SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

SSM COLLEGE OF ENGINEERING

DIVER, PARIHASPORA, TEHSIL PATTAN, DISTRICT BARAMULLA
193121
www.ssmengg.edu.in

SSR SUBMITTED DATE: 27-02-2020

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

February 2020

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

SSM College of Engineering is situated at Parihaspora (Diver) in the picturesque Karewa, 20 kms away from Srinagar city, which has been once the magnificent capital of a great ancient ruler "King Lalitaditya" of 12th century and falls in Tehsil Pattan of District Baramulla. The place has been once a centre of knowledge and preaching Buddhist as well as Hindu Theology. The location of the campus is very calm, congenial to the ambience and is beautifully landscaped in an area of 10.5 acre. The Institution is approved by AICTE, New Delhi and is affiliated to the University of Kashmir, Hazratbal Srinagar. The college offers six under-graduate and four post-graduate programmes.

Six undergraduate programmes are:

1. B.E. Civil Engineering,
2. B.E. Computer Engineering,
3. B.E. Electronics & Communication Engineering,
4. B.E. Electrical Engineering,
5. B.E. Mechanical Engineering and
6. Bachelors of Business Administration (BBA)

Four post-graduate programmes are:

1. M.Tech in Electronics & Communication Engineering,
2. M. Tech in Mechanical Engineering,
3. Masters in Business Administration (MBA) and
4. Masters in Computer Application (MCA)

Courses approved and in the process of making admissions:-

1. M.Sc Electronics
2. M.Sc Physics
3. B.Voc -Software Development
4. B.Voc - Electronic Manufacturing
5. B.Voc - Automotive Manufacturing Technology
6. B.Voc - BFSI

Vision

Fostering creativity and growth of excellence for techno-economic upliftment of society.

Mission

- Producing highly motivated quality engineers, technocrats and managers with sound knowledge and

profound skill through efficient, effective teaching learning process.

- Enhancing efficiency and productivity of the students to face the global challenges by imparting education & training conforming to international standards.
- To inculcate value based professional ethics in students for their all round development and welfare of the society.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- College is a premier technical Institute of valley in private sector and has been contributing to the society for over more three decades. It has earned reputation among the public for its professional management, excellent infrastructure, well qualified and experienced faculty.
- Campus is located in calm, congenial, beautifully landscaped rural area spread over 10.5 acres.
- Eminent educationists, administrators, technocrats, qualified professionals, reputed industrialists and entrepreneurs being on the Governing Board make the institutional working prudent and dynamic.
- Admissions   are made through transparent CET process by Government through J&K BOPEE/University of Kashmir
- Fee structure is fixed by Government /affiliating University
- Engineering courses run by institute are in great demand and most of the seats get filled.
- ISO certified institute.
- Institute is affiliated to the University of Kashmir an A+ NAAC accridted and oldest University of J&K.
- College is associated with the Academic Council and Board of Studies of the University of Kashmir for curriculum development.
- 5% of the total approved intake admitted under Tuition Fee Waiver Scheme.
- Institute is involved in a big way for general awareness and national integration through programmes like Dr. Subash Chander show,
- Adequate internet connectivity
- Well-equipped laboratories, digitalized library and high-tech classrooms for effective learning.
- Comfortable hostel facility.
- Excellent pass percentage.
- MOUs with industries and Institutes of national repute, like NIT Srinagar, ALTTC (BSNL) Ghaziabad etc
- All-round development through Sports, Music, Arts and Cultural programmes etc.
- Corporate Social Responsibility (CSR) by way of arranging blood donation camps, plantation drives, health awareness camps, providing technical support services, free literacy programmes etc.

Institutional Weakness

- Non existence of large scale industries together with limited existence of small and medium industries in the Valley, the students get limited exposure to practical world of work.
- Limited consultancy and research activities.
- The Institution being situated in isolated rural area lacks availability of public transport.

Institutional Opportunity

- Tapping the knowledge resources of Alumni who are pursuing successful careers in industry or as Entrepreneurs.
- The college has adequate infrastructure to integrate technology into education for twenty-first-century digital learners.
- Proposed special package of Government of India for J&K in the field of technical education will widen the scope of opportunities.
- Thrust on skill development mission at national level.
- Introduction of Value added courses.
- Faculty and student exchange programmes.
- Executing more MOUs with industries and relevant institutions of repute.
- Institution is located in vicinity of world famous tourism destination Gulmarg and has guest house at the said place which in an attraction to the visiting faculty.

