepreneurship Development Cell

Entrepreneurship Development Cell aims for the overall development of the Entrepreneurial skills and abilities among the student fraternity. Awareness program, Seminars, Skill development program has been organized under the Cell. Mr. Varun Kumar, a distinguished alumnus of the College has emerged as an entrepreneur for Food chain restaurants and another alumnus Mr. Rajanikant has established himself

as entrepreneur in interior designing.

Start -up (Srishti):

A student of the College by name Mr.Ajay Jacob, of ECE has won the Startup India 2018 competition and got success in the development of a Business Plan and became the founder of FITZFA.

Ms. J.K.Sandhya Kiran faculty of the Civil Engineering Department and the student Ms. D.Roshita has emerged as the runners up in Startup India 2020.

Intellectual Property Right Cell

SMEC has an IPR cell which guards Intellectual property rights of incubates, faculty and students and disseminating the knowledge on IPR by conducting lectures and seminars.

Incubation Centre

The Incubation Centre has well-furnished and well equipped space, high-end PCs, with printer, high bandwidth internet connectivity and dedicated multimedia facilities for remote board meetings. The Institution has two incubation centres, named as Dr.APJ Abdul Kalam Incubation Centre for non-circuitous branches and Charles Babbage Incubation Centre for circuitous branches.

Products developed:

Fabrication of smart wheel chair, and Pneumatic sheet metal cutting machine. Innovation Creation and Transfer of Knowledge to the Society Sanitary Vending Machine got 2nd prize spreading the knowledge in society for Stri Swachhata in National Institute of Rural Development and Panchayati Raj 2020 . Micro Chef got certificate of appreciation, Texa Instruments Innovation Challenge India Design Contest - 2020. Metallic 3D printer was awarded with 2nd prize in Osmania University National Project expo 2020

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.smec.ac.in//research/Icentres

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

Nil

File Description	Documents
Report of the events	**No File Uploaded**
List of workshops/seminars conducted during the year	View File
Any additional information	**No File Uploaded**

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software	**A. All of the above**

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the

year

3.4.2.1 - Number of PhD students registered during the year

4

File Description	Documents
URL to the research page on HEI website	https://smec.ac.in//research/research
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	**No File Uploaded**

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

2

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

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

40

File Description	Documents
Upload any additional information	View File
Paste link for additional information	NA

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

128

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	**No File Uploaded**

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

56

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	**No File Uploaded**

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

73.16

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	**No File Uploaded**
Any additional information	**No File Uploaded**

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

1523000

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	<u>View File</u>
List of training programmes, teachers and staff trained for undertaking consultancy	**No File Uploaded**
List of facilities and staff available for undertaking consultancy	**No File Uploaded**
Any additional information	**No File Uploaded**

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

St.Martin's Engineering College has student organizations such as NSS, NCC, Street Cause and Efforts for Establishment of Real Freedom (EERF) which works with national and state social organizations such as Street Cause-Hyderabad, Swecha and organized 95 activities.

National Service Scheme (NSS)

The National Service Scheme' Unit of St. Martin's Engineering College organizes Blood donation camp yearly in association with Indian Red Cross Society of Hyderabad and could donate 250-300 Units of Blood. Students could understand the importance of blood donation, coordination skills, inter personal skills and camaraderie with this event.

Every year on 'World Water Day (March 22)' our volunteers are doing Shramdan to clean ponds and wells in nearby villages (Rayalpur, Dabilpur). Due to this event Students could understand the importance of saving water recourses.

Our NSS volunteers are interacting with farmers in nearby communities and explaining them the importance of 'Organic Farming',' Energy Conservation' and 'Seed sowing machines'. Due to these events students could understand how to reduce expenditure in cultivation and importance of technology in

cultivation.

National Cadet Corps (NCC)

National Cadet Corps - Girl students wing of SMEC learns to defend nation from enemy and natural Calamities

Street Cause - SMEC

Street Cause volunteers learn to serve human with charity activities such as Raksha Bandhan, Distribution of clothes, blankets, medicine, books, food and rice bags to the needy people.

Swachh Bharat-Swachh Community: Under Swachh Bharat event, Shramdan in various places of SMEC and Dhulapally village were taken up by different team of students and teachers, promoting mission Swachh Bharat. Due to this event Students could understand the importance of maintaining clean community.

Awareness program on Organ Donation Camp organized by our students. This imparts them the importance of Organ Donation and also improves their presentation skills.

Stem Cells donation camp as a part of Community service by our students created awareness on the importance of Stem Cells in human body and improved event organization skill among students.

Donation of tractor for garbage dispersion and rupees one lakh for Swachhtha and Suraksha in Dhulapally village, imparts students about the importance of Swachh Bharat Mission.

Our Eco Cell organized events 'Distribution of clay idols' on the eve of Ganesh Chathurthi and a Campaign to educate people to avoid plastic bags created awareness among students to use eco friendly products.

Road safety awareness programs were undertaken by organizing a 5K run by our volunteers to reduce accidents, to wear helmet and seat belt. This imparted students a habit of following road safety norms.

Our Woman Empowerment Cell is conducting awareness programs

like 'Women Empowerment', 'Menstrual Hygiene' and 'Cervical Cancer', Just A Minute program on Gender issues for girls of government school. Due to this our students came to know problems being faced by women in the society.

Efforts for Establishment of Real Freedom (EERF)

EERF Volunteers students of SMEC visit regularly Government School, Dhulapally, imparting basics of Computer knowledge, creating technical awareness thus improving their communication skills and contributing to Digital India Vision of our honorable Prime Minister.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.smec.ac.in/commitee/ncc

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

60

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	**No File Uploaded**
Any additional information	**No File Uploaded**

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

71

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

3849

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

12

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

14

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

INFRASTRUCTURE AND LEARNING RESOURCES
4.1 - Physical Facilities
4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

SMEC provides adequate facilities as per the regulatory requirements of AICTE and JNTUH. The management has a positive approach towards creation and enhancement of infrastructure of the Institution by allocating funds at the beginning of the financial year. The college provides the following facilities.

Infrastructure, ICT classrooms and Laboratories:

The Institution is poised on a 17 acre campus with 23968 sq.mts built up area, centrally located in the City of Secunderabad. It has following excellent infrastructure facilities:

Classrooms : The Institution has Seventy One (71) spacious class rooms with proper infrastructure and LCD Projectors, Wifi-LAN.

Smart class rooms : Seven (7) smart classrooms with provision of multimedia learning, Wi-Fi connectivity and internet access to provide major focus on Elearning.

Tutorial rooms : Seventeen (17) tutorial rooms are available for tutorial, special remedial classes for slow learners and backlog students.

Laboratories : The Institution has eighty five (85) well equipped laboratories. Each of them equipped with state of the art laboratory equipment. These labs are also utilized for students to do their projects during and beyond working hours.

Seminar Halls : The Institution has six (6) Seminar Halls. These halls are regularly used for conducting seminars at state and national levels. The students of UG & PG are regularly encouraged for active involvement in
paper presentations, group discussions and participation in professional society activities.

Mini seminar halls : Apart from seminar halls, the

institution also has three (3)mini seminar halls which serve for the purpose of departmental activities.

Auditorium : A spacious auditorium is located in Dr.A.P.J.Abdul Kalam block with a seating capacity of 1300 and equipped with LCD projector, screen and sound system etc.

Computing Equipment: Total number of computers available in college is 1440. All the classrooms, smart classrooms, seminar halls, mini seminar halls and auditorium are equipped with ICT facilities. All the laboratories are well equipped and maintained according to JNTUH curriculum. Computer laboratories are installed with licensed software as well as open source software.

Library

Apart from the books available in the library, students can also access the online E-resources such as digital library, online journals like DELNET, IEEE, J-GATE, ASME, ASCE are accessible to the students to widen their knowledge and skills.

Digital Library facility.

Internet and Wi-Fi

1000 Mbps dedicated broadband and 70 Mbps leased line Internet facilities. The institution is completely Wi-Fi enabled. The campus is under video surveillance with 340 CC cameras.

Incubation Centers

Incubation Centers aim at training the students in various advanced technologies. Apart from incubation centers, institute has Research & development (R&D),start up and Entrepreneurship development centers (EDC).

Campus Placement and Process Support

St. Martin's Engineering College has an independent Training and Placement wing, committed to provide all possible assistance to the students. It is headed by experienced and qualified Training & Placement officers and also assisted by coordinators from all the departments.

Hostels

SMEC has hostel facility for boys and girls located in college campus. SMEC boys and girls capacity is 250 each which are consrructed seperately.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://smec.ac.in//Facilities/auditoriumSeminarhall

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

Sports and Games:

The institution has adequate facilities for quality physical education programmes, which are needed to increase the physical competence, health-related fitness, self-responsibility, and enjoyment.

Indoor and Outdoor Games:

A state-of-the-art Sports Complex is located in the institute called Laxman Reddy Indoor sports arena, with a plinth area of 2,947sq.m which has facilitates for indoor sports. The institution provides facilities for indoor games like Table Tennis, caroms, chess etc and also has a spacious playground for outdoor games like Basketball, Cricket, Football, Handball, Kabaddi, Throw ball, and Volleyball. Athletic Track Space for all field sports events like Javelin Throw, Shot put, Hammer Throw, Discus Throw, Jumps, etc are available. State of art training is provided to students in all these sports and games. Full time qualified trainers to train students in caroms, chess, table tennis, athletics, basketball, cricket and football.

The trained students participate in National/international tournaments. Many students have won medals and awards in national/international tournaments besides inter collegiate and intra-college activities.

On an average 700 students per day utilizes indoor and

outdoor sports facilities and gymnasium.

The following Indoor and Outdoor facilities are available in Campus.

Indoor facilities:

1.Chess Boards - 17

2.Caroms Boards-8

3.Gym with Imported equipment

4.Table Tennis Tables-6

5.Yoga Center-1

Outdoor facilities:

1.Cricket -1

2.Volley Ball-3

3.Synthetic floor Basket Ball court-2

4.Hand Ball-1

5.Badminton-1

6.Throw Ball-1

7.Kabaddi-1

8.Kho-Kho-1

9.Long Jump-1

10.Athletic Track-400 meters

11.Football-1

Gymnasium

An exclusive Gymnasium is available for the students and staff at Sports complex. It provides an arena for the body builders and the students who wish to keep their body

fit. State of the Art facilities are made available along with the trainers to train the students properly.

Yoga

An exclusive Yoga facility is provided with a dedicated yoga teacher for training both the students and staff. Practicing yoga creates mental clarity and calmness, increases body awareness, relieves chronic stress patterns, relaxes the mind, centers attention, and sharpens concentration. Since 2015 every year on June 21st, the International Day of Yoga is celebrated, in which all the students and staff proactively participate. Best performers are rewarded to encourage active participation and promote wide scale participation of various stakeholders.

