St. MARTIN'S ENGINEERING COLLEGE

UGC - Autonomous

DHULAPALLY, SECUNDERABAD-500100

Submission of Annual Quality Assurance Report (AQAR)
2019 - 2020

Yearly Status Report - 2019-2020

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 own campus	**Yes**
Phone no/Alternate Phone no.	**+917997267788**
Mobile no.	**9000444578**
Registered Email	**principal@smec.ac.in**
Alternate Email	**director@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**

Pincode	**500100**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**26-Sep-2019**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr.S.V.S.Rama Krishnam Raju**
Phone no/Alternate Phone no.	**+919703050004**
Mobile no.	**8309141486**
Registered Email	**deanacademics@smec.ac.in**
Alternate Email	**hodmech@smec.ac.in**

3. Website Address

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

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.smec.ac.in//assets/images/other/ac%2019-20.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A+**	**3.26**	**2019**	**01-May-2019**	**30-Apr-2024**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**14-Aug-2013**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries

IQAC			
Plant for the Planet Project (PPP)	26-May-2020 2		200
Conduct of Energy Audit in Insititute	20-May-2020 2		10
National Technology Day	11-May-2020 1		200
World IP Day	26-Apr-2020 1		250
Preparing Research proposals	24-Feb-2020 1		56
Two day Workshop on Active learning Pedagogies & Technologies	18-Jan-2020 2		300
Motivational lecture on GATE	12-Dec-2019 1		750
Seminar on Research Methodology, Research and funding proposals	10-Oct-2019 2		210
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
St. Martin's Engineering College	2(f) 12(B)	UGC	2015 3650	0
St. Martin's Engineering College	Autonomous	UGC	2019 3650	0
St. Martin's Engineering College	NAAC A+	NAAC	2019 1825	0
St. Martin's Engineering College	NBA (EEE & IT)	NBA	2020 1095	0
St. Martin's Engineering College	UGC PARAMARSH	UGC	2019 730	2812000
St. Martin's Engineering College	MSME INCUBATION CENTER	MSME	2020 365	10000000
St. Martin's Engineering College	GHMC 3RD PARTY CONSULTANCY	Greater Hyderabad Municipal Corporation (GHMC)	2019 365	4440000000

9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	
10. Number of IQAC meetings held during the year :	**3**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

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

1. UGC Autonomous Status for 10 years 2. Accredited by NAAC with A grade 3. UGC Paramarsh 4. GHMC 3RD PARTY CONSULTANCY 5. MOU's with Various Industries

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Conduction of Energy Audit	**Conducted during 20 May 2020 to 21st May 2020 and the substantial savings energy have been recorded with the implementation of Energy Conservation Methods.**
Conduction of Green Audit	**Conducted during 23rd June 2020 to 24th June 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**
Sensitizing faculty Technologies to Industry 4.0	**Conducted various guest lectures on latest technologies**
Department wise Conference/Seminars	**In the Year of 2019-20 we Conducted**

	Many National/International Conferences and Seminars
T&P Cell Activities Discussed In IQAC Meeting And Recommended For Campus Recruitment Training for the students to enhance their employability skills	Effective CRT Programmes And Company Specific Training Programmes Conducted For Improving Placements
The committee discussed and planned to organize workshops and guest lecturers in all departments through online and in advanced areas for student/faculty development.	Conducted Many Workshops And Guest Lectures in All The Departments on Emerging Technologies During 2019-20
The Library Committee activities discussed in IQAC Meeting and the Principal advised the committee members to upgrade the Library facilities constantly with latest e-journals, magazines and e-books and more number of titles and number of books and also to encourage reader ship among the students	New volumes and titles & E-books and Journals have been added to the Library

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14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
Governing Body	20-Nov-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	31-Jan-2020

16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	16-Mar-2020

17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	The institution implements the ERP modules to generate various MIS reports for the efficient decision making. 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

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	A01	CIVIL ENGINEERING	21/11/2019
BTech	A02	ELECTRICAL AND ELECTRONICS ENGINEERING	21/11/2019
BTech	A03	MECHANICAL ENGINEERING	21/11/2019
BTech	A04	ELECTRONICS AND COMMUNICATION ENGINEERING	21/11/2019
BTech	A05	COMPUTER SCIENCE AND ENGINEERING	21/11/2019
BTech	A12	INFORMATION TECHNOLOGY	21/11/2019
MBA	1E	MANAGEMENT	21/11/2019
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	CE	23/11/2019	INTELLECTUAL PROPERTY RIGHTS- MC509	23/11/2019
BTech	EEE	23/11/2019	INTELLECTUAL PROPERTY RIGHTS	23/11/2019
BTech	ME	15/07/2019	Entrepreneurship Development Programme - ME601	15/07/2019
BTech	ECE	21/11/2019	Intellectual Property Right - MC510	21/11/2019
BTech	CSE	16/12/2019	Total Quality Management - ME831OE	16/12/2019
BTech	IT	16/12/2019	Intellectual Property Right - MC510	16/12/2019
MBA	Entrepreneurship	18/01/2020	Start up Management-19MBA19E1	18/01/2020
MBA	Entrepreneurship	18/01/2020	MSME Management-19MBA20E2	18/01/2020

MBA	Entrepreneurship	18/01/2020	Family Business Management-19MBA21E3	18/01/2020
MBA	Entrepreneurship	18/01/2019	Entrepreneurial Finance-19MBA24E4	18/01/2020

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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	ECE	20/02/2019
BTech	EEE	20/06/2019
BTech	CE	20/06/2019
BTech	ME	01/08/2019
BTech	CE	20/06/2019
BTech	EEE	20/06/2019
BTech	EEE	01/08/2019
BTech	CSE	01/08/2019

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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020

MBA	MBA	18/01/2020
BTech	CE	20/06/2019
BTech	CE	20/06/2019
BTech	CE	20/06/2019
BTech	CE	20/06/2019
MBA	MBA	23/11/2019
BTech	IT	29/07/2020
BTech	ME	20/06/2019
BTech	EEE	21/11/2019
BTech	ME	08/01/2019
BTech	CSE	21/11/2019
BTech	ECE	21/11/2019
BTech	ECE	21/11/2019
BTech	CSE	21/11/2019
BTech	ECE	21/11/2019
BTech	ECE	21/11/2019
BTech	CSE	15/07/2019
BTech	CSE	15/07/2019
BTech	CSE	16/12/2019
BTech	CSE	15/07/2019
BTech	CSE	15/07/2019
BTech	CSE	16/12/2019
BTech	CSE	15/07/2019
BTech	CSE	16/12/2019
BTech	IT	20/06/2019
BTech	IT	20/06/2019
BTech	IT	20/06/2019
BTech	IT	20/06/2019
BTech	IT	20/06/2019
BTech	IT	20/06/2019
BTech	IT	20/06/2019
BTech	IT	20/06/2019
BTech	IT	20/06/2019
BTech	IT	20/06/2019
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020

MBA	MBA	18/01/2019
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
MBA	MBA	18/01/2020
BTech	EEE	20/06/2019
BTech	EEE	20/06/2019
BTech	EEE	20/06/2019
BTech	MBA	08/01/2019