Institutional Challenge

- Prevailing uncertain conditions for the last 30 years.
- Increasing number of technical institutions in the region.
- Severe winters cause hardship in conducting academic activities during winter months.
- Institution being self financed is facing difficulty in retaining highly qualified teaching faculty.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

On being selected and admitted for the course:-

- Students are oriented towards vision mission and goal through Prospectus and Website.
- Induction program orienting freshers about course, institution and surroundings.
- Students are provided with soft and hard copies of curriculum prescribed by affiliating University.
- Planning of academic and co-curricular activities is done well before commencement of session, accordingly an academic calendar is prepared.
- Based on weekly hours alloted for the topics/subject in the curriculum, time table for each course is prepared.
- The faculty members contribute in designing and developing curriculum at various levels such as Board of Studies for syllabus revision.
- Enrichment Programs through Industrial Visits, Life Skills, Soft Skills, Open elective subjects, Extension lectures, seminars, group discussions etc
- All courses are CBCS/ Elective course system
- Various subject related Certificate Courses have been introduced to enrich the knowledge base of the students.
- Cross-Cutting issues of relevance like gender, environment and sustainability, human values and professional ethics are integrated into curriculum through various programs/ events
- Students undertake field projects/ internship.
- To bridge gap between the curriculum and industry various Value Added courses are conducted.

Teaching-learning and Evaluation

- Students through induction program are apprised about institutional facilities, academic calendar, rules / regulations /examination pattern etc. Performance of slow learners is improvised through remedial classes, mentoring, tutorials, solution of previous question papers etc. Advanced learners are involved in Committees , seminars, group discussions, micro projects, competitive examinations, innovative challenge, simulation/working models, etc.
- Teaching learning process catered through ICT based, project-based learning, guest, expert, extension lectures, exposure to real world environment, e-resources, well equipped labs, book bank, visits to research institutes/industries, innovative teaching, video lectures / webinar, soft skill etc.
- Evaluation of assignments, internal tests and external examination, attendance monitoring etc is as per the University guidelines. Based on the outcome of results needy students are counseled through mentor-mentee system. Any grievance related to external examination is communicated to the affiliating university for redressal. The evaluated answer scripts of internal examinations are shown to the students with the corrections carried out. The student's attendances are sent to the Course Revive Committee.
- Academic calendar is published well in advance. The coordinator circulates the course option identifying faculty competency with the departmental assessment committee allocating courses accordingly. Lesson Plan Follow-Up format is reviewed by HOD, Dean Academics and Director IQAC
- Program Outcomes (PO), Program Specific Outcomes (PSO) and Course Outcomes (CO) for all programs are displayed for teachers and students on College website, HOD cabins, Departmental Notice Boards, Department laboratories. Survey feedbacks are consolidated and the Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) are calculated.

Research, Innovations and Extension

- One of the activities for which the institute feels proud of, is the contribution towards the social upliftment of the neighboring villages. The institution has been a source of rescue during natural calamities and other hard times. It has been a place of shelter and respite during 2014 floods for the villages of Divar, Yakhmanpora, Odina and other villages. The institute besides providing shelter provided food, clothing and medical aid to the population hit by floods.
- Institute has established centre for incubation, innovation & Entrepreneurship where in the students and pass outs are mentored to give a final shape to their innovative ideas. The faculty members form the college mentor the students by providing hand holding to materialise the ideas from conceptual stage to know-how stage and finally to do- how stage.
- The institute has conducted a number of programmes in the shape of seminars, workshops on Academia innovative practices & intellectual property rights (IPR) which made the faculty and students abreast about the various aspects of Academia innovative practices & intellectual property rights. The institute has Code of Ethics for Examination Malpractices & Plagiarism in Research .The faculty and students are made aware about the same through awareness programme. Our faculty have to their credit numerous papers published by journals of repute. They have brought laurels, prizes and certificate of recognition for various activities. The institute has entered into MOU with various Academic institutes and industries of repute. Industrial training, visits and internship is a regular feature of the institute.