Infrastructure for Cultural activities:

The College has adequate facilities for cultural activities

Auditorium.

Amphitheatre & Hippodrome

Vivekananda seminar hall

Auditorium

The Auditorium is located in Dr.A.P.J.Abdul Kalam block. It has a seating capacity of 1300 members and equipped with LCD projector, projector screen and sound system etc.

Amphitheatre & Hippodrome

An open air venue amphitheatre and hippodrome with serene surrounding has been established in SMEC to facilitate students to conduct entertainment performances, cultural activities and sports.

Seminar Hall

Vivekananda Seminar Hall is an eco-friendly structure, constructed with marble flooring. It is a venue ideal for presentations, lectures, workshops and other meetings. It has a seating capacity of 350 members and equipped with LCD projector, projector screen, sound system and white board.

File Description	Documents
Geotagged pictures	[View File](#)
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://smec.ac.in//sports/sports

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

71

File Description	Documents
Upload any additional information	[View File](#)
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	[View File](#)

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

1204.8

File Description	Documents
Upload audited utilization statements	**No File Uploaded**
Details of Expenditure, excluding salary, during the years	[View File](#)
Any additional information	**No File Uploaded**

4.2 - Library as a Learning Resource

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

Integrated Library Management System (ILMS) is an application Software that comprises the procedures and Instructions which enable computer systems to do what the user requires.

The following software versions are being used by SMEC:

New Gen Lib Version 3.0.2 : 2007 to till May 2018.

SMEC ILMS Version-6.1 : May 2018 to till date

SMEC ILMS:

SMEC ILMS is In house developed software developed by our internal staff members, which is linked to kiosks Automated machine which helps to issue & return the books.

SMEC ILMS provides acquisition, cataloguing, circulation, and serial control modules.

Acquisition modules is utilized for generating accession register reports, adding Bulk students'record, updating item lending policy and its status.

Circulation module consists of books issue, return, and reserve options.

Serial Control: Similarly, library barcodes are also generated through this module making cumbersome library work simpler, effective, and time is saving.

Statistical Analysis: SMEC ILMS also provides statistical analysis required for Library Management system such as weekly transitions, most issued items, less issued items, reference books, Books send for binding.

Cataloguing Module: It helps for catalogue books, e-books, articles, reports, serial publications that contain information so vital to institute.

OPAC Module: Library collection can be browsed / searched on Intranet.

Topology: The topography of the Library has 1256 sq. m which includes 451 sq. m. of Reference Section, 800 sq. m. of Reading Room, 5 sq. m. of library with facilities for issue and return desk along with automated kiosks for issue and return of books.

Staff : Dedicated Staff members take care of the Issue desk, reading room section, reference section and digital library.

Book bank Scheme

The library follows the book bank scheme. With this, the

students are able to borrow books for the entire semester. Library has facilities such as software and OPAC (Online Public Access Catalogue) which is used by students & faculty for search of books by title/ author name etc. All the work related to issue and return has been computerized.

Digital Library

The library is automated using advanced computer systems. The Digital Library is provided with HP Prolient – 330G6 with 2TB storage.

The following features can be accessed from any computer within the campus:

Availability of books by subject & by author wise Account information like books taken and due date to return

Fine amount to be paid for books not returned

Links for e-ressources available are

1.NPTEL video lectures http://172.16.11.223/

2.e- journals and e-books

DELNET : http://164.100.247.30/

IEEE : https://ieeexplore.ieee.org/Xplore/home.jsp

J-GATE: https://jgateplus.com/home/

ASME: http://asmedigitalcollection.asme.org/

ASCE: https://ascelibrary.org/journals/all_journals_titles

1.Rare books : http://smec.ac.in//Library/servicesOffered

2.Open Public Access Catalogue (OPAC) http://119.235.48.134/opac/

Besides the College have books for Competitive examinations, Personal Development, and Question Bank facility. Separate staking racks are maintained for Books, Magazines, Journals, and Newspapers. It has subscribed to 9 newspapers, 14 magazines and 6 self development magazines.

Timings

Academic working day : 8:00 AM to 5:00 PM

Vacation period : 9:30 AM to 4:30 PM

Total 8211 number of volumes of books, 97,000 number of e-books, 99 number of titles, 150 number of journals and 27,019 number of e-journals have been added to the library this academic year 2020-21.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://smec.ac.in//Library

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources	**A. Any 4 or more of the above**

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	**No File Uploaded**

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

15

File Description	Documents
Audited statements of accounts	**No File Uploaded**
Any additional information	**No File Uploaded**
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

211

File Description	Documents
Upload details of library usage by teachers and students	[View File](#)
Any additional information	No File Uploaded

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

St. Marin's Engineering College yearly upgrades the IT infrastructure by replacing the old computers and peripherals depending upon the requirements as per the updating in the JNTUH Curriculum.

Frequency of Update:

A.Y. 2020-21: 350 new computers of Dell Vostro3268 11th Generation computers were purchased

A.Y. 2019-20: 276 new computers of Dell Vostro3268 7th Generation computers were purchased

A.Y. 2018-19: 180 new computers of Dell Vostro3268 7th Generation computers were purchased

A.Y. 2017-18: 100 new computers of Dell Vostro3268 7th Generation computers were purchased and updated, according to university curriculum.

A.Y. 2016-17: 200 new computers Dell vostro3653 6th Generation computers were purchased and the existing functional Computers were updated successfully.

A.Y. 2015-16: 200 new computers of Dell vostro3902 4th Generation computers were purchased. The non functional computers were replaced with HCL Busy Bee systems.

A.Y. 2013-14: 200 new computers of Lenovo intel dual core computers were purchased. The non functional computers were replaced with new computers. As of 2013, the number of computers available in the college are: 931

The total numbers of computers presently available are 1440. All these computers are connected to LAN.

Frequency of Up gradation:

The latest up gradation of the computers in the campus are as follows:

A.Y.2020-21: In July 2020 Processors of 140computers were upgraded from Intel i3 to i5

A.Y.2018-19: In October 2018, Processors of 20 computers were replaced from Intel i3 to i5

A.Y.2017-18: On 16th February 2018, Processors of 20 computers were replaced from Intel i3 to i5at CAD lab in Mechanical department, as per new change in curriculum of university. On 18th April 2018, the RAM capacity of the server system was upgraded from 8GB to 32GB in the server room.

A.Y.2016-17: The computer systems in various departments of the college were upgraded from 2GB RAM to 4GB RAM and 320GB HDD to 500GB HDD.

Internet & Wifi

The augmentation of IT infrastructure is also to keep pace with the changing dynamics of higher education and the technical world. The IT infra details are made available in the SMEC website periodically.

The Campus is provided with 1000 Mbps broadband high-speed internet and the leased line provides 70 Mbps speed.

During the A.Y 2015-16 wi-fi facility is provided in the campus for the benefit of the students and the faculty.

In A.Y 2016-17 the wi-fi cover is extended to the canteen and other student support service locations.

In A Y 2020-21 the wi-fi facility is made available to each corner of the organisation with optimum speed.

The college has more than 20 Wi-Fi hotspots with extenders provided to cover the wireless range throughout the college.

All computers in the campus are connected to the internet as it is essential for the students to work, besides surplus Ethernet ports are provided for laptops or need of internet connectivity.

A separate team with in-house staff is formed to take care of the IT & related needs of the campus such as Software Development, Hardware & Networking, Website designing & hosting, Email solutions, SMS solutions, etc.

Extensive use of ICT resources including development and use of computer-aided teaching/learning materials by its staff and students is ensured in the College.The sonic Firewall has been deployed for handling enhanced load on network and applications, catering to academic and administrative processes, thereby providing a secure campus network. The college provides advance library web broadband office for the arrangement for the use of ICT resources.

Internet Provider : ACT Fiber , D-Vois communication Pvt. Ltd

Available band width : 1000Mbps

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://smec.ac.in//Facilities/auditoriumSeminarhall

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
3880	1440

File Description	Documents
Upload any additional information	[View File](#)

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus	A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing	A. All four of the above

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.youtube.com/channel/UCrbL56 eWuiXDqT-NGaR7PAQ/videos
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

1204.8

File Description	Documents
Audited statements of accounts	No File Uploaded
Upload any additional information	View File

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

In SMEC all the Departments and various functioning units of the college are provided with the required infrastructure facilities like class rooms, faculty rooms, girls waiting halls, laboratories etc. The effective usage of all the facilities is ensured by introducing exclusive hours for sports, extra lab hours, specified hours to visit advanced labs and Central Library perfectly blended in the regular time table itself. Students can avail the facility of yoga training every week. During these slots, concerned class in-charges / faculty members will ensure the presence and utilization of these facilities by the students. A separate computer maintenance team, which handles the departmental requirements, is available 24*7. For every computer centre, a programmer / Technician is recruited and a faculty member is in-charge of the centre

LABORATORY

The laboratories in the college are furnished according to the prescribed statutory rules. Necessary equipment and material is procured to deliver to the students the best standards of education.

Utilization

• With respect to the time table, the students conduct experiments in their assigned labs with assistance and supervision of the lab-in-charges and lab technicians.

• Consumable and non consumable materials registers, are updated periodically.

• Regular cleaning of the machines is done by the support team in the presence of lab technicians. This cleaning is monitored by the lab technician concerned and is recorded in a check list.

Maintenance

Before the commencement of the academic year, a lab audit is conducted and a report on the requirement of new equipment, replacement of the old equipment and modernization of machines/software is prepared along with requirement of consumables, non-consumables as per the university guidelines to conduct experiments. Regular inspection of machines is

organized.

In case of breakdown of any equipment, the details of that equipment will be recorded in the breakdown register, duly attested by the HOD pending rectification.

CLASSROOM

A conducive environment plays a pivotal role in the performance of students. Therefore, it becomes extremely necessary to provide them with ananbience that is, comfortable, peaceful and spacious. The college takes necessary steps to make this possible.

Utilization

• Before the commencement of the academic year, based on the intake of students, heads of departments propound the requirement of classrooms to the Principal.

• The classroom allocation is done by the HOD in the concerned department building.

Maintenance

• The benches and windows are cleaned and mopping of the class rooms is done daily.

• In case of any damage to the projector, internet or the audio systems, the class mentor brings it to the notice of the HOD by registering the problem in the breakdown register. The necessary follow up action is done by the department and steps are taken to fix whatever is broken.