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Staad pro	22/09/2020	40
Etabs	23/01/2020	45
Mat Lab PSPICE	12/09/2019	130
Entrepreneurship Development Programme	26/08/2019	132
Advanced Auto CAD and CFD analysis	23/11/2019	310
Hypermesh	16/12/2019	118
Machine Learning and Internet of things	23/11/2019	300
Technical Skill(coding)	01/05/2020	53
Strategic HRM	06/12/2019	78
Deep Learinig and its Applications and AI ML	23/11/2019	300
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	ECE	196
BTech	CSE	583
BTech	IT	176
MBA	MANAGEMENT	185
BTech	CE	143
BTech	EEE	72
BTech	ME	205
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.	
Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

The Institute collects the feedback physically from stakeholders viz. Students for every semester and also from exiting students, Parents through parents teachers meet once a semester, and Faculty on Curriculum which is prescribed by the university. The college conducts annual Alumni Meet, in which suggestions and feedback is received from Alumni students. Feedback from Employers and industrial management, RD establishments and professionals is obtained through college website's feedback blog. The provided feedback data is evaluated on a five point scale and presented to the Academic Coucel Meeting for necessary implementation in curriculum and continuous improvement of the system. Feedback collected and analyzed The feedback data is analyzed and placed before the Academic Audit Committee for discussion and for possible incorporation in the curriculum. Syllabus Review is given by the concerned subject faculty at the end of semester with regard to implementation of syllabus, mode of presentation, lecture material, suggested books, and updated information. Curriculum Overview is an expositive survey done by every out-going batch with regard to syllabus designing, faculty sufficiency, campus placements, and infrastructure. Academic Audit Committee is formed to assess three major aspects, viz., Faculty Performance, Students Support System and Evaluation. The periodical review meeting is conducted to review the following: IQAC organizes various Faculty Development Programmes in order to enrich the competency level and teaching methods of faculty members. Apart from this, management supports student involvement through seminars, student's innovations for the further development of curriculum. Action Taken on Feedback from the stake holders After collecting and assessing the feedback from the various stake holders on curriculum aspects, the valuable suggestions if any, will make notice to the university curriculum committee to make possible changes in the course structure for the next curriculum regulation. The functioning of various committees of the College strengthens the quality. Curriculum is enriched through mini projects/ student conferences/symposiums and innovative club in the college. The analysis for each question has been considered. In general, the feedback has been positive with all stakeholders expressing satisfaction with the outcomes. The responses have been positive with respect to content, design, workload and applicability as well as with inclusion of advancements. Subjective feedback provided by a few respondents have been studied and collated. Only those suggestions pertaining to curriculum content and design have been considered. The relevant and specific suggestions given have been listed out and has been submitted to the IQAC. Following Curriculum Aspects to enrich the curriculum are to be included in future: • Flexible and CBCS to learn soft core elective courses, professional elective courses and open elective courses offered across the departments. • Value added courses and certification courses. • Courses on communication skills / Professional ethics / Environmental Engineering, and Employability Skills. • To Design extra experiments beyond the list of experiments given in the university syllabi in many laboratory courses thereby stimulating creativity and innovation in students. • Exposure to the industry environment by taking the students to

industrial visits and making them do internships.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	MBA	120	271	108
BTech	IT	60	346	60
BTech	CSE	240	1054	240
BTech	ECE	240	693	215
BTech	ME	180	241	110
BTech	EEE	60	102	50
BTech	CE	120	331	120
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	3630	190	250	16	10

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
266	266	15	72	8	17
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

Number Of Students Per Mentor:-20 We introduced an innovative process called Integrated Mentoring through counseling book. The aim is to initiate the students to the academic environment, guide, motivate and train all students achieve their goals. This program enables each student to become proactive in defining their own goals and bring out inherent talent. We adopt the policy of inclusiveness of all the categories of student's different performance levels, in providing the opportunities, keeping intact the unbiased social justice to all the students. Mentoring Objectives Provide the students with the most congenial environment to enhance their growth and help to achieve their goals. Groom the student into a confident, competent, self disciplined individual, fully equipped with academic prowess, practical acumen and strong personal skills. Assist the students who need extra support to maximize their learning outcomes. Mentoring Framework The mentors are faculty members appointed by the HOD Each mentor is attached to group • Behavioral aspects of mentee • Academic issues • Career Guidance etc Each mentor duty includes 1. Fill the student's Academic and Personal Profile. 2. Meet the mentee once in a month. 3. Submit the report to HOD /immediately if emergency arises. Mentoring Sessions The mentor monitors the updating of the academic and attendance details and any other information regarding

activities, in the blue books weekly. Each Mentor will provide timely counseling and advice to the student mentee in all aspects namely, Academics, CCA, ECA etc. They will communicate the issues with the Head of the Department for corrective measures if any. Counseling calls are done to parents to inform about their ward regularly. Parent teaching meeting is conducted once in semester to know about the student behavior and guide the student and to interact with the mentee's parent. Efficacy of Mentoring System • Increase in students' attendance • Improved and positive relations between students and faculty • Faculty is aware of the students' academic interests and advise them accordingly to select either project work or to prepare for campus interviews and so on • Helps faculty to guide students to pursue their career goals. Program Rules: 1. Discussions between mentor and mentee are confidential. The mentee's personal or family life may be difficult to discuss, particularly early in the relationship. 2. If a particular situation or concern is beyond mentor's ability to handle, it will be raised to the HOD, Principal or Secretary depending on the nature of the problem.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3820	266	1:14

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
214	266	Nill	43	38

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. P. Santosh Kumar Patra	Principal	Dronacharya Award
2019	Dr. P. Santosh Kumar Patra	Principal	Young Leader of the Year 2019
2019	Dr.DV Sreekanth	Professor	Lions Club Best Researcher
2019	Dr. Elavarasi	Professor	Best Researcher
2019	Dr.B. Hari Krishna	Professor	Research Scientist
2019	Dr.Anand Anbalagan	Professor	Best Researcher
2019	S.P.Manikanta	Associate Professor	Lions Club Award
2019	Dr. Siva Prasad	Associate Professor	The Fund raiser, Best Researcher
2019	Dr. P. Udaya Kumar	Professor	Life Time Achievements National Award
2019	Dr.S.V.Achuta Rao	Professor	Best Researcher
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	01,02,03,04,0 5,12	I/II	14/12/2019	17/02/2020
BTech	01,02,03,04,0 5,12	I/III	14/12/2019	17/02/2020
BTech	01,02,03,04,0 5,12	I/IV	14/12/2019	07/02/2020
BTech	01,02,03,04,0 5,12	II/II	27/12/2020	Nill
BTech	01,02,03,04,0 5,12	II/III	27/12/2020	Nill
BTech	01,02,03,04,0 5,12	II/IV	19/09/2020	01/11/2020
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
69	3790	2

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://www.smec.ac.in/assets/images/aqar/2.6.1%20weblink.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
1E	MBA	MBA	82	70	84.72
12	BTech	IT	53	45	84.98
05	BTech	CSE	254	181	71.37
04	BTech	ECE	196	179	90.5
03	BTech	ME	155	117	71.6
02	BTech	EEE	59	56	94.0
01	BTech	CE	115	109	93.47
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

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

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money
Dr.Shivmanth
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	M. Bhojendra Naik	BEST PROJECT	27/09/2019	NIRD PR
National	Dr.C.Elavarasi	BEST THESIS	06/11/2019	Pondichery Central University
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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Industry sponsored Projects	365	Masters Management consultannts	2.5	2
Industry sponsored Projects	365	Haul Innovation Pvt. Ltd, Road Number 10C, Jubilee Hills, Hyderabad, Telangana	4.8	3.2
Industry sponsored Projects	365	TEXTUS info soluions pvt ltd	4.1	3
Industry sponsored Projects	365	Apps Associates, Hyderabad	4.6	2
Industry sponsored Projects	180	Masters Management consultannts	3	0.75
Industry sponsored	1095	LASYA IT INFORMATIC	5.2	2.2