Infrastructure and Learning Resources

Adequate facilities for teaching-learning are available as given below: -

- 103 lecture/Tutorial rooms/Drawing Halls, 49 laboratories, seminar hall, workshops, open air auditorium, Auditorium, 11 KV dedicated power supply with backup of diesel generators, first aid facility, College canteens, Reprographic centre, Stationery Stall exclusive Training and Placement (T & P) Cell.
- Ample space for indoor sports activities and administrative functioning.
- Playgrounds for Cricket, Football, Courts for Badminton, Basketball, Volleyball, Snooker etc.
- Ramps are provided for physically disabled students.
- Library having a collection of about 52000 books, 300 printed journals with SOUL software.
- NPTEL study material is available to students and faculty through portal.
- Institute has a very strong IT infrastructure in terms of hardware, software and firewall system which are updated regularly as per need. The institute has massive network of 583 computers with 100 Mbps internet connectivity to fulfill the academic and research needs. The institute has implemented enterprise resource planning to make the system student centric and enhance learning.
- For maintenance and upkeep of campus facilities, the institute has framed various committees. The institute has its own agency for housekeeping and security of campus. Emergency exits and fire fighting system are provided to counter situations like fire hazard and natural calamities.

Student Support and Progression

Institute has effective and efficient support system for overall development of students. It ensures development of students in academics and extra-curricular activities.

- Institute has Mentoring system in place. Faculty mentor looks after student mentees for their overall development, academics, progression and personal counseling.
- A number of capability enhancement and development programmes are carried by the institution which includes remedial classes, career counseling, personal counseling, soft-skill development, guidance for competitive examination, yoga and meditation.
- Institute has effective system of disseminating information regarding various schemes of scholarships and free ships to students, they are extended assistance to avail such facilities.
- Institute has various committees such as Student Grievance Cell, Anti Ragging Cell to address student grievances through transparent and timely redressal.
- Training and Placement Cell organizes various programme aimed at entrepreneurship, student progression to higher education and Placement.
- Student council is formed each year which comprises of student representative from each department. These councils plan and organize activities and contribute in academic and administrative matters.
- The Institute organizes various extra-curricular events related to cultural and sports which eventually help the students to showcase their talent. Our students have participated at University and national level.
- Institution has a strong Alumni Association, the Alumni meet annually to share their views and give suggestions, deliver guest lectures and hold seminars. They also help their juniors in terms of projects, internships and placements.

Governance, Leadership and Management

Governance strives to translate its vision and mission statements into reality in the following ways:

- Governing Body meets once a year to discuss the administrative, academic functioning and suggest strategies.
- Principal takes periodic meetings with Vice Principal, Dean Academics and HODs on various academic and administrative affairs. He delegates authority to them to execute decisions taken in such meetings.
- HODs take decision regarding various activities of department in consultation with coordinators/faculty and accordingly delegates responsibilities to them which form an example of participative management.
- Utilization of teaching aids like LCD projectors etc for teaching learning process.
- Mapper software for perusal of student progress as well as staff details helps in monitoring process.
- Various committees headed by senior faculty help in the decentralization of work and ensure collective responsibility among faculty.
- Staff members are given enough freedom to express their views and innovative ideas
- HODs participate in formulation of annual plan and budget preparations.
- Whenever required Principal, Deans, and HODs are given imprest/temporary advance amount.
- Recruitment is done in a transparent manner by advertising posts/positions through print and electronic media.
- Grievance Redressal Committee looks into the grievances of staff and ensures speedy enquiry and redressal.
- Teachers are provided with financial support to attend conferences/workshops
- Provident fund, Insurance benefits, awards, relief and incentives are given to employees.
- Performance appraisal system is in place
- Financial audits are conducted periodically and appropriate strategies are developed accordingly.
- IQAC ensures the progress of students' performance in academics through quality assurance measures.

Institutional Values and Best Practices

The Institution continuously strives to uphold Institutional Values and adopts most suitable practices in consonance with its vision and mission.

- Gender equity promotion programmes are held regularly besides catering to specific needs of girls students. Girls Common Room equipped with necessary amenities, secure campus for girls students. Security for girl students is ensured. The campus is free from all sorts of ragging.
- Steps taken towards environmental consciousness and sustainability include:

1. Rain water harvesting system for ground water replenishment and usage for lawns etc
2. Green practices like plastic free campus, paperless commutations and use of projectors in teaching.
3. Solar power system with DG set backup
4. Lighting power mostly through LED bulbs
5. Solid and liquid waste management in the shape of incinerator and controlled supply.

- Facilities for differently-abled students in the shape of ramps, rails, rest rooms and scribes for examination in place.
- Engagement of local persons for different jobs.
- Human values and professional ethics well documented in the shape of handbook of code of conduct for students and staff.
- Complete transparency maintained in financial, academic, administrative and other auxiliary functions.