SPORTS

A sports committee is created to handle the concerns and issues related to sports. This committee consists of students along with the concerned faculty. A meeting is held on the last Friday of every month to discuss matter. Issues like the following will be discussed in these meetings:

• Financial - Budget preparation, allocation of budget

• Organization - planning, executing and conduct of competition

Procurement process

The college requires sporting gear for all the sports practiced. It follows the given procedure to procure the same:

• A list of the required sports equipment is prepared by the sports department for each academic year separately.

• The formulated requirement proposal is submitted by the committee to the concerned authorities.

• A copy of the same list is also submitted to the principal for further approval from the chairman.

• On approval, a purchase order will be placed to a supplier.

Utilization process

• Students are permitted to play only during the sports hours and after college hours, to practice for any competition. Separate bus facility is provided for the students who practice after college hours.

• Students are permitted to utilize sports material with prior notice to the Physical Director. They must enter the details of material in the register.

• The concerned authority makes a note on return of the same in the register.

LIBRARY

Procurement of learning resources:

• The librarian recommends the list of learning resources to be procured

• Systematic effort is put into stocking the Library. This is done so by careful identification, evaluation and selection for the students' convenience.

• Any book, journal, online database or any learning resource is added only after the selection process by subject experts.

Procedure of procurement of Books/Reports:

Initiation of Acquisition:

Concerned faculty recommends books to be procured in their respective subjects. Students also request for books based on their requirement. These requirements are endorsed by the concerned faculty member.

Invoice Processing:

All indents made by the faculty are routed through the Principal to the Chairman for approval. The order is made online, by print or via email depending on the convenience of the library and accessibility.

Accessioning:

Entries are made in the bill register at the security point of the college. Bills along with the books are sent to Library. The details of the Invoice and books are made in the Accession Register and accession numbers are given to the books. Files of bills concerned with the library are maintained by Librarian.

Processing books:

Stamping – Library Stamp is put on the backside of the title page, on secret page and on the last page. Bar Codes and Round labels are pasted on the title page and are laminated with Cello tape.

Circulation Policy:

• One library card are provided to each student

• He/she can borrow one book on each card. Borrowing period is 15 days.

• Renewal is allowed, if there is no demand for the same book, from other readers.

• For late submission of books, cards will be held up for the period of delayed no. of days.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.smec.ac.in//Facilities/auditoriumSeminarhall

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

2618

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	**No File Uploaded**

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

264

File Description	Documents
Upload any additional information	**No File Uploaded**
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology	**A. All of the above**

File Description	Documents
Link to Institutional website	NA
Details of capability development and schemes	View File
Any additional information	**No File Uploaded**

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

1591

File Description	Documents
Any additional information	**No File Uploaded**
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees	**A. All of the above**

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	**No File Uploaded**

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

708

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	**No File Uploaded**

5.2.2 - Number of outgoing students progressing to higher education

72

File Description	Documents
Upload supporting data for students/alumni	**No File Uploaded**
Details of students who went for higher education	View File
Any additional information	**No File Uploaded**

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

70

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	**No File Uploaded**

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

42

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	No File Uploaded

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

The purpose of the Students Council (SC) is to provide programs, activities and services which serve the co-curricular, cultural, social, recreational and educational interest of students at the Institution. These bodies let the students to share their ideas, interests with faculty members, HOD and Principal for the improvement of Institution in all perspectives. The student council is named as Sensational Engineering Student Association (SESA), which consists of advanced learners from each Department. The students are included in SESA on selection basis.

The roles and responsibilities of student council in academic and administrative bodies are:

To express their opinion to the administrative bodies of the Institution.

To promote and encourage the involvement of students in organizing College activities.

To promote the interest of students among the college administration, staff and parents.

To consult students on any issue of importance.

To organize educational and recreational activities for students.

To organize an activity or an event to recognize the efforts of students involved in organizing college activities.

To propose activities to the college administration that would improve the quality of life in the college.

Student council has to ensure pleasant atmosphere for smooth conduction of academic activities in the college premises.

To actively participate in the activities like Technical Quiz, Aptitude Test, Group Discussions and Mock Interviews that helps them to get placed in Multi-National companies.

To actively involve in extra-curricular activities like Plantation, Swachh Bharat mission, Sports and Cultural events.

To organize Technical Seminars which will be given by individual students in order to enhance their ability to excel in Industry.

To co-operate faculty members for personal counseling that help the students to resolve their problems in the academics.

Active involvement of students in achieving ragging-free campus.

To incorporate the interest in "Outcome Based Learning" that helps the students to become an Employable Engineer.

Students should come out with innovative projects which will attract industry people and good enough to apply for patents.

To raise interests in Industrial Visits and Placement Drives.

To co-operate the faculty members to teach beyond the syllabus and master all subjects.

To involve voluntarily in conducting National/Inter-national level Workshops and Conferences etc.

To involve actively in Academic Committees and support the Committee Members to perform their activities in smooth manner.

To actively participate in Training Programs Organized by the Institution.

To actively participate in State Level or National Level Seminar and Project Competition.

To incorporate interest in Learning beyond the Syllabus.

To express their innovative ideas.

We have the following academic and administrative Committees in which student Council is involved:

1.Grievances and Redressal Committee (Students).

2.SC/ST Committee (Equal Opportunities Committee).

3.Placement and Training Committee.

4.NSS and Medical Facilities Committee.

5.Library and Professional Societies Committee.

6.Entrepreneurship Development Committee.

7.Disciplinary Committee.

8.Computer Center Committee.

9.Canteen Committee.

10.Anti-ragging Committee.

11.Alumni Committee.

12.Women Empowerment & Prevention of Sexual Harassment.

13.Transport Committee.

14.Students Welfare and extracurricular activities Committee.

15.Sports and games committee.

16.Hostel Committee.

17.Eco Club.

18.NCC.

19.Health Club/Center.

20.Cultural Committee.

21.Website/ IT/ ICT Committee.

22.Publication Committee.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://smec.ac.in//Council

5.3.3 - Number of sports and cultural events / competitions organised by the institution

10

File Description	Documents
Report of the event	**No File Uploaded**
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	**No File Uploaded**

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The Alumni of an Institution forms the core of the value system that the Institution believes in and diligently practices over a period of time. St. Martin's Engineering College established in the year 2002, has a standing of 18 years and has at credit more than fifteen hundred alumni as its proud ambassadors.

These ambassadors participate in nation building in various domains. The Alumni of SMEC, who are chiselled as per the Vision and Mission of the Institution are a great contribution to the society. It is with the symbiotic bond with these alumni that the Institution can further improve, and further contribute to the growth of the new batch of students. It is in this direction that the Alumni Association of the College called

'DISHA' was functional since 2008. However the Association has been registered with '1684 of 2018' registration number in the year 2018. Though the registration has taken place recently, it has been functional, highly proactive and

regularly been meeting for further continuation in terms of inputs, feedback and participation in the improvement of the Institution.

The 'Alumni Meet' is conducted twice in a year, where the alumni from all the Departments 'CSE, ECE, MECHANICAL, CIVIL, EEE and IT' as UG program graduates along with PG programs, i.e., CSE, ECE, and MBA can gather under one roof .The alumni students can share all their experiences from campus life to career life, the various efforts involved in attaining a professional life. The meet will be almost an interactive session.Successful entrepreneurs, professionals and project team leaders from the alumni are invited to talk on their success stories. The employees with foreign MNCs from alumni also respond to this great occasion and bring glory to the alumni meet with their multi talented skills through telephone conference.

The alumni also assist the final year students of various streams of engineering to get their project placements and summer internship in their companies. This is the probable way, the regular alumni association meetings pave the way for the successful placements of the students.

At the end of the alumni meet, feedback to be taken from the alumni for the effective conduction of the programme in further years and for the benefit of outgoing students.

"Knowledge" is the main base of any learning process. Suitability for any employment criteria can be judged based on "the knowledge in all aspects" of a job seeker.

"Communication Skills" are life skills, without which the acquired knowledge will be remained unsuccessful. During the student life, a student ought to acquire these with equal priority for subject knowledge.

"Interpersonal Skills" teach how to behave, respond and act at the work areas. Proper and careful training in this area makes the learner confident at all stages.

"Management Skills" are extremely important in order to cope with any work environment and succeed in any field.

"The Design of Curriculum" at Institutions should pave a way for an employee to perform all the assignments successfully

at the work places.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	https://smec.ac.in//Council/Alumni

5.4.2 - Alumni's financial contribution during the year

A. ? 15 Lakhs

File Description	Documents
Upload any additional information	**No File Uploaded**

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

College Vision and Mission

Vision

To become an institute of excellence by creating high quality and innovating engineering and management professionals who would take the world into their stride through sustainable growth in technology and management.

Mission

To instill moral values and promote technological, intellectual and ethical environment to the students with an in-depth and exceptional education that makes them employment ready as per the emerging trends in industry and to invoke the desire of innovation as a process of life-long learning for a successful career in engineering and management.

The Principal is the Academic and Administrative Head of the Institution. He is assisted by Deans, Heads of the Departments, Accounts Officers, and Conveners of various Institute level Committees. The various Committees direct the day-to-day functioning of the Institute

include: Governing Body; Head of the Departments, Internal Quality Assurance Cell (IQAC),

Admissions Cell; Examinations and Evaluation (EE), Research & Development Cell (R&D) andTraining and Placement (T&P) Cell.

Recurring requirements of Departments are identified by the Heads of the respective Departments, which are presented to the Principal .The identified requirements are presented to the Governing Body by the Principal and approvals obtained.Faculty members participate, through corresponding Functional Committees, in finalizing teaching methodology of courses, maintenance of academic standards, and student welfare. Such participation brings transparency to the governance and inherently encourages team-work.Students and alumni members are also involved in certain Committees including the IQAC so that their views are also considered in governance.Thus, all stakeholders of the Institute are involved at various levels in assessing actual needs,budgetary requirements, academic standards and policy-making, progression in innovation andresearch. The Principal subsequently drives the resulting policy, strategy, resource allocation, andoperations through the Governing body. Societal impact and responsibility are assigned prime importance such that the Institute contributes to sustainable socio-economic development through globally competitive standards.

PERSPECPTIVE PLAN OF THE INSTITUTION

Enhancing the quality of teaching and learning process by incorporating modern and digital methods.Promotion of Research among staff & Student by using ICT Tools and improve research synergies with industry Improving industry institute Interaction

Engaging extension activities

Effective Quality Assurance Measures

Obtain AICTE/DST/UGC Grants from Government sources

Internal Revenue Generation schemes

Establishment of Research Centre

Incubators & Innovation centre for Start-Ups

Increase the faculty with Ph.D., qualification to 100 % by 2023

Envisioning the establishment of a Deemed University and aiming to offer world class educationand reached by using ICT Tools

QUALITY POLICY

The Quality policy aims at making St Martin' Engineering College along with its Management Institute to be one of the best institutes within the state through continual improvement of its scholastic ability andeffectiveness of the quality management system.