		Projects		
Industry sponsored Projects	273	Devi Electronics	5.1	1.2
Industry sponsored Projects	1095	Science and engineering research board in (SERB) Govt. of India	21.46	7.5
Industry sponsored Projects	365	Future Step	2.56	2.56
Industry sponsored Projects	365	Gourav Engineers	2	2
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

15

3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
IOT in manufacturing	ME	04/12/2019
workshop on IPR and its relative trends	CE	18/11/2019
Risk Management Tools	MBA	07/11/2019
Seminar on Total Quality Management	EEE	18/05/2020
Seminar on Intellectual property and public policy issues	EEE	28/10/2019
Micro Manufacturing Techniques	ME	15/06/2019
3D Printing and its applications	ME	05/09/2019
Emerging Trends in Concentrated Solar Technologies	ME	07/06/2019
Five days Faculty Development Program on "Recent Communication Tools and its Application"	ECE	19/03/2020
Workshop on MS Office	CSE	06/09/2019
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Electronic Brail reader	1st Prize	MRCET	31/10/2019	National
ButterCup	2nd Prize	A-Hub Hackathon	31/08/2019	National
Obstacle Avoiding Robot	2nd Prize	George Mason University Virginia,USA	13/04/2020	National
Voice controlled wheel chair with 5 degrees of freedom	3rd Prize	CMRIT	25/10/2019	National
Environmental Sustainability Hackathon	1st prize	JNTUH	08/02/2020	National
Agricultural and Rural Development	NIRD PR	RISC-2019	28/09/2019	National
Dr. Kalam Innovation Festival-	JD Foundation	Join for Development Foundation	14/10/2019	National
NIRD PR(Rise 2019)	1st prize	NIRD PR	27/09/2019	National
NIRD PR(Rise 2019)	2nd prize	NIRD PR	27/09/2019	National
NIRD PR(Rise 2019)	3rd prize	NIRD PR	27/09/2019	National
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	MSME Incubation	St.Martins Engineering Colege	waste to wealth	Generation of the plastic granuels from the campus	07/07/2019
2	Frontline Electronic Engineers Incubation Unit(FEIU)	St.Martins Engineering Colege	Center Of Excellence with Advanced Tools $ Equipment	Smart and Innovative Electronics	01/02/2020
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded

CE	Nill
EEE	Nill
ME	1
ECE	2
CSE	Nill
IT	3
MBA	Nill

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	CE	22	0.2
International	EEE	39	0.7
International	MECH	70	0.3
International	ECE	197	1.2
International	CSE	204	0.9
International	IT	54	0.7
International	MBA	13	1.5
International	SH	91	0.4
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
CE	46
EEE	32
MECH	118
ECE	185
CSE	157
IT	35
MBA	43
SH	86
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Portable Air Conditioner for Vehicles	Published	201941035581	18/10/2019
Design and Fabrication of Electric Smart bike with Voice Recognition	Published	202041018099	29/05/2020
A Novel design	Published	202041024264 A	19/06/2020

for muffler chambers by incorporating baffle plate			
Manufacturing of 3D Delta concrete printer	Published	202041021899 A	29/05/2020
Development of smart wheel chair with fork lift for physically challenged persons	Published	202041021458 A	29/05/2020
Manufacturing plastic bricks from regular plastic waste	Published	202041018985 A	29/05/2020
Development of automatic seed sowing machine by using Arduino	Published	202041018982 A	29/05/2020
Development of semi automatic Abrasive Jet Machine by using CNC programming	Published	202041017544 A	29/05/2020
Intelligent Methods for Detecting Coronavirus using RNA and Share the Location using IOT	Published	202041015044	22/05/2020
MACHINE LEARNING BASED COMPUTER IMPLEMENTED METHOD FOR PREDICTION OF ARTIFICIAL OIL LIFT FAILURE	Published	201941040094 A	18/10/2019

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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Transmission system regularization with 5-level cascaded IPFC	G Sridhar Babu	IJPEDS	2019	6	St.Martins Engineering College	6

Effect of boron and carbon addition on microstructure and tribological properties of metastable beta titanium alloy, Ti-10V-2Fe-3Al	Dr Ravinaik Banoth	IEEE	2019	6	St.Martins Engineering College	33
Metal Removal and Kerf Analysis in Abrasive Jet Drilling of Glass Sheets	Dr. D V Sreekanth	IEEE	2020	6	St.Martins Engineering College	143
IOT in Distribution grid using DSTATCOM	Dr.N Ramchandra	IEEE	2019	5	St. Martins Engineering College	5
Electronic band-gap integrated low mutual coupling dual-band MIMO antenna	Maturi Thirupathi	International Journal of Electronics	2020	1	St. Martins Engineering College	1
[View File](#)						

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
IOT in Distribution grid using DSTATCOM	Dr.N Ramchandra	IEEE	2019	4	5	St. Martins Engineering College
Metal Removal and Kerf	Dr. D V Sreekanth	IEEE	2020	8	143	St. Martins Engineering

Analysis in Abrasive Jet Drilling of Glass Sheets						College
Transmission system regularization with 5-level cascaded IPFC	G Sridhar Babu	IJPEDS	2019	1	6	St. Martins Engineering College

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	51	963	201	12
Attended/Seminars/Workshops	39	723	115	23
Attended/Seminars/Workshops	3	54	36	10
Attended/Seminars/Workshops	14	78	32	16
Attended/Seminars/Workshops	30	302	60	60
Attended/Seminars/Workshops	2	153	85	17
Attended/Seminars/Workshops	7	305	240	56

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
CE	GHMC, Third Party Quality Control	GHMC, Hyderabad, Telangana	826613
EEE	Mission Agriculture	SUREGROW FARMS	315000
MECH	Development of coordinate drilling machine,Automatic seed sowing machine with solar power	J.K Industries,Monika Industries	280000
ECE	Intelligent accident prevention for two	HACKBOATS	310000

CSE	Apartment Management System,Online Venue Booking,Leave Management System	Tera Data,Cyient Technologies,Tecra System Pvt.Ltd	375000
IT	Development of Tool for Detection of Application Layer DDoS Attacks on Web Applications	Consultancy / Haul Innovation Systems, Hyderabad	650000
MBA	Employee satisfaction at care group of hospitals, hyderabad,General insurance cliam management with special reference to motor third party cliams in public sector insurance companies ,A study on online advertisement management	Masters Management consultannts ,Masters Management consultannts ,TEXUS info soluions pvt ltd	960000

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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
MECHANICAL ENGINEERING	Development of coordinate drilling machine	J.K Industries	1.8	5
MECHANICAL ENGINEERING	Automatic seed sowing machine with solar power	Monika Industries	1	5

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3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
JEEVAN – Donation of PAPER PLATE MAKING MACHINE at Amma Cheyutha Foundation,Mansoorabad, LB Nagar	SMEC-Street Cause, Hyderabad	4	100