- First aid medical facility available, referral facility at nearby NOORA hospital
- Activities for promotion of human values, universal values and communal harmony besides various awareness programmes carried out.
- Best practices adopted by the Institution include:

1. Compensatory classes for slow learners and shortage cases with genuine reason.
2. Community service through facilitation centre.
3. Well structured Industry Institute Interaction Cell (IIIC) in place.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SSM COLLEGE OF ENGINEERING
Address	Diver, Parihaspora, Tehsil Pattan, District Baramulla
City	Pattan Baramulla
State	Jammu And Kashmir
Pin	193121
Website	www.ssmengg.edu.in

Contacts for Communication					
Designation	**Name**	**Telephone with STD Code**	**Mobile**	**Fax**	**Email**
Principal	Sajad Hussain Din	0194-2496135	9697994705	0194-2496260	ssmkashmir@gmail.com
IQAC / CIQA coordinator	Yasmeen	0194-2496955	7006822898	0194-2496136	yasmantasha@yahoo.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	
Date of establishment of the college	20-01-1997

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

State	University name	Document
Jammu And Kashmir	University of Kashmir	[View Document](#)

Details of UGC recognition

Under Section	Date	View Document
2f of UGC		
12B of UGC		

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

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	[View Document](#)	10-04-2019	12	EOA

Details of autonomy

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

Recognitions

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

Location and Area of Campus				
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**
Main campus area	Diver, Parihaspora, Tehsil Pattan, District Baramulla	Rural	10.5	19513

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering	48	Higher Secondary	English	180	178
UG	BE,Computer Engineering	48	Higher Secondary	English	120	110
UG	BE,Electronics And Communication Engineering	48	Higher Secondary	English	120	112
UG	BE,Electrical Engineering	48	Higher Secondary	English	60	58
UG	BE,Mechanical Engineering	48	Higher Secondary	English	120	103
UG	BBA,Business School	36	Higher Secondary	English	90	85
PG	Mtech,Electronics And Communication Engineering	24	Bachelors	English	18	17
PG	Mtech,Mechanical Engineering	24	Bachelors	English	18	18
PG	MCA,Computer Application	36	Bachelors	English	50	12
PG	MBA,Business School	24	Bachelors	English	60	60

Position Details of Faculty & Staff in the College

Teaching Faculty											
	Professor				**Associate Professor**				**Assistant Professor**			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0				0				0
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit				0				0				0
Sanctioned by the Management/Society or Other Authorized Bodies				12				40				102
Recruited	12	0	0	12	27	13	0	40	51	51	0	102
Yet to Recruit				0				0				0

Non-Teaching Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				76
Recruited	38	38	0	76
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				107
Recruited	80	27	0	107
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	12	0	0	0	0	0	0	0	0	12
M.Phil.	0	0	0	2	0	0	0	1	0	3
PG	0	0	0	23	13	0	35	36	0	107

Temporary Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	16	16	0	32

Part Time Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	**Male**	**Female**	**Others**	**Total**
	15	0	0	15

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	1917	0	0	0	1917
	Female	858	0	0	0	858
	Others	0	0	0	0	0
PG	Male	144	0	0	0	144
	Female	102	0	0	0	102
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years						
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
General	Male	462	488	487	517
	Female	209	236	234	227
	Others	0	0	0	0
Others	Male	27	32	28	32
	Female	3	5	9	8
	Others	0	0	0	0
Total		701	761	758	784

3. Extended Profile

3.1 Program

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

Response: 1425

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

2018-19	2017-18	2016-17	2015-16	2014-15
10	8	8	8	8

3.2 Students

Number of students year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
3021	2982	2941	2807	2675

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2018-19	2017-18	2016-17	2015-16	2014-15
46	46	46	46	46

File Description	Document
Institutional data in prescribed format	View Document

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

2018-19	2017-18	2016-17	2015-16	2014-15
825	789	676	608	506

File Description	Document
Institutional Data in Prescribed Format	View Document

3.3 Teachers

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

2018-19	2017-18	2016-17	2015-16	2014-15
154	155	145	138	115

File Description	Document
Institutional Data in Prescribed Format	View Document

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

2018-19	2017-18	2016-17	2015-16	2014-15
154	155	145	138	115

3.4 Institution

Total number of classrooms and seminar halls

Response: 104

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

2018-19	2017-18	2016-17	2015-16	2014-15
1177.05	740.34	707.895	932.474	697.802

 Number of computers

Response: 583