Thus the Governance of the institution is indicative of an effective leadership and provides opportunity forstakeholder participation. The governance is transparent, objective, enabling and in tune with the visionand mission of the institution.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://smec.ac.in//Aboutus/visionmission

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The institution has decentralized and transparent mechanism in management, administration, financial andacademic affairs. The institution believes in delegating appropriate responsibilities from the top levelmanagement to low level and allows the top management to focus on policy making and major decisions.

The Governing Body constitutes the members of the Management, Representative from JNTUH, Principaland two senior most faculties. The Governing Body has the Principal as the member secretary besidesDean Academics, Research , Academic & Administrative committees and IQAC who also participate inthe

highest decision making body of the institution. The Principal, who is part of the Governing Body, andparticipates along with management & faculty member in the Governing Body. The Faculties of thecollege are the conveners of various committees along with the student representatives, parents and alumni thus all the stakeholders participate in the governance of the institution.

Besides decentralization is ensured through the approvals provided by the Governing Body to the Perspective Plan and the Budget. Once the approvals are given, the Heads of the Department are free totake all decisions related to governance, academics, evaluation etc. various committees are set up with thefaculty as conveners and student representatives, who take decisions on a variety of issues throughcommittees. Thus there is participative management and decentralization of governance and power. The IQAC of the College plays a pivotal role in quality assurance, sustenance and enhancement through visioning and deployment besides review for quality assurance.The decentralized mechanism exists even at the department levels. Decisions at department levels are taken by well-structured committees.

CASE STUDY

The said case study enables one to understand that there is participative management at institute level. A student studying second year B.Tech stays in the boys hostel inside the campus. During the month March 2020, the Govt of India has imposed lockdown due to Covid 19 pandemic and all the students are instructed to go back to their hometowns. The student faced lot of problems for moving to his hometown due to the state border restrictions imposed by various states. On the other hand the student's parents were aged and they are also helpless to migrate the student from campus to their hometown. In this difficult situation, the student has approached the Hostel Warden of the hostel and expressed his difficulties to go to his home town. The Hostel Warden has taken initiation and arranged all the necessary state permission by contacting the local police of the state. Also, the warden has deputed one staff and arranged a private transportation to drop the student in his hometown. The deputed staff has accompanied the student and dropped him in his home without any hurdles. The parents have called the Hostel Warden and expressed their happiness for bringing their child in a safe way. Due to the decentralization and

participative management at institute level, the Hostel Warden could do this without taking any help from Principal and the management of the institute.

File Description	Documents
Upload strategic plan and deployment documents on the website	No File Uploaded
Upload any additional information	No File Uploaded
Paste link for additional Information	https://smec.ac.in//commitee/commitee

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The College has a Long term Strategic Perspective Plan as well Annual Strategic Perspective Plan for continuous improvement and move towards the realization of its vision, mission and core values.

The Long term Goals:

To strengthen the teaching -learning process.

To promote "Swacch Martins' further.

Center of excellence in Engineering and technology and to setup incubation centers

Strengthening of academic and R &D programmes in collaboration with reputed Universities and industry.

To attain NAAC accreditation with A++ Incubation center for all departments.

To attain autonomous Status and to maintain NBA accreditation for all departments.

Number of patents and book publication to be increased.

Number of funded and consultancy work to be increased.

Strengthening of Academic and R&D programmes in collaboration with reputed Universities and Industry.

To depute more faculty for Conferences/Workshops etc.

Medium Term Goals:

Motivate students and faculty for higher studies

Improving Placements in Core Sector.

To improve Industry Institute Interactions.

To encourage faculty to publish technical papers in reputed journals.

To encourage Students to take part in national / International Conferences and publish their Research work

Short Term Goals (Annual Goals):

To modernize class rooms and laboratories.

To modernize laboratories.

To depute supporting staff for training.

To enable automation of the administrative and academic sections.

To save power.

At the beginning of every academic year, the principal mandates the IQAC to brainstorm and prepare the SPP. The IQAC in turn asks all the Heads and Conveners of 56 Clubs/Cells and Associations to prepare their respective Perspective Plan in sync with strategy and in turn sync it with the University Calendar of events every year.

Case study of successfully implemented Strategic Plan:

To save power (Go Green) :

The vision of the college is to attain sustainable growth

through technology. In line with the vision of the college our in house staff and students have developed a mechanism to reduce the dependence on conventional methods of energy and switched to better method of sustainable growth by using and taking advantage of Renewable energy sources like solar energy which is abundant in nature. Solar power plant has been installed to convert solar energy to electrical energy this process enabled us to reduce the consumption of electricity thereby reducing our expenditure on power bills .The solar power plant has the generating capacity of 132KW. To generate that power we are using 414 solar panels, in which each possesses 315 WH capacity. By using these solar panels we are generating DC power, to invert this into AC we are using four Inverters of each bearing of 33KW capacity. The complete solar power station was erected in On Grid metering system. That means we are not using any type of battery storage system. The amount of energy which is generated by the solar panels is directly supplied towards load; the remaining energy can be taken from the grid. The complete solar power plant is automatically operating system.

File Description	Documents
Strategic Plan and deployment documents on the website	No File Uploaded
Paste link for additional information	NA
Upload any additional information	View File

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

The organization has a well-structured administrative setup with Governing Body as the highest decision making body and 56 other functional bodies and committees. The administrative setup and the functions ofvarious bodies are given in the link for additional information.

1.ADMINISTRATIVE SETUP :

The apex body of the Organogram is the governing body, which is financial, administrative and quality systems policy making body under which the entire college functions are being organized and controlled.This committee meets many

times in an academic year depending on the college issues and it will meet aminimum of three times in an academic year.

The Chairman, Executive Director and Principal are the functionaries who take the responsibility of implementing the policy decision of the governing body.

The Principal has the executive powers to administer the academic, development, and other functions based on the guidelines prescribed by him. Dean Academics and Dean R&D assist the principal on all academic matters

There are 8 academic departments directly reporting to the Principal as line management organs. Each department is headed by Departmental Head below whom all laboratories and faculty are functioning

2. Functions of Various Bodies:

To provide policy framework and direction for the functioning of the institution, 56 committees play a vital role. Which evaluate, monitor and recommend in respect of various matters related to Institutiona lCapacity, Review, Design and Education Effectiveness, Research, Examination and Evaluation etc. forsustaining Institutional Capacity and Educational Effectiveness.Committees list and details

1.Service rules, Procedure, Recruitment and Promotional policies

Service rules, policies and procedures for the institution are in place and documented. They are made known to all newly recruited staff members through an induction programme. The Recruitment and the Scales of pay for various teaching positions will be as per AICTE

Recruitment Policies:

The process of recruitment includes:

Invitations of application (Paper advertisement , through references etc) Preliminary assessment of the suitability of the candidates(review of resume received)

Invitation to applicants for a campus visit for the interview Assessment by Selection Committee and recommendation to the

management Final decision on recruitment by Management.

Promotional Policies:

All promotions are by Selection Committee only.

Eligible candidates shall be considered for promotion on the recommendation of the selection committee.Number of posts at various levels in each discipline shall be as deemed necessary by the college Authorities List of the Service rules, policies and procedures are given below.

Service Rules Book

Sample Copies of Promotional Circulars of SMEC

Supporting Documents

4. Grievance and Redressal Committee:

The Grievance Redressal Committee of the SMEC is established with an aim to provide easy and readily accessible procedure for prompt disposal of the day to day genuine grievances of the student and faculty community to maintain a congenial atmosphere. Any genuine grievance may approach the GRC to submithis/her grievance in writing to "The Convener, Grievance Redressal Committee, SMEC or through suggestion box.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.smec.ac.in//Academics/orgStructure
Upload any additional information	No File Uploaded
Paste link for additional Information	https://smec.ac.in//assets/images/SERVICE%20RULES.pdf

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination	A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	**No File Uploaded**
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	**No File Uploaded**

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

St Martin's Engineering College undoubtedly considers that the teaching and staff play a key role in the growth of the institute and therefore providing welfare measures and services at the workplace becomes vital to provide continuous improvements in. These welfare measures include enriched physical and mental health to the employees and thus promote a vibrant and encouraging work atmosphere. It would also stimulate the employee's productivity and commitment to the institute. Indeed, a motivated employee will respond by contributing to the best of his / her capabilities. A comprehensive list of welfare facilities and services provided to the teaching and non-teaching staff at SMEC is provided in the attachment. These facilities and services are availed by them based on their eligibility and requirements at the appropriate time as per the prevailing norms of the institute The Institution provides effective welfare measures to both teaching and non-teaching staff. All statutory welfare measures are implemented. Various monetary, non-monetary measures towards personal and professional growth are being extended to the satisfaction of the employees. The institution has a Women Empowerment Cell as well, which caters to the grievances and other needs of girl students as well as lady faculty and female staff members. SMEC recognizes the contribution of the employees towards the development and progress of the organization.

Welfare measures for teaching and non teaching staff:

Group Insurance: Employees are covered under Accident

Insurance.

Maternity leaves: Maternity leave for three months is given to female staff.

Medical leaves: Medical leaves are sanctioned for the required staff.

Loans: Laptop loans are provided for both Teaching and non-teaching faculty.

Gifts: Gifts and mementoes during Teachers' Day celebrations are given

Sponsorship for higher studies: Faculty members, if opting for higher studies, leading to enhancement of quality, are sponsored either in terms of finance or in terms of leaves

Finance for health care: Financial assistance is provided on emergency medical grounds for staff.

Advance Salary: Salary in advance also provided to the staff members who are in need.

Financial support for the Supporting for of the children of the teachers in the group institutions.

Publication Incentives: For participation in the National or International Conferences and for publishing research papers in the National or International Journals, its registration fees and the cost for the participation are given. Publication in is encouraged through prize money.

Sponsorship for knowledge up-gradation: Faculty members are sponsored for attending STTP, workshops, seminar, and conferences for up-grading their knowledge

Ex-- Ex- amount is provided to the staff's kith and kin on the demise of the staff while in the service.