Corporate Soldiers	HMA	1	180
Digital Marketing	SUN KPO Systems LLP	2	88
NSS	Haritha Haram	25	1270
Prabhaav-phase 1 – Repairing of Drainage system pipes and Distribution of pedestal fans at Kamalamma Old Age Home	SMEC-Swecha, Hyderabad	2	80
Donation of Black Boards and Sports equipment to ZPH School, Ghatkesar	SMEC-Street Cause, Hyderabad	2	70
NSS	NSS ACADEMY	2	40
NCC	NCC ACADEMY	2	30
BloodDonation Camp	INDIAN RED CROSS SOCIETY	2	60
Stem Cell donation	INDIAN RED CROSS SOCIETY	2	105
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NIRD PR	RISC-2019	Central Government	15
Organizing Agency /InstituteName	Dr. Kalam Innovation Festival-	Join for Development Foundation	9
Blood Donation Camp	Blood Donor Motivator Appreciation Award	State Government of Telangana	52
Financial Transparency in Social Activities	Utmost Financial Transparency Award	Street Cause Hyderabad	1
For making the school a better place to teach	Appreciation Letter/Private	Private Institute	30
For Repairing of Drainage System	Thanks giving letter	Kamalamma Old Age Home	80
For active leadership in social activities	Emerging President Award	Street Cause Hyderabad	1
For distributing dustbins, gloves	Thanks giving letter	Thara Orphanage	100

and face masks				
Donation of stationary, mats and bathroom cleaners at orphanage	Thanks giving letter	Sanhitha Orphanage		100
For donating rice bags and shoe stands	Thanks giving letter	Thara Orphanage		100
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
NSS	NSS ACADEMY	aids awareness	1	56
Ecodanta	SMEC-Street Cause Unit	Ecodanta – Distribution of Clay Ganeshas	1	50
Aasha	SMEC-Street Cause Unit	Aasha – Interactive session with primary students at ZPHS Habsiguda	3	50
Raksha	SMEC-Street Cause Unit	Raksha – A self defense program at Grace Children Home, Sainikpuri	2	40
Prerana	SMEC-Street Cause Unit	Prerana – to create awareness on various diseases due to stagnated water at slums near Secunderabad rails	2	100
VANAYAN PHASE-1	SMEC-Street Cause Unit	VANAYAN PHASE-1 – Environment awareness program at Rainbow Home, Musheerabad	3	75
Sanitary Drive	SMEC-Street Cause Unit	Sanitary Drive – Awareness on menstrual Hygiene at	1	50

		Govt. School		
NSS	NSS ACADEMY	swatchbharath	3	52
Swatch Bharath	Gram Panchayat	Swatch Bharath Scheme	3	61
Plantation Program	SMEC-Street Cause Unit	Plantation Program in Kompally Municipality	3	60
		[View File](#)		

3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Workshop on STAAD PRO V8 Software	103	St. Martins Engineering College	2
Webinar	17	University of East London, London	1
Workshop on Entrepreneurship	17	University of Buckingham, United Kingdom	3
BOS	3	St.Martins Engineering College	1
Internship	3	St.Martins Engineering College	30
Innovations Experimentation in Learning Effectiveness	11	St.Martins Engineering College	6
Student exchange	2	George Mason University Virginia,USA	7
Faculty exchange	2	St.Martins Engineering College	3
		[View File](#)	

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Project work	BHEL	06/10/2019	22/06/2020	A.KAVYA
Internship	Project Work	St. Martins Engineering College	07/10/2019	31/03/2020	Datta Karthik

Internship	Project Work	COCA-COLA, Hindustan Coca-cola Beverages Pvt ltd	06/10/2019	22/06/2020	B. SANKET PRABHAKAR
Internship	Project Work	Gorav Engineers Private limited	06/10/2019	22/06/2020	K. AMRITH
Internship	Project Work	St. Martins Engineering College	08/10/2019	29/02/2020	Vaishnavi
Internship	Project Work	Devspark IT solutions	12/06/2019	08/07/2019	Aarugonda Vamshi Krishna
Internship	Project Work	RK Info Systems	18/05/2019	19/06/2019	Chikoti Deeksha Reddy
Internship	Project Work	Lasya InfoTech	20/05/2019	24/06/2019	Devasoth Sandhya Rani
Internship	Project Work	NSIC, KUSHAIGUDA	07/06/2019	06/07/2019	D.SWAPNIL
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
CANTER CADD INDIA PVT. LTD	20/09/2019	Two Days Workshop on STAAD PRO V8 Software	103
Suregrow Farms PVT Ltd,Hyderabad	11/07/2019	Project guidance	59
FUTURE STEP	29/01/2019	Students Projects, Funded projects, Internship, Long term deveopment program, Priliminary and feasibility study	5
Lasya Infotech	12/12/2019	Students Projects, Funded projects, Internship, Long term deveopment program, Priliminary and feasibility study	120
Siri 1	16/12/2019	Students	120

Technologies India Pvt. Ltd		Projects, Funded projects, Internship, Long term deveopment program, Priliminary and feasibility study	
University of Buckingham United kingdum	09/08/2019	Faculty Exchnge Programme	14

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
110	149

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with LCD facilities	Newly Added
Seminar Halls	Newly Added
Seminar halls with ICT facilities	Newly Added
Laboratories	Newly Added
Class rooms	Newly Added
Campus Area	Existing

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SMEC ILMS Version-6.1	Fully	6.1	2018

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	4043	1237162	2125	1316834	6168	2553996
Journals	140	263874	150	270320	290	534194
e-Journals	8555	1352604	6000	1333356	14555	2685960
e-Books	2341	Nill	2143	34623	4484	34623
CD & Video	Nill	Nill	132	32156	132	32156
Weeding (hard &	Nill	Nill	93	26231	93	26231

soft)	
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Srinivasulu	Power Systems	SWAYAM	13/11/2019
Ch.Ranga Rao	Entreprenership development	SWAYAM	12/11/2019
Dr.D V Sreekanth	3d Printing Technology	SWAYAM	13/11/2019
Ch.Ranga Rao	Academic research paper Writing	SWAYAM	13/08/2019
Dr. N. Rama Chandra	Digital sensors	SWAYAM	13/11/2019
Manikanta	EDC	SWAYAM	12/11/2019
D.Krishna	iPAD Technology	SWAYAM	10/10/2019
R .V.Sudhakar	Global system with moble communications	SWAYAM	13/11/2019
A.Mruthuyunjayan	Programming in C	SWAYAM	10/10/2019
Venkanna Mood	Artificial photo synthesis	SWAYAM	13/11/2019
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	1280	1036	0	0	100	44	0	400	0
Added	142	38	0	0	100	0	104	400	0
Total	1422	1074	0	0	200	44	104	800	0

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

400 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Smart class with Camera , Tripod Net	https://youtu.be/u51gExNSpqw
Smart class with Camera , Tripod Net	https://youtu.be/4CXhEnj0KeM
Smart class with Camera , Tripod Net	https://youtu.be/M-9CgCXhnSY
Smart class with Camera , Tripod Net	https://youtu.be/ysj4rZHQPEY

Smart class with Camera , Tripod Net	https://youtu.be/aGVY8g8spe4
Smart class with Camera , Tripod Net	https://www.youtube.com/watch?v=-qQQnsxbOlA&t=2s
Smart class with Camera , Tripod Net	https://youtu.be/YHGE25HDDLg
Smart class with Camera , Tripod Net	https://www.youtube.com/watch?v=8fymaZnnGFo&feature=youtu.be
Smart class with Camera , Tripod Net	https://youtu.be/ZZkMbv_EUxs
Smart class with Camera , Tripod Net	https://youtu.be/6HdNL8G7AaQ
Smart class with Camera , Tripod Net	https://youtu.be/iEqOcgymIys
Smart class with Camera , Tripod Net	https://youtu.be/_uf6dX5tEMs
Smart class with Camera , Tripod Net	https://youtu.be/sdyRHBlToG0
Smart class with Camera , Tripod Net	https://youtu.be/AubhJY0qbbw
Smart class with Camera , Tripod Net	https://youtu.be/-UiwB2BEpsI
Smart class with Camera , Tripod Net	https://youtu.be/nKVvkkYg3Ls
Smart class with Camera , Tripod Net	https://youtu.be/8H6EwsPykl8
Smart class with Camera , Tripod Net	https://youtu.be/HEI27NvLgL0
Smart class with Camera , Tripod Net	https://youtu.be/vbM32akhoxQ
Smart class with Camera , Tripod Net	https://youtu.be/9snPUie0cuk
Smart class with Camera , Tripod Net	https://youtu.be/T6RdN89Ydj4
Smart class with Camera , Tripod Net	https://youtu.be/7sd48fbklmw
Smart class with Camera , Tripod Net	https://youtu.be/J0R2jiSolLg
Smart class with Camera , Tripod Net	https://youtu.be/-aH2SDv8rJE
Smart class with Camera , Tripod Net	https://youtu.be/u51qExNSpqw
Smart class with Camera , Tripod Net	https://youtu.be/4CXhEnj0KeM
Smart class with Camera , Tripod Net	https://youtu.be/M-9CqCXhnSY
Smart class with Camera , Tripod Net	https://youtu.be/ysj4rZHQPEY
Smart class with Camera , Tripod Net	https://youtu.be/aGVY8g8spe4
Smart class with Camera , Tripod Net	https://www.youtube.com/watch?v=-qQQnsxbOlA&t=2s
Smart class with Camera , Tripod Net	https://youtu.be/YHGE25HDDLg
Smart class with Camera , Tripod Net	https://www.youtube.com/watch?v=8fymaZnnGFo&feature=youtu.be
Smart class with Camera , Tripod Net	https://youtu.be/ZZkMbv_EUxs

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites

175	257.3	35	46

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

Procedures and Policies for campus management 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 247. 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 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

https://www.smec.ac.in/assets/images/aqar/Campus%20Management.pdf

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Nill	111	390000

Financial Support from Other Sources			
a) National	Telangana E-Pass	2014	46570000
b)International	Nill	Nill	Nill
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Soft Skill Development	10/07/2019	2095	Teachers,SMEC
Language Lab	10/07/2019	572	St. Martins Engineering College
Bridge Courses	11/12/2019	121	St. Martins Engineering College
Remedial Coaching	12/07/2019	242	St. Martins Engineering College
Yoga	21/06/2019	1002	Yogaalayam
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	Career Counselling	155	115	3	112
2019	Campus recruitment training	46	46	1	46
2019	Campus recruitment training	172	168	4	172
2019	Campus recruitment training	201	201	Nill	201
2019	Campus recruitment training	41	41	Nill	41
2019	Campus recruitment training	60	60	Nill	60
2019	Career Counselling	172	168	4	172
2019	Career Counselling	41	41	Nill	41

2019	Career Counselling	46	46	1	46
Nill	Mahendra Pride	50	15	45	30
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
4	4	6

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
INFOSYS	426	27	IJM Infra Structure Limited	15	8
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	MBA	MBA	Osmania University	PhD
2019	2	B.Tech	IT	BV Raju Institute of Technology	M.Tech
2019	1	B.Tech	CSE	BV Raju Institute of Technology	M.Tech
2019	1	B.Tech	CSE	University of Dayton	MS
2019	3	B.Tech	ECE	Cmr Institute Of Technology	M.Tech
2019	2	B.Tech	ECE	Andhra Yuvathi Mandali School Of Business For Women	MBA
2019	5	B.Tech	ME	Holy Mary Institute Of Science And Technology,	M.Tech

| 2019 | 1 | B.Tech | EEE | CVR College of Engineering, Hyderabad | M.Tech |
| 2019 | 5 | B.Tech | CE | Nicmar | Construction Management |

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	6
CAT	4
GRE	11
Any Other	56

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Athletic	National	1
Annual sports day	Local	10
Yoga Day	National	56
Kabaddi	National	9
Cultural and literary	National	43
National Sports Day	National	84
Induction Program	National	25
Vollyball	National	15
Cricket	National	24
Football	National	9

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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	First Prize	National	1	Nill	17K81A0224	K. Lokeswara Ravindra Rao
2019	Second Prize	National	1	Nill	17K81A0223	K. Meghana
2019	Second Prize	National	1	Nill	17K81A0236	R. Mahesh
2019	FIRST	National	1	1		Sowmya J

2019	Best Startup Award	International	Nill	1	17K81A04K4	Mr.Manasseh John Wesley
2019	Setting up own Youtube channel	International	Nill	1	18K81A04K6	D.Paul Samuel
2019	First Prize	National	1	Nill	16K81A05F2	Nalla Rakesh
2019	First prize	National	1	Nill	17K85A1201	Hima Krishna Reddy
2019	Second Prize	National	1	Nill	18K81E0079	Nallavalli Santhosh Kumar

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

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. 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.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

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 16 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.

5.4.2 – No. of registered Alumni:

796

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

301500

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meet,Alumni lecture series

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

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. Practice 1: The Process for Framing new Regulations in Academics: SMEC includes all stake holders in the designing and implementation of new regulations, which is transparent and decentralized. The course expert in the concerned department considers the alumni feedback, syllabus followed by renowned universities, suggestions from other experts in the same area of specialization to frame the syllabus in a particular regulation. Course Coordinator will approve the syllabus after considering suggestions from the subject experts. HOD will conduct a Department Academic Committee (DAC) meeting to approve the syllabus of particular program, after all possible modifications. Board of Studies (BOS) meeting which includes external experts of different specializations from Industry and University approves regulations, course structure and syllabus of a particular program. Then the Academic Affairs Committee (AAC) headed by Dean, Academic Affairs finalizes the new regulations of all programs. Finally new regulations are verified and sanctioned by Academic council of SMEC. The above process is completely decentralized and resembles like bottom up approach. Practice 2: To provide the student with equitable and affordable technical education of the best quality. SMEC attains this goal by implementing the following conventions. • Curriculum Design: The course expert in the concerned department considers the alumni feedback, syllabus followed by renowned universities, suggestions from other experts in the same area of specialization to frame the syllabus in a particular regulation. Course Coordinator will approve the syllabus after considering suggestions from the subject experts. HOD will conduct a Department Academic Committee (DAC) meeting to approve the syllabus of particular program, after all possible modifications. Board of Studies (BOS) meeting which includes external experts of different specializations from Industry and University approves regulations, course structure and syllabus of a particular program. Then the Academic Affairs Committee (AAC) headed by Dean, Academic Affairs finalizes the new regulations of all programs. Finally new regulations are verified and sanctioned by Academic council of GRIET. • AICTE / JNTUH Guidelines: Always SMEC follows the guidelines given by AICTE, JNTUH and includes all courses suggested by AICTE or other regulatory bodies. The courses are selected and designed such that they meet the present day technology, more practical oriented sessions included and the course structure suiting a wide

variety of students like average to best. • Value Added Courses / Certification Courses: Courses like Python, Design Thinking, Data Science, Entrepreneurship programs NI Lab View, etc are also regularly conducted semester wise, so that students can choose any course irrespective of their branch. • Teaching Learning Process: To improve the