Promotion: Faculty members, based on the qualification, services, and outcome of the performance appraisal, are given promotion on to the higher post or financial benefits. The following are the amounts spent for the welfare measures for teaching and non-teaching staff

2013-14 - Rs 2,39,000,

2014-15 - Rs3,29,000,

2015-16 - Rs4,39,775,

2016-17 - Rs 7,88,600,

2017-18 - Rs 6,37,900

2018-19- Rs 8,79,550

2019-20 - Rs 10,14,680

2020-21 - Rs 13,00,800

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	[NA](NA)

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

157

File Description	Documents
Upload any additional information	**No File Uploaded**
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	[View File](View_File)

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

51

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

243

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	No File Uploaded

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal and External audit Mechanism:-

SMEC Strictly believes in following all statutory requirements for all audit and accounting practices. The institution conducts internal and external financial audits regularly. As part of this mechanism, theinstitution has in-house team consisting of two persons for carrying out the internal audit. The team conducts internal audit on regular basis and submits the report to the Chairman IQAC (Internal QualityAssurance Cell). The Chairman IQAC attends to the major audit queries raised by the team and takes appropriate steps for remedial action.

The institution also has external audit mechanism carried out by M/s REDDY & KUMAR, Chartered Accountants having standing of 35 years. As a part of the mechanism, queries will be raised which are put before the Chairman IQAC. After due clarifications & rectifications, the accounts will be

finalised accordingly. The external audit is conducted once in a year.

The Chairman IQAC is also contemplating to appoint an Audit Sub Committee to attend all the queries raised by the internal audit team and external auditors.

Income & Expenditures:

The details are available in the income and expenditure statement, which is uploaded.

Objective of Internal & External Audit:

The objective of conducting Internal and External audit is to locate discrepancies in the accounting process.The internal audit is done by in-house team comprising of two members. The external audit is conducted by registered chartered Accountants. Internal Audit is conducted twice in a year and the external audit conducted once in a year. Provision of departmental budget is followed and the optimal utilization of funds and the monitoring of the budget is done through Internal and External Audit. After the internal audit is conducted and the discrepancies are located .The internal audit report is submitted to the Chairman of IQAC. Principal of the college is the Chairman of IQAC and reviews the internal audit report and takes the necessary steps for follow-up action.

The Chairman IQAC, will review the internal audit report with all the IQAC members and then will direct he Accounts Officer to make the necessary corrections. The Accounts Officer on the directions of theChairman IQAC will rectify the discrepancies identified and will submit the corrected audit report to theChairman IQAC.

Financial rules are implemented in the college. No-Cash transaction is encouraged. Fee payment throughon line method is made mandatory. An effective financial management system is followed which ensures that no financial mismanagement takes place and utmost care is taken to follow the best accounting practices.

Audited financial statements including Income and Expenditure details, Audited Reports are prepared by aqualified External Auditors who are certified Chartered Accountants and then the

same is filed in the Income-Tax Department.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.smec.ac.in//Home/Iqac

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

36.55

File Description	Documents
Annual statements of accounts	**No File Uploaded**
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	**No File Uploaded**

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

Mobilization of Funds:

Most of the funds required by the institution are being met out of internal generation from fees collected.The institution as its policy has a panel of external agencies for obtaining term loans required for anycapital expenditure or working capital finance.

Apart from this, the institution also has allocated finance function to one of the managing committee members who will look after the procurement and deployment of the funds.

The Telangana govt regulates fee to be collected from the students for the colleges are fixed by TelanganaAdmission and Fee Regulatory Committee (TAFRC).the tuition fee fixed for the college depends on theinfrastructure available, the faculty strength, sanctioned students strength by JNTUH for individual branches. The TAFRC takes the data from respective colleges every year and conducts inspection to finalize the

student's fees for undergraduate and post graduate courses.The funds are granted through the collection of tuition fee as guided by the TAFRC.

The funds received year wise is 2020-21 it is 30,38,08,746, 2019-20, it is 29,14,53,300, 2018-19, it is 26,32,01,400, 2017-2018 , it is Rs 23,45,07,600, 2016-2017 , it is Rs 19,09,70,400, 2015-16, it isRs16,33,03,884, 2014-2015, it is Rs15,06,94,500/-, 2013-2014,it is Rs13,96,52,671/-.

The Tuition fees are collected annually. In order to meet revenue expenditure, the financial needs are metthrough short term loans from the panel of identified agencies like Banks and Financial corporations. Theother sources of income are:

1.Transport fees collected from students.

2.Admission fees.

3.Application Fees.

4.NBA Fees.

5.Examination Fees.

6. Hostel Fees

7. Revenue generated from Consutancy Projects

8. Revenue generated from Funding Projects

9. Revenue generated from Conferences, Workshops, FDPs, Seminars.

10.TCS-ION:

The College lends its infrastructure for external agencies like TCS-ION for conducting exams e.g. RRBExam, GATE, CAT, JIPMER and TSPSC.

Strategies for optimal utilization of financial resources:

The college also rents its premises, auditoriums, playgrounds for activities like short film shooting, feature film shooting, sports meet, audio & video releases of films. Our hostels are also used to accommodate students who come to

attend sports meet and Conferences. The Sports Bodies pay rent for utilising our hostel facilities.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	NA

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

Role of IQAC in SMEC:

IQAC of the SMEC is committed to providing quality in all the domains of the campus life. It draws strategies for quality achievement, substances, and enhancement. IQAC has evolved various procedures for meeting the requirements. It draws strategies through Curricular Aspects, Teaching learning process,Research practice, Community engagement, HR Management, Industry Interaction, placements,Infrastructure Facilities, Learning Resources, Student Support Progression, Governance, Leadership &Management operations activities.IQAC has mechanisms for ensuring implementation of all the policies, review and evaluation.

IQAC formulated strategies and processes for achieving quality objectives. Some of the strategies are:

Ensuring completion of syllabus coverage.

Curriculum planning and implementation

Conducting academic audit for improving the quality of course file.

Focusing special attention on slow learners and advanced learners.

Ensuring students participation in extracurricular activities.

Ensuring overall development for students and make them as successful persons in employment, entrepreneurship and higher studies.

Establishment of incubation centers.

Promoting In house research projects.

Some of the best practices followed are:

Conducting Academic audit for improving the quality of course file.

Promoting In house research projects.

Learning beyond curriculum.

Inculcating the spirit of Persuing research

Specialized coaching for Employment, Entrepreneurship and Higher studies

Out of the above practices two examples institutionalized are:

Best Practice -1

1.Academic Audit Mechanism

IQAC under SMEC is established to frame the strategies and policies for the holistic growth of the college. IQAC works in coordination with Academic Audit committee (AAC). The Academic audit Committee functions in the following levels.

At the beginning the faculty prepares the course file and verified by the subject expert and then HODs verification. The verified course file should be approved by Academic audit committee (AAC) member and Dean of Academics. At the final level the principal attest the course file.

The college has the practice of preparing session planning, clearly defined program outcomes, program specific outcomes and course outcomes which are mapped so as to evaluate the students in terms of attainment of Graduate attributes and Learning Outcomes which are incorporated in course file.

Best Practice -2

1.Promoting In-house Research Projects

The Institution arranges for interface among the institutions, industries and the public to take up research projects which are relevant to the present world. The focal objective of the institution is to transform the students into productive citizens through integrative and experimental learning process. Every student at SMEC is encouraged to present their innovative ideas towards product development. The Institution for this purpose has set up Project Laboratories in each department by providing the best equipment to conduct experiments. The Milestone in this Category is that the Institution started a mechanism to provide sponsorship for student ideas and Projects.

The institution encourages the staff and students to Present and Publish their research work in the International, National level Conferences and Journals

Evidence of Success

Some of the best In-house Projects:

1.Stree Swachtha (Sanitary Napkin Vending Machine) (Award won in "NIRDPR" event)

2.Automatic Seed Sowing Machine

3.Campus Automation System with Information Kiosk

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.smec.ac.in//Home/Iqac

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

IQAC in SMEC has a main function to look into the transparency in teaching learning process. The cell has initially studied the prevailing processes and the profiles of the faculty along with their experience and expertise in

their relevant subjects. The relevant outcome of the internal discussions of IQAC is circulated from time to time to all the stakeholders to incorporate the modification suggested by the IQAC. According to affiliated university examination pattern, the students are evaluated only twice in a semester. It is observed that the students are learning the subject only with the view to attempt the university examinations. The IQAC suggested weekly tests and prefinal exam for the improvement of students

MANAGEMENT INFORMATION SYSTEM:

The institution implements the ERP modules to generate various MIS reports for the efficient decisionmaking. The ERP Modules are listed below:.

1.Staff Data

2.Time Table

3.Attendance

4.Internal Mark

5.Schedule alter

6.Black Box

7.Student Feedback

1.REVIEW BY IQAC ON ADVANCE LEARNERS AND SLOW LEARNERS

When admission process is complete, the Institution organizes orientation program for all the students inviting the experts of personality development. Then, the level of the students is identified based on the test conducted for the students and assessment will be completed. The students are grouped into slow learners and advanced learners. The Institution has a mentoring system to help the students improve their learning levels. For Advanced Learners, the institute identifies their learning needs through various ways like classroom interactions, quiz and seminar assessment. They will also be given special coaching to take competitive exams like GATE, GRE, TOFEL etc.

The following strategies are adopted for improving academic

performance. Remedial classes for weak students. Students are encouraged to participate in classroom interactions. Practical demonstrations, field trips/industrial visits are arranged. They are guided to work independently for conducting Seminars and take up value based projects Innovation and Creativity in Teaching – Learning:

3D Printer:

These objects can be of almost any 3D shape or geometry produced from electronic data source . A 3D printer is a type of industrial robot. The main focus is design of metallic 3D printer and its applications. The study on design of 3D printer involves the basic analysis of present 3D printers, their parts and mechanism. 3D printing machine is designed and developed with different parts like extruders, nozzle, stepped motors, Teflon tube etc which are assembled, tested and also printed some objects. The development involves the preparation of the filament that could print the metallic objects. Trials were made on different filaments and conclusions are drawn. Betterments are made to improve the performanceof the filament in all the aspects required.

Formability Testing of Metals:

Sheet Metal Forming is the process of converting a flat sheet of metal into a part of desired shape without fracture or excessive localized thinning. The process may be simple, such as a bending operation, or a sequence of very complex operations such as those performed in high-volume stamping plants. In the manufacture of most large stampings, a sheet metal blank is held on its edges by a blankholder ring and is deformed by means of a punch and die. The movement of the blank into the die cavity is controlled by pressure between the upper and lower parts of the blankholder ring. This control is usually increased by means of one or more sets of drawbeads. These consist of an almost semicylindrical ridge on the upper part of the blankholder and a corresponding groove in the lower part (the positions are sometimes reversed).