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

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	An effective and wellstructured mechanism exists in the institute to incorporate the necessary amendments in the curriculum to suit the dynamically changing industrial and societal needs. The Boards of Studies of different departments and the Institute Academic Counsel are enriched with a flavour of industrialists to deploy the target. All the departments have identified the various Mezzanine Technologies (Technologies of Latest trends) and placed in the curriculum to meet the requirements of industry 4.0. An open elective course is given a place in the course structure to promote the cross domain academic and research projects.
Teaching and Learning	In line with Outcome Based Education (OBE) insisted by AICTE, the institute has strategized the concept of 'Why am I teaching and What I am Teaching (WIT) and Why am I Learning and What I am Learning (WIL)' which is an outcome driven teaching learning methodology'. The second initiative adopted is VNR Lab Protocol which brings real time applications into the experiments. A Story Board is displayed in each academic lab to indicate the need of carrying out the experiments. The POGIL activity is implemented in most of the subjects to involve the students effectively in learning process.
Examination and Evaluation	The Reforms carried out in the Examination Procedures and Processes are: • Continuous evaluation is done through various tests from time to time. • Mini project done by the student is continuously reviewed at 3 stages. • Introduced online mode of tests for assignments as a part of continuous evaluation system. • Student evaluation system is changed from Percentages to Grading system. •

	ICR/OMR technologies are used in the conduct, evaluation and processing of results for avoiding manual coding of answer scripts. • An industry oriented miniproject, seminar, comprehensive vivavoce and project work is given a weightage of 50, 50, 50 and 200 marks respectively.
Library, ICT and Physical Infrastructure / Instrumentation	Library: The Quality Initiatives adopted by the Central Library for the year 201819 are • Displaying the important news clippings on the notice board – The useful news articles from 8 premier newspapers are scanned at early institute working hours on daily basis and placed on notice boards along with circulation among staff members. This initiative is helpful for the students and staff as a ready reference for the important news on engineering education, current technologies, call of research proposals from funding agencies, career/job advertisements from the statutory bodies. • Career/Employment Information/ Services • A WalkThrough Trip • Suggestion box and timely response
Human Resource Management	The institute has excellent strategies/ norms for Human resource Management. It ensures that • Payroll is as per norms • Time and Attendance are monitored on a daily basis • Performance record is maintained • Performance appraisal is conducted • Faculty and Staff recruitment are always based on merit. • Seminars / trainings are conducted to train the newly recruited faculty • Micro-teaching workshops are conducted for the new faculty • Several internal workshops are held to train the faculty and staff to enable them to update their knowledge. • IQAC creates awareness among faculty regarding quality initiation.
Industry Interaction / Collaboration	The institute has • Encouraged consultancy projects with and without financial benefits. • Entered into a Memorandum of Understanding (MoU) with reputed industries • Promoted industry sponsored internships and projects • Guest Lectures by Eminent personalities from Industry
Admission of Students	ST.Martins being a premier engineering institution in Telangana state attracts potential applicants

through several quality initiatives that go beyond quantitative measurements in its admissions process. Basic campus, education and research infrastructure to enable cutting edge research, modern classrooms and laboratories, infrastructure that nurtures innovation and entrepreneurship, linkages with industry and society, good placement of students that meet the aspirations of the students and expectations of employers and good grades enriched with a sound Practical knowledge have been the guiding factors in attracting students. The JEE is considered for admissions on merit basis under Category B.

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

E-governace area	Details
Planning and Development	E governance in various planning and development levels of the Institution is in place through the scheduling , conduct and maintenance of minutes of meetings and resolutions made out of Governing Council , Academic Council, Finance committee meetings for the policy making, approvals etc. Translation of these policies into action plans are thoroughly deliberated upon in IQAC meetings, Institute Academic Committee meetings , Research Advisory Board meetings etc.
Administration	This module provides support for day to day functionality of Institute Administration- Faculty induction, Leave management, service record maintenance, staff welfare measures etc. It has the features for creating holidays, Various Leaves, creating user and assign roles, reference data, service book, Pending Approvals, Employee's Shift, and Employee ID Card etc. It also defines workflow at various decentralised functionaries.
Finance and Accounts	This module provides support to various finance and accounts related functionalities like student tuition fee payment, course registration fee, payment status, part/full payment involved in the purchase process, Ledger maintenance etc. Faculty and staff payrolls are created and the pay scales. Payroll details can be revised according to the scale of pay and dynamically changing DA time to time.

Student Admission and Support	This module makes admission process automated. E-Announcements for admissions are made through this module and E-Applications are invited through web portal for getting admission into various programmes offered by the institution. It generates the report on the seats allotment by convener and its status like sliding of branches etc. Out of the students applied for seats under B Category merit list is prepared and seats are allotted in the order of merit. Roll lists are also generated along with student profile creation.
Examination	This module provides the functionality for student examination registration for end semester and creating seating arrangement for students. It facilitates the Nominal Rolls, Room and Branch(s) wise on a date of examination for both Internal and End Semester Examinations. It provides the functionality for generation of Admit Card and Internal Marks Entry by faculty. Result Processing is being done and 360 0 view of the student is made available in student as well parent portals.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	G.Vikram	Python for passionate programmers	---	3000
2019	Mr. G. Ramesh Reddy	STTP on IoT and its Applications in Industry	--	1500
2019	R. Hanuma Naik	National Conference on Mechanical And Production Engineering(NCMPE)	SAE	3500
2019	R.Suvarna Babu	National Conference on Mechanical And Production Engineering(NCMPE)	IWS	2000
2019	L.Sunil	National Conference on	ASME	2000

Year					
		Construction, Mechanical and Industrial Engineering (NCCMIE)			
2019	Balaji D Tandle	Automation For Smart Industry And Manufacturing	IWS	2000	
2019	M. Bhojendra Naik	Seventh International Conference on Transformations in Engineering Education (ICTIEE' 2020)	SAE	2000	
2019	Mr. B.Ashok Kumar	Seventh International Conference on Transformations in Engineering Education (ICTIEE' 2020)	IWS	3500	
2019	Mr. Ch. Ranga Rao	Automation For Smart Industry And Manufacturing	ASME	2000	
2019	Dr. D V Sreekanth	National Conference on Construction, Mechanical and Industrial Engineering (NCCMIE)	SAE	2000	
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Feasible Study for Allocation of Nodal demands through water GEMS	----	29/08/2019	31/08/2019	132	Nill
2019	Application of IOT In power	---	28/06/2019	30/06/2019	22	2

Year	Title		From Date	To date		Participants	Nill/Revenue
2019	Basics of thermal Fluid sciences	---	27/07/2019	27/07/2019		113	Nill
2019	Seminar on Cloud computing	---	20/09/2019	20/09/2019		520	Nill
2019	Research Methodology: Tools Techniques	---	18/05/2020	22/05/2020		6	Nill
2019	FACULTY DEVELOPMENT PROGRAME ON ENTREEPRISE RESOURCE PLANNING	---	06/11/2019	06/11/2019		39	Nill
2019	Three Days Online Faculty Development Program on Internet of Things (IoT).	---	05/05/2020	07/05/2020		42	Nill
2020	National level Hackathon-2020	---	07/02/2020	08/02/2020		38	Nill
2019	Workshop on "Advanced Programming skill Development" under TEQUIP-III,JNTUH	--	03/09/2019	04/09/2019		14	Nill
2019	Faculty Induction Program.This is an event under TEQUIP-III, JNTUH.	--	07/08/2019	07/08/2019		19	Nill

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional	Number of teachers who attended	From Date	To date	Duration

development programme				
Advances in Python (Django and Flask), Python for Data Science and Cyber Security	2	21/05/2020	27/05/2020	6
Insights into Quality Research and Innovation	6	21/05/2020	27/05/2020	8
Workshop on real time challenges in interpreter	15	27/04/2020	28/04/2020	2
Recent Trends of Power Electronics Control	3	21/05/2020	25/05/2020	5
Challenges and Innovations in Renewable Energy Systems	3	11/05/2020	16/05/2020	6
FDP on Emerging Technologies in civil Engineering and Applications(ETCA)	10	11/05/2020	16/05/2020	6
Thermodynamic analysis of refrigeration system	7	15/06/2019	16/06/2019	2
FDP On Research Challenges And Opportunities	7	04/05/2020	09/05/2020	6
Artificial Intelligence	3	22/05/2020	26/05/2020	5
Analysis And Modelling Of Pandemic Scenarios Using Empirical And Gis Techniques	4	24/04/2020	01/05/2020	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time

| 266 | 266 | 37 | 37 |

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Group Medical Health Insurance, Subsidised Transportation and Free Transportation during beyond working hours, Group Personal Accidental Policy, Creche (employee children), Gymnasium, Yoga with Meditation hall, Purified Mineral water across the campus, Health Centre	Group Medical Health Insurance, Subsidised Transportation and Free Transportation during beyond working hours, Group Personal Accidental Policy, Creche (employee children), Gymnasium, Yoga with Meditation hall, Purified Mineral water across the campus, Health Centre	Group Personal accidental Policy for all the students, Subsidised Transportation and Free Transportation during beyond working hours, Gymnasium, Yoga with Meditation hall, Purified Mineral water across the campus, Health Centre, Canteen Service with subsidised Rates, Aid for the Students Participating in overseas conference, Arrangement of bicycles to move in the Campus

6.4 – Financial Management and Resource Mobilization

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

Financial planning ensures consistency of goals, aligning the growth objectives of the institute with its financial requirements. It also supports the strategic growth of the organization. To Begin with the End in Mind, the institute plans and accumulates the right amount of funds by gathering the inputs and requirements from its associated departments. Financial Planning is exercised well in advance for the organization and efficient Budgeting Controlled mechanism is done by involving the various Academic Departments and Administrative Sections of the Institute. Financial planning and review is done in periodic intervals through statutory Finance Committee headed by Principal, Dean Administration, Management representative, Faculty and Account Personnel as members. Finance Committee meets 4 times a year and reviews the income expenditure statements and suggest further action plan. Management through Governing Council looks in to income and expenditure pattern and pragmatic recommendations are given. Wellstructured financial section is in place and every financial transaction is recorded through software. Financial Rules are in place in the Institute and "No Cash" Transaction System is followed. Fee Payment is encouraged through online mode. Flexible financial system allows spending more than the budget allocated as per the approved budget on the benefit of demands and requirement. Optimal utilization and execution of the budget is monitored through internal and external auditing. Internal audit is conducted on quarterly basis and the statutory external audit is conducted annually by charted accountants. All government Scholarships and Funds received from government as Grants are audited separately by the Auditor. Audited financial statements are made public by placing it on institute website and are sent to the statutory and regulatory bodies. An effective financial management system is in place and is helping the institution in overall growth.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Future Step	806000	Reduce, Reuse, Recycle:

	Increase strength of soil using Quarry Dust, Fly Ash, Granular blast Furnace Slag for Geotechnical and Environmental Applications

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6.4.3 – Total corpus fund generated

35000

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	NBA	Yes	IQAC (Academic and Administrative Audit Cell)
Administrative	Yes	NBA	Yes	IQAC (Academic and Administrative Audit Cell)

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

1.Parents are regularly invited to ParentTeacher meetings to discuss the need / problem / progress of their wards. 2.Relationship Management Centre with an exclusive psychology counsellor is created chiefly to strengthen the parent teacher relationship. 3.Student mentor details are provided to the parents to pursue their ward's performance. 4.Healthy academic and institutional growth. 5.The feedback of parents is used to improve the teaching-Learning Process. 6.Parents support to promote social responsibility among srudents.

6.5.3 – Development programmes for support staff (at least three)

1.Training / workshops/seminars are conducted. Academic / study leaves are granted to encourage higher education. 2.Financial support is provided to the staff for acquiring higher qualification. 3.Soft skill Traning program 4.Regular staff meetings to motivate them so as to have a better working environment. 5.Yoga session meditation for thire better physical and metal health.

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

1.3 week Induction program for Ist B.Tech students is introduced. Introduction of Design sensitization course as part of Academic curriculum. 2. Automation of WITWIL documents. Establishment of Global Relationships Office (GRO). Automation in Admission Process. 3.The Learning outcomes of students attainment in Outcome Based Education (OBE) though Automation. 4.Up-gradation of faculty knowledge to suit industry 4 needs by incorporating emerging technologies like AI,ML, Data Sciences, Internet of Things etc...

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes

b)Participation in NIRF		Yes	
c)ISO certification		Yes	
d)NBA or any other quality audit		Yes	

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2020	Plant for the planet project (PPP)	28/06/2020	28/06/2020	29/06/2020	200
2020	Conduct of Green Audit in the institute	23/06/2020	23/06/2020	24/06/2020	20
2020	Conduct of Energy Audit in the institute	20/05/2020	20/05/2020	21/05/2020	10
2020	National Technology Day	11/05/2020	11/05/2020	11/05/2020	200
2020	World IP Day	26/04/2020	26/04/2020	26/04/2020	250
2020	Preparing Research proposals	24/02/2020	24/02/2020	24/02/2020	56
2020	Two day Workshop on Active learning Pedagogies Technologies	18/01/2020	18/01/2020	19/01/2020	300
2019	Motivational lecture on GATE	12/12/2019	12/12/2019	12/12/2019	750
2019	Seminar on Research Methodology, Research and funding proposals	10/10/2019	10/10/2019	11/10/2019	210
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants

				Female	Male
Women in Society	19/06/2020	19/06/2020		9	108
Seminar on International Women Day	09/03/2020	09/03/2020		26	34
Sports Events for Women	10/03/2020	12/03/2020		10	22
Seminar on Gender Equality	08/03/2020	08/03/2020		9	22
Throwball Competition for Girls	06/03/2020	08/03/2020		8	20
Women in Cyber Security and Privacy in 2020	06/07/2020	10/07/2020		240	630

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

Percentage of power requirement of the University met by the renewable energy sources
1440 KWH Energy Gain through Solar Power Plant

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	5
Provision for lift	Yes	5
Ramp/Rails	Yes	5
Braille Software/facilities	Yes	Nill
Rest Rooms	Yes	5
Scribes for examination	Yes	Nill
Special skill development for differently abled students	Yes	Nill

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	20/05/2019	30	Internship	Project	671