Seed Sowing Machine:

Automatic Seed Sowing Machine: In last few decades it is witnessed the development in each and every field. In the field of agricultural also we had seen remarkable

development, big farmers are now a day's using cultivator, harvester, tractor, advance machine tools and advance farm equipment's, but in our country l 70% of farmers are small and marginal and they are still doing farming by traditional method. Thus they are in need of improved agricultural tools that may be hand driven or bullock driven. Thus similar advanced type of tool is designed. The input conditions are taken based on a survey leading to agricultural land around Hyderabad. Materials and manufacturing processes are carried out by students.

The Automatic seed sowing machine is developed by students for seed sowing. It can be operated by mobile. It can sow the seed equidistant. It is light weight so need less tractive power. The battery is rechargeable

2. REVIEW BY IQAC ON TEACHING – LEARNING PROCESS

Institution will follow the evaluation process and internal assessment. We conduct formative assessment and summative assessment. Formative assessment includes group discussions, quiz session etc. Summative assessment includes internal examinations, external examinations and practical examinations.

In the internal assessment process, we conduct the internal examinations for theory and lab topics to check the performance of the students. We also allow final year students to develop projects. There is a Grievance and Redressal cell for students, in which they can express their grievances like re-counting, re-evaluation, etc.

Institution follows the academic calendar given by the university. According to that, examinations will be conducted and course perspective plan are prepared to complete the syllabus. Institute prepare institution calendar to conduct the activities to the students like guest lectures, workshops, etc.

The following reforms are adopted by the institute as per university directions. They are as follows:

Summative Assessment

The University has introduced many reforms in the last five years for reining in transparency, objectivity and

efficiency, and same is adopted.

Formative Assessment

Our Institution has introduced a Formative Assessment which is diligently developed, implemented for regular practice. A comprehensive scale of parameters is considered for of the score given by all the students for each subject is taken as feedback for particular faculty for that subject. HOD's Track the record of every individual faculty. The Percentage for each parameter is also considered for performance review of the faculty. Substandard faculty members are sent for like FDP's, Professional courses and workshops.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.smec.ac.in//Academics/Iqacmom

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)	**A. Any 4 or all of the above**

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.smec.ac.in//Home/Iqac
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	**No File Uploaded**

INSTITUTIONAL VALUES AND BEST PRACTICES
7.1 - Institutional Values and Social Responsibilities
7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

St. Martin's Engineering College initiated good number of measures for Gender Equity. SMEC approximately has 30% of female staff and 46%female students. Women faculties are also provided with an opportunity to lead the departments as heads of the department and are given coordinator ship for several activities. Female students are encouraged to take part in all activities and to lead co-curricular and extracurricular activities. Students of the institution used to be sensitized on Gender - Equity through webinars, seminars and counseling and guidance sessions. The Institute celebrates "Women's" Day annually and motivates all the staff to organize discussions for understanding the role of women towards a progressive society. Female students are motivated and supported for various academic and non-academic activities.

Safety and Security:

The crux of the SMEC's modus operandi is to identify factors which carve the facts of safety and security of the privileged class of the college i.e, the girl students and the lady faculty .The prominence applied to this aspect defines the terms of reference towards the quality of education and conducive environment catered to in the college.

The competency and functionality architecture on which the safety and security measures are built as follows:

Precautions have been taken during transport, in the campus, canteen, library, sports area to monitor the movement of students and ensure safety of the students. Bus incharges monitor the safety of the students during transit. Every route has two bus in charges. During lunch hour faculty from all departments assigned duties to ensure safety. Closed circuit cameras are installed at various points to record the activities of the people moving in the campus.All students commuting to college in their two wheelers are instructed to wear helmets. Without helmets they are not allowed inside the gate. Health Care and Medical Emergencies - Students have

access to First aid facilities and wheel chair. Ambulance services are available on call. Scope for Grievance Redressal - Robust mechanism is in place for Grievance Redressal through Anti-Ragging Committee, Women Grievance Cell and Student Counseling Cell. Grievance cells ensure that quick solutions are given to the problems faced by girl students. As part of Women's safety, at our campus every faculty focuses on counseling to ensure they excel in all areas. The basic amenities are the protective and basic sources of safety in terms of health and hygiene for the women working and studying sector. The infrastructural amenities catering to this is found satisfactory as per the feedback given by the girl students. Regular instructions by external senior lady officials viz., Inspector of Police and Traffic Inspector helps in continuous progress and reviewing of updated rules and regulations for the young girls of the college.

The addressals by these officers of high order also provides the impetus and encouragement for the energetic young girls to safe guard themselves as well protect themselves from the wide public eyes.

Counseling:

Student Counseling Cell takes care of the counseling program. All students can avail the facility. Every department has two counselors who counsel the students. The students can contact any of the counselors in their respective department. The office provides a confidential atmosphere in which the students can explore any topic or situation and discuss any concerns they may have. The office offers free counseling to students on individual or group basis problems related to anxiety, stress and other career related problems can be discussed. The Counseling sessions by the allotted faculty counselors on a regular weekly basis helps to keep a check about the progress or regress in the status of the young students viz., mental and psychological. Precautions are observed that if any problems are hereby faced by the students, they are not escalated, which may prove to be risky in the future fr the students' parents. The feedback on their process contributes in repairing the system, enhancing the methodologies and affirming better relationships with every person in the intrinsic and extrinsic society within which the students dwell. The social and personal space between the boy and girl students as well between gender-specific

faculties is elaborately explained to the students .It is very well cautioned to the students to not overstep their steps, everything as a word of well-being of the students. Regular monitoring of the students who seek the help of the respective counselors is conducted to maintain a long term relationship and building confidence in these students that support is always given whenever needed. The counseling center is a "Home away from Home" for the students who feel lonely, depressed and isolated. Counseling spells a note of hope, concern and care - A symbol of acceptance and concern.

Personal and Mentor counseling

Mentoring/counseling is regarded righteous because the college consider the value of the students and perfecting their character .The college considers and wants the perspective of its valued customers the students on a variety of life challenges(both small and large; personal and formal).Mentoring /counseling is intended to be a long term relationships, with its privileged students.

Career Counseling

The aim of career counseling is to meet the objectives of its talent management ideas, which are to ensure that there is a talent flow that creates and maintains the required talent pool.

For instance:-

1. To give them the guidance, support and encouragement the student need to fulfill their potential and achieve a successful career with the organizations in tune with their talents and ambitions.
2. To provide those students with promise a sequence of experience and learning activities that will equip them for whatever level of responsibility they have the ability to reach.

Psychological Counseling:

The college functions with its students, on a balanced psychological level with the service provided by a specialized counselor in professional psychology. A dedicated counselor looks after counseling sessions from morning 09.00 am to evening 04.00 pm. The counselor diligently helps the students with physical, emotional and mental health issues, improves their sense of well-being and self-esteem, alleviates the feelings of distress (evolved through family problems, friendships, depression etc.). The counselor also provides assessment, diagnosis and treatment according to the severity of the psychological symptoms.

Common Room

Dedicated Common Room with good ventilation facility for female students with resting facilities has been created.In emergencies, a lady attender takes care of the students needs. Electric Sanitary Pad Disposal Machine is installed in the girls' common room. Specific cleaning schedule is given to the housekeeping people and followed meticulously. Girls' Common Room will be strictly adhered to the rules. Any violation in this regard will be deemed as misconduct.

Waiting halls with adequate facilities are provided in the college for students.Group counseling and personalized counseling sessions were organized continuously by female psychologists.Sanitary napkins are made available to them in waiting halls.

Space is clearly earmarked in canteen for girl students. One female student is nominated as member of IQAC and the lady alumina were nominated as members of Governing Body twice.Best lady student and Best Sportswoman awards were constituted.Further, female students can compete for "overall best out going student award.Females are representing female students in class Monitoring Committee.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://www.smec.ac.in//Council

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment	**A. Any 4 or All of the above**

File Description	Documents
Geotagged Photographs	[View File](#)
Any other relevant information	[View File](#)

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

St. Martin's Engineering College, Dhulapally, Secunderabad, affiliated to JNTUH, is a well known Institution and is offering 6 graduates. The serene campus is spread over 15 acres of land with state of art of laboratories, spacious and well ventilated class rooms. A large auditorium, modern conference hall, audiovisual room, gymnasium, playground and canteen are the additional facilities. SMEC has formulated a policy for ethical and sustainable waste management in the institution.SMEC has taken up waste management as a responsibility to protect environment and to provide a safe and healthy work environment for students, staff. The first step in waste management is to gain an understanding of the waste types being generated in order to design appropriate collection and disposal strategies. St. Martin's Engineering College Management ishighlyinterestedtomaintainthecampusaseco- friendly and energy conservative. Separate team is appointed for gardening, make the campus smoke free and clean environment. The Campus has about 258 trees and more than 487 small plants in 17 acres and a well-maintained lawn.Many steps aretakenforcontinuoussaplingoftrees, plant distribution program to the students, staff and the people to promote the awareness in the form ofHarithaHaramProgram,

creatingenvironmentalawarenessamongthestudentsand staff,wastewatertreatmentandsolid waste management.Various environment friendlyfactorssuchasWater,Air&Noise,Land, Parking,Flora& Fauna,SocioEconomic, Nursery, SolarSystemscontributeinmakinganeco- friendly campus.

Solid Waste Management:

St. Martin's Engineering College follows the practice of reducing solid waste as a part of this the solid waste is collected from the path way towards each and every block. All the solid waste from every department is collected at regular basic.

SMEC has removed hazardous waste materials like plastic, polythene and broken glasses are disposed properly to prevent the harmful effects on people and environment. Use of polythene and plastic is strictly prohibited at canteen and college premises. St. Martin's Engineering College a Plastic Free Campus, with an aim to measurably reduce plastic pollution, with a special focus on the reduction and ultimately the elimination of plastic bottles, plastic straws and utensils, and plastic food packaging to promote the use of eco-friendly cloth and jute bags. As an Initiation College conducted 'Say-No-To-Plastic' rally was conducted to spread awareness about the harmful effects of plastic, which all the volunteers of social outreach attended. In SMEC campus, the use of paper is greatly reduced. This is done by converting documents and other papers into digital form. College ran an awareness program to show students and faculty members how much paper they were wasting each semester. After tracking paper usage at print kiosks around campus, the college instituted a printing quota for each student, limiting them to 250 free printed pages per semester. After that, they would have to pay for their own printing.

The vegetable waste in the hostel and canteen are hazardous and trucks are being arranged to dispose the collected solid waste from departments as well as canteen regularly to keep the campus clean. Drinking plastic water bottles are not suitable for reuse they are very harmful for our health. At the same time burning of these may release harmful gases that cause cancer so in SMEC we implement planiture. Planiture is initiated by SMEC to create Wealth out of Waste to make plastic to be reused.