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Human Values and Professional Ethics	05/06/2020	SMEC takes pride in the fact that apart from preparing a sound academic foundation of the student community the college constantly works upon to develop them as better citizens of the country. In this regard, the institute, apart from imparting professional legal education, inculcates a feeling of oneness among the student community through various practices and programs. Various faculties have always been in the practice of organizing activities that not only initiate but also motivate the students to adopt various practices that promote the "Unity in Diversity" of our motherland. The College ensures that the students participate very enthusiastically in all such activities. Since the last five years, the college has strived forward with great effort to increase the level of awareness and appropriate practices amongst the students with regard to the following areas: 1. National Identities and Symbols: The College has always taken various direct and indirect 116 steps which promote the awareness about various National Identities and Symbols. The Indian Tri-colour stands tall at the main entrance of the College and in this way the College spreads the message of nation first policy. The College celebrates the Independence Day Republic Day with great pomp and vigour. Department of MBA

		organizes and celebrates the Constitution Day on an annual basis and thus contributes to the spreading of Constitutional values and ideals. 2. Fundamental Duties and Rights of Indian Citizens: The Faculty of various departments, have organized various academic and co-curricular activities for the propagation of the Fundamental Duties and Rights of the Indian citizens. The students of have enthusiastically participated in various programs like: a. Academic programs like Seminar, Conferences, Expert talks, etc which have enriched the awareness about these aspects. b. Various activities like poster making competition, etc. c. Organizing Annual Competitions on various contemporary legal issues. d. Organizing various forms of legal aid and legal awareness camps to impart awareness of such issues. 3. Constitutional Obligations: SMEC has organized student centric activities like paper, poster essay competition displays at annual Synergy event etc which have always received huge participation from the students and promoted their awareness about various aspects of Indian citizenship.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Independence Day	15/08/2019	15/08/2019	163
Teacher's Day Celebrations	05/09/2019	05/09/2019	217

| World Science Day | 10/11/2019 | 10/11/2019 | 209 |

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

Students, staff using a) Bicycles b) Public Transport c) Pedestrian friendly roads • Plastic-free campus • Paperless office • Green landscaping with trees and plants Response: St. Martin's Engineering College Management is highly interested in maintaining the campus as eco-friendly and energy conservative. The Campus has about 256 trees and 320 small plants in 17 acres and a well maintained lawn. Many steps are taken for continuous sapling of trees, during Haritha HaramProgram (http://smec.ac.in//Galleries/HarithaHaram). We take immence care in various factors such as Water, Air Noise, Land, Parking, Flora Fauna, Socio Economic, Nursery, Solar System in making ecofriendly campus. Actions Taken for Making Campus Eco-friendly: Bicycles: To keep the campus pollution free staff and students are encouraged to use bicycle Chairman, St. Martin's Engineering College, Mr. M. Laxman Reddy uses bicycle which is an inspiration to staff and students.198 students and 43 staff who stay near by the college are using the cycle. Public Transport: Students use the public transport to avoid the traffic delays, accidents and to reach on time. TSRTC provide the bus service towards the college bus route 227, 227B, 219/229, 26N/229 with manyintermediate alight points. Students use this facility provided by the TSRTC. Besides the public transport St. Martin's Engineering College has 20 buses to transport (http://smec.ac.in//Transport)for the students and staff from all corners of the city. 950 students and 231 Staff use the college transport facility every year. Pedestrian Friendly Roads: St. Martin's Engineering College laid with roads within the campus of 26 feet width which connect the blocks in the campus where 10 feet roads near the department and separate markings are made for walking of pedestrians. Entry of vehicles is restricted into the campus, for this clear instructions are given that vehicle is not allowed from the starting of the Bari gate. Plastic-Free Campus: St. Martin's Engineering College took an initiation to avoid the usage of plastic bags in the campus in this process college has banned plastic bags at college canteen and college premises. The canteen started using the steel plates and steel spoons for serving and also started selling reusable bags to students to reduce waste, as an initiation College conducted Say-No-To-Plastic' in which 110 students actively participated. Paperless Office: To reduce the use of paper St. Martin's Engineering College started a practice of digitalizing the data of the students, In house developed ERP software for planning development for administration and academic activities, finance accounts, student administration their support and for examination and also encourages students to make all types of fee payments through online. It makes a great reduction of paper.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

BEST PRACTICES BEST PRACTICE I 1.Title of the Practice An Integration of Innovations, Enlightening Technical Skills to Manifest into Career Building: AHub of Technology for Prosperity. 1.Objectives of the Practice ? To enlighten skills and bring awareness about latest technologies, industry requirements and overallpersonality development. ? To help in Career Visioning and Nourish the Designing and Innovative skills, paving way towardscareer in core companies. ? To gain a competitive advantage by developing technical skill sets that is in demand. ? To meet the demand for Business entrepreneurs, Innovators, Creative thinkers to Society where ? data is central to Research, Teaching and Business. ? To influence contacts with industry and improve interdisciplinary training of technical skillscollaborate with training companies for domain-specific

employability. 1.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 patternsand 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. 1.The Practice: 1.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. 1.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 independentdomain. 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. 1.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. 1.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. 1.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. 1.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. 1.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. 1.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. 1.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. 1.Problems Encountered and Resources Required ? Motivating and encouraging students to concentrate on innovation and entrepreneurial activities. ? Providing repositories comprising teaching-training materials, data resources, lab activities, ? analysis and demonstration.? Providing assistance to start-up student entrepreneurs by inviting Government officials, alumni entrepreneurs and other related field experts. ? Sponsoring basic start-up costs such as RD and Certifications. BEST PRACTICE II 1.Title of the practice Ingrain Discipline, Human Interaction and Universal Values among the students through Community Orientation Activities 1.Objectives of the Practices ? To model a new student orientation program that builds foundation for development of communitylearning ? To create an atmosphere that minimizes anxiety, promotes positive attitudes, and stimulatescuriosity for learning ? To emphasize importance of being involved in community orientation programs and taking responsibility for growth and humanity development 1.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. 1.The Practices 1.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: ? Reduces stress? Improves emotional well-being ? Benefits physical health ? Provides a sense of belongingness and reduces isolation ? Lower risk of cancer and heart diseases 1.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: ? To help underprivileged, such as orphans, elderly, unemployed and differently abled, to live theirlives in the best way possible. ? To rehabilitate street children into mainstream society. ? 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: ? Conduct activities to bring balance in lives of girl students. ? Create awareness about women's rights ? Educate girl students in building self confidence and self esteem

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://www.smec.ac.in/assets/images/aqar/Best%20Practices.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Institutional Distinctiveness EFFECTIVE PLACEMENTS FOR CAREER BUILDING OBJECTIVES ? 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. ? It also acts as the Interface among various companies seeking talented young graduates fromvarious disciplines. ? To place students in Prospective IT Core companies. ? To help the students developing a passion to win with a global mindset. ? To assist students developing their academic and career interests, and their short as well as long-term goals through individual counselling and group sessions. ? 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: ? Personality Development ? Communication Skills Vocabulary ? Resume Preparation Email Writing ? Group Discussion ? Interview Skills ? Aptitude Training Practice Tests EVIDENCE OF SUCCESS The Industry is always on the lookout for students who are vibrant, energetic individuals and ready to accept challenges, attentive with a good academic background, fast learners, open to learning even at work and more importantly with good communication skills, which help them to get a good job in MNCs and settle well in India and abroad. They are performing good jobs in many various companies such as Infosys, Tech mahindra,

Provide the weblink of the institution
https://www.smec.ac.in/assets/images/aqar/Institution%20Distinctiveness.pdf

8.Future Plans of Actions for 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: CSE in AI and Machine Learning, CSE in Data Science, CSE in IoT, CSE in Cyber Security 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 get NBA Accredited for CSE and MBA: The institute is UGC Autonomous with NAAC A plus and NBA accreditation except CSE and MBA. Based on the accomplishments and achievements of the CSE and MBA department we have applied for NBA Accreditation and waiting for the Peer team visit. 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.