WOW (well being out of waste) is a recycle Initiative of ITC Ltd started in 2007 under corporate social responsibility with an objective to protect environment conserve natural resources to inculcate the habit of source segregation among the citizens. Building construction waste material like cement, concrete and sand materials are used for land filling in the campus. Waste segregation is the process of separating waste at the point of generation and keeping all types of waste separate during handling, accumulation, interim storage and transportation.

Liquid wate management:

Liquid wastes mainly consist of waste water from residential, commercial and industrial areas in towns and cities. This waste water contains many dissolvable unwanted and rejected substances. In cities and towns, waste water is transported through sewerage system having a network of underground pipes called sewers.

Dealing with liquid wastes is one of the biggest challenges of urban sanitation. Liquid waste management require skilled personnel, coordination between different departments and organizations, and awareness of the issues by the public. At St.Martin's Engineering College no hazardous or toxic waste is generated. The college is a litter-free area. Students are sensitized on this aspect and adhered to by them in letter and spirit.

At St. Martin's Engineering College the liquid waste management is practiced through the following ways successfully. The liquid waste from individual blocks is collected at sewage points of the concerned blocks and collected waste water take by the RRC People and transpotation provided on alternative days.

E- waste management:

E-waste is highly complex to handle because of its composition. It is made up of multiple components some of which contain toxic substances that have an adverse impact on human health and environment if not handled properly that is if improper recycling and disposal methods are deployed. So there is a need for appropriate technology for handling and disposal of these chemicals. E-waste is essentially in the form of electronic items which are rendered useless. Such

items are either repaired or returned to the suppliers for disposal as per the manufacturer's policy. Outdated computer systems and components are sold to the vendors who treat and dispose properly. The only e-waste generated is computer and peripherals and electronic equipment. The working outdated computer peripherals are replaced. . At St. Martin's Engineering College the E-waste is collected through arranging bins at fixed points in the individual blocks and the collected E-waste is sent to RRC. RRC will organize sorting of the E-waste into different categories and bailing appropriate disposal. RRC shall coordinate with ITC and undertake necessary measures for the dispatch of E-Waste.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geotagged photographs of the facilities	No File Uploaded
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	No File Uploaded
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered

A. Any 4 or All of the above

vehicles
3. **Pedestrian-friendly pathways**
4. **Ban on use of plastic**
5. **Landscaping**

File Description	Documents
Geotagged photos / videos of the facilities	**No File Uploaded**
Various policy documents / decisions circulated for implementation	**No File Uploaded**
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: 1. **Green audit** 2. **Energy audit** 3. **Environment audit** 4. **Clean and green campus recognitions/awards** 5. **Beyond the campus environmental promotional activities**	**A. Any 4 or all of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	**No File Uploaded**
Certification by the auditing agency	**No File Uploaded**
Certificates of the awards received	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms	**A. Any 4 or all of the above**

Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	[View File](#)
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	[View File](#)

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The institution being a private self-financing affiliated college has limited scope for having the students PAN India. However, to promote diversity among the students and faculty, the institution provides an ecosystem and enabling environment for the co-existence of the people coming from different culture, region, linguistic and other socio-economic diversities.

The institution has made efforts to provide an inclusive atmosphere that encourages peace, tolerance and harmony among students and faculty. By virtue of the admission process, students across the all districts of the state and cross sections take admissions based on the merit as per the state council guidelines apart from few from other states. Once a student gets admitted he/she will be provided equally with all the resources for bringing harmony and nurture for the holistic development. In order to ensure holistic development of students and staff, the institution encourages them to involve in community services to develop good citizenship.

The institution is increasingly involved in conducting the outreach programs for the welfare of the society and to create awareness among students towards social issues The staff and students belong to different communities like Hindus, Muslims, Christians etc. being their mother tongues different like Tamil, Telugu, Bengali, Hindi etc. the institution has a very effective approach to maintain tolerance and harmony even though they belong to different communities and with different culture by organizing the events which bring the harmony and integrity among the students.

Yoga, guided meditation sessions, seminars on human values are organized every semester to create coherent environment and respect for individual. To promote cultural and regional heritage with diversity SMEC arranges cultural programmes by people of eminence in several fields. SMEC FEST (JANKAR) is the annual festival conducted every year where students are exposed to various dance forms, different instrumental music and poetry.

Transparent governance with clearly laid own procedures and Practices is paving ways for the inclusive environment in the College. Faculty working in the college, who belong to various parts of the country and different religions, are the indicators of the inclusive environment. Students will be guided, motivated and groomed independent of their region, religion etc. Every student will have equal opportunity to be part of the co-curricular and extra-curricular activities and taking leadership in the events organized in SMEC.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	No File Uploaded

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The employees and students of SMEC are provided with awareness on constitutional provisions by conducting seminars and workshops by Advocates, Judges periodically. During the Induction Programme, Sessions were conducted on constitution. One course is designed on values, rights, duties and

responsibilities of citizens and offered in the curriculum as a credit course. Constitutuion of India (COI) and Professional Ethics subjects are included in the curriculum.

More than 50 number of NSS activities is conducted in 20-21 for sensitizing the public on social issues, inculcating the habit of social service among students. Students and staff used to extend financial help to the affected people in case of natural calamities.

Students are given encouragement and support to develop and provide technical solutions to local Villages and entrepreneurs, students developed equipment's, tools and solutions to support local formers, Poultry formers and Weavers in enhancing productivity of their concerns. Students are conducting Blood Donation Camps, Digital literacy Programmes.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	No File Uploaded
Any other relevant information	No File Uploaded

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized	A. All of the above

File Description	Documents
Code of Ethics - policy document	[View File](#)
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Independence Day:

The Independence Day celebrates every year on 15th August in front of M.G. Block. Our beloved Chairman Shri Laxman Reddy was the chief guest to the programme. At first, the Chairman Sir hoisted the national flag and described the national leader's sacrifices in attaining Independence, and he also emphasized the importance of healthy habits for a happy life in his speech.

Teacher's Day:

Teachers' Day is celebrated every year on 5th September. The programme was held at Swami Vivekananda seminar hall. The programme was graced by the Chairman Shri Laxman Reddy as the chief guest. Our college chairman spoke about the role of a teacher in reforming society in his speech. Principal Dr. P. Santosh Kumar Patra highlighted the teaching profession as the most sacred one among all professions. He also added that the teacher is the embodiment of knowledge.

Engineer's Day:

Engineer's Day is celebrated every year on 15th September. It was an apt event celebrated by young future Engineers. The students were eager to celebrate this occasion. Our Chairman,

Shri. M. Laxman Reddy and Executive Director were invited as the chief guest. The guests spoke on the importance of the day and how Engineers could help in the growth of a Nation. Students also were invited to speak on the efforts taken by them to develop the society.

Gandhi Jayanti:

Gandhi Jayanti is celebrated every year on 1st October, in a day advance as 2nd October was a holiday. Executive Director, Shri G. Chandra Shekar Yadav was the guest of honour. The Principal Dr. P. Santosh Kumar Patra explained about the preaching's of the great leader, followed by the Executive Director's speech in which the importance of "Truthfulness" was highlighted.

International women's day

International Women's Day is a global day celebrating the social, economic, cultural and political achievements of women. The day also marks a call to action for accelerating gender parity. Every year on March 8th women's is celebrated at SMEC to dispel the notion that they are inferior to men and to promote the gender equity.

Republic Day:

Republic Day is celebrated every year on 1st October the Chairman Hoisted The flag and made a speech on the occasion. Following this, The Principal and a few faculty members made speeches on the importance of Republic Day Celebrations as a national festival.

National Science Day:

The National Science Day is celebrated on every year on 28th February. Our Chairman, Shri Laxman Reddy was invited as the Chief Guest for the programme. The Principal highlighted the genius of young minds in creating scientific ventures in his fable blended speech. The executive director explained about the present trends in science and technology. Department HOD's spoken on the efforts of technocrats.

Dr. B.R. AMBEDKAR:

Ambedkar Jayanti is celebrated on 14th April. As it was a

holiday. The celebration of the occasion had been conducted a day in advance i.e., 13 April. our beloved Chairman followed by his speech. The Executive Director and the Principal highlighted the services of the leader for the upliftment of all the backward people of India.

NATIONAL YOUTH DAY:

Swami Vivekananda's birthday 12th January every year is observed as "National youth day" on this occasion in St. Martin's Engineering College, a programme was conducted, and our beloved Chairman was chief guest and he gave message on the importance of health.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	No File Uploaded
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

BEST PRACTICES BEST PRACTICE I

Title of the Practice An Integration of Innovations, Enlightening Technical Skills to Manifest into Career Building: AHub of Technology for Prosperity.

Objectives of the Practice

a) To enlighten skills and bring awareness about latest technologies, industry requirements and overallpersonality development.

b) To help in Career Visioning and Nourish the Designing and Innovative skills, paving way towardscareer in core companies.

c) To gain a competitive advantage by developing technical

skill sets that is in demand.

d) To meet the demand for Business entrepreneurs, Innovators, Creative thinkers to Society where data is central to Research, Teaching and Business.

e) To influence contacts with industry and improve interdisciplinary training of technical skillscollaborate with training companies for domain-specific employability.

The Context: In Engineering context, the outcome of innovation is the fruit of creative process which takes forms fromabstract Technical concepts, Patents, Algorithms, data models to Mechanical and Architectural patterns and functional prototypes. Innovation Engineering is to enable and strengthen engineers regarding Technological innovations whichoccur when need arises or opportunity presents having important implications for engineering practice andengineering education in the future. The main approach is the identification of skills and capabilities engineers should have, in order to actsuccessfully in field of Innovation, expected by enterprises and companies.

The Practice:

Technology Awareness Month (TAM) Technology Awareness Month (TAM) conducted every year by student volunteers with support of collegeshowcase the innovation and bring students closer to the edge of technology.The program adds value to theoverall growth prospects, crafted with modules that involve interactive and skill developing events likeQuizzes, Rapid Idea Group Discussions, Technical Workshops, Mock UN (United Nations), YouthParliament and Guest lectures.

Domain Specific Training Domain specific theories hold that we have many independent, specialized knowledge structures, ratherthan one cohesive knowledge structure. Training in one domain may not impact another independent domain. These are designed specifically to prepare students to use, reuse and contribute quantitative andqualitative analytical methods, used in innovating products.Value Added Education (VAE) Value Added Education provides additional learner centric and skill oriented technical training, with theobjective of improving employability skills of students. Courses offered are choice based on current trendsand training and guidance is provided to the students on the various aspects of building career and

assistthem in exploring new opportunities. Certification Courses A variety of short term certificate courses are conducted after class hours or during semester breaks.Thesecourses are conducted by professionals and industry experts each course has its own assessment pattern,both practical and theoretical. Successful completion of the course earns the students certification issued bythe college. It predicts higher chances in campus placement opportunities. Task Skill Development Vocational Training Program: Relevant and accessible training to amplify the quality of organizational skills and technical training of thestudents is provided. Career Guidance: Career Planning for various career options assisted the students with career choice, job research, jobplanning, understanding self talent and job interview tips.

Aptitude Training Soft Skills Aptitude and ability tests are designed to spruce the logical reasoning and lateral thinking, and inculcatefactors like numerical reasoning, verbal reasoning, abstract reasoning, speed, and accuracy.To hone Soft skills crucial for delegating and team building among the students, training in various taskssuch as team work, adaptability, problem solving, leadership, communication skills, work place ethics,interpersonal skills, social and emotional intelligence, cognitive or emotional empathy andtimemanagement is rendered.

Campus Recruitment Training Program (CRT) Campus Recruitment Training Program is exclusively designed for students' recruitment in reputedcompanies. The CRT system consists of a student login, an admin login and also consists of acompanylogin where in various companies visiting the college can view the list of respective college students andtheir resumes.

Finishing Schools Finishing school focuses on teaching social graces and upper-class cultural fusion to the young people. It isan intelligent combination of training, technology and fun in learning. Fresh graduates are molded intopriced assets ready to face any challenge head-on.

Technical Seminars The faculty takes interest in conducting seminars to their students by inviting eminent personalities whohave achieved some feat in science and technology to take seminars for the students which helps them tointeract with present and ongoing advancements in technical fields.

Micro Projects Micro projects create a self training program that serve as a basis for students and future employers instarting and running or working in an industry. The concept of micro projects is a way to show progress,deliver real impact in a short time frame and control resources that is beneficial to the industry they serve. 1.Entrepreneurship Development Cell (EDC) The mission- "Start Up India" promotes the spirit of entrepreneurship among students through education,research and training sessions. EDC provides mentoring opportunity through its network. Students standbenefitted by the experience of these initiatives. The association includes professionals, entrepreneurs,investors, and Industry experts.

Start Up Mentorship assistance for the start-ups of the student entrepreneurs is provided by inviting the Governmentofficials from DIC, TIIC, MSMEs, EDIs, successful alumni entrepreneurs and related field experts.Internal facilities such as learning resources, laboratory facilities, workshops, SIPP (Student InnovativeProject Proposal), organizing start-up festivals, RD activities, new product development, re-engineering,market research, validating proof of concept and subsequently assisting them to cover costs likecertification and manufacturing pilot services etc.

Evidence of Success The Technology Awareness Month (TAM) proved successful by the enormous participation level of thestudents in the intellectual activities conducted such as the Gadget quiz, Debug and decrypt quiz,Circuitronics quiz etc. Current technology and innovations were visualized by workshops conducted onPython, Aurbindo, Html and CSS.Treading on the lines of employability capabilities, career guidance program focused on career choice, jobsearch, interview tips vocational training programs on telecommunication, autocad, photovoltaic system,digital marketing, web designing and animations, enabled students across the branches to stretch theirtechnical skills into viable integrated and innovative career options. Students optimally used programs of soft skills, CRT, Finishing Schools to sculpt their personality trait sand managerial skills, thus whetting their communicative and competitive spirit and enthusiasm promptinga positive feedback and impetus, heralding further such endeavors.

Problems Encountered and Resources Required

a) Motivating and encouraging students to concentrate on innovation and entrepreneurial activities.

b) Providing repositories comprising teaching-training materials, data resources, lab activities, analysis and demonstration.

c) Providing assistance to start-up student entrepreneurs by inviting Government officials, alumni entrepreneurs and other related field experts.

d) Sponsoring basic start-up costs such as RD and Certifications.

BEST PRACTICE II

Title of the practice Ingrain Discipline, Human Interaction and Universal Values among the students through Community Orientation Activities

Objectives of the Practices

a) To model a new student orientation program that builds foundation for development of communitylearning

b) To create an atmosphere that minimizes anxiety, promotes positive attitudes, and stimulatescuriosity for learning

c) To emphasize importance of being involved in community orientation programs and taking responsibility for growth and humanity development

The Context The vision is culminated to inculcate moral values and build positive perception towards communityorientation activities in the minds of the students. Good relationship with the community makes the students aware of universal values and helps them to design their career by meeting both learning andcommunity goals.

The Practices

Blood Donation Camp Blood donation is organized every year and provides a global platform to celebrate individuals, who donateblood voluntarily, for altruistic reasons and without

any monetary reward. The NSS wing of SMEC organizes this event with help of Red Cross Society of India. Sri Marri Laxman Reddy, the Chairman and the Executive Director Sri Chandra Sekhar Yadav encourage the students to takeactive part and take an oath on Blood Donation and social welfare activities.

Objectives: Students can improve someone's health by being a donor of blood. Donating blood has benefits not onlyby offering physical health but also is sharing psychological emotions:

a) Reduces stress

b) Improves emotional well-being

c) Benefits physical health

d) Provides a sense of belongingness and reduces isolation

e) Lower risk of cancer and heart diseases

Street cause For the past seven years, the students of St. Martin's Engineering College students have been activelyparticipating and contributing in a large scale. Students from all years have joined this cause. Usually,students who choose to do community service become volunteers as they chose voluntarily to help. StreetCause is an NGO comprising of enthusiastic students who intend to give back to the society and bringabout required change.

Objectives:

a) To help underprivileged, such as orphans, elderly, unemployed and differently abled, to live theirlives in the best way possible.

b) To rehabilitate street children into mainstream society.

c) A Life without a Cause is a Life without an Effect." can be seen distinctively in the students. Women Empowerment Women Empowerment Cell plays an important role for the girl students and lady faculty members withGender Equity programs conducted to showcase special skills of these students.

Objectives:

a) Conduct activities to bring balance in lives of girl students.

b) Create awareness about women's rights

c) Educate girl students in building self confidence and self esteem

File Description	Documents
Best practices in the Institutional website	https://smec.ac.in//assets/images/criteria/7.2.1.pdf
Any other relevant information	NA

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Institutional Distinctiveness:

EFFECTIVE PLACEMENTS FOR CAREER BUILDING OBJECTIVES

a) The goal of Training Placement cell is to provide students with a platform for utilizing their potential to gain valuable experience through working for Industry.

b) It also acts as the Interface among various companies seeking talented young graduates fromvarious disciplines.

c) To place students in Prospective IT Core companies.

d) To help the students developing a passion to win with a global mindset.

e) To assist students developing their academic and career interests, and their short as well as long-term goals through individual counselling and group sessions.

f) Maintaining and updating the database of students, maintaining database of companies and establishing strategic links for campus recruitments.

Collecting information about job fairs and all relevant

recruitment advertisements coordinating with companies to learn about their requirements and recruitment procedures Identifying the needs and expectations of the companies to assist them in recruiting most suitable candidates. Organizing pre-placement training classes, workshops, seminars for students and arranging periodic meetings with HR Department of companies and TPOs to promote recruitments. ? To assist students for Industrial training and to obtain placements at the end of the fourth and sixth semester. ? To act as a bridge between students, Alumni, and the Employment community. THE CONTEXT St. Martin's Engineering College has a vision "to become an Institute of excellence by creating high Quality and Innovating engineering professionals. St Martin's Engineering College is providing sufficient practical exposure to the students to create action plans and execute the solutions in accordance with thedynamic and competitive external environment. In order to promote Technological, Intellectual and ethical Environment to the students with an in-depth and exceptional education that makes students employment ready as per the emerging trends in Industry, StMartin's engineering college invokes the desire of Innovation as process of life-long learning for their successful career in engineering. THE PRACTICE In St Martin's engineering college there is an independent Training and Placement wing which provides all possible assistance to all students who are going to face the challenges of world competition. StMartin's engineering college focuses on the Personality Development of the students. Keeping in view the Industry requirements, curriculum is designed for preparing the students for entry-level Graduate Engineer Trainees. This Institution provides all facilities to learn Interview skills byconducting Mock-interviews. There are soft skills trainers, who help the students to learn soft skills fortheir employment purpose.

Some of them are as follows:

a) Personality Development

b) Communication Skills Vocabulary

c) Resume Preparation Email Writing

d) Group Discussion

e) Interview Skills

f) Aptitude Training Practice Tests

EVIDENCE OF SUCCESS

The College has a record of over 90% of students being placed in top MNCs and IT giants all over the country. The statistics of the placements in the last five years: 708 Students in 2020-21, 706 students in 2019-2020, 704 students in 2018-19;702 students in 2017-18; 673 students in 2016-17. In the recent placements our students have been placed with Rs.27 Lakhs per annum package in AMAZON. Also, our students have bagged offers with high packages in IBM, Microsoft, IBI & BYJU.

File Description	Documents
Appropriate link in the institutional website	https://smec.ac.in//assets/images/criteria/7.3.1.pdf
Any other relevant information	**No File Uploaded**

7.3.2 - Plan of action for the next academic year

FUTURE PLANS OF THIS INSTITUTE To start new UG programmes in upcoming technologies: Considering the demand and growth of technical education in present scenario, the institute is planning to start new programmes in UG by name: Artificial intelligence & Machine Learning (AI & ML), Artificial Intelligence & Data Science (AI & DS), Computer Science and Design (CSD), Mtech. in AI&DS. To get Funding Projects: Planning to get more research projects from different government and non government funding agencies. To improve Academic Activities: Planning to improve the number of conferences, Faculty Development Programs, Seminars and Workshops conducted in the coming Academic Year To Establish Technology Business Incubation Centre: At present industrial growth is satisfactory in Hyderabad region and in future it will be accelerated. Therefore, there is considerable scope for innovations and consultancy from the nearby industries. It is planned to establish TBI Centre with all latest and hi-tech equipment to fulfil the requirement of nearby industries in respect of testing calibration, consultancy, research, etc. To obtain better NIRF and ATAL Rankings: The institute already obtained ATAL rankings and NIRF rankings. Planning to get better in both NIRF and ATAL rankings. Upgrading of

Hostel for 500 Students Capacity: Considering the present/future intake of this institute, it is essential to build a hostel. Therefore, this institute has planned to upgrade the Hostel of capacity around 500 students. To establish New Computer Center : A new Computer center is planned for the support the placement training programs. Expanding Street Cause activities to more areas: Our street cause team is supporting poor and needy people across the city. This year we re planning to cover more areas in Telangana State.