



**SRM**  
UNIVERSITY  
(Under section 3 of UGC Act 1956)

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(Under section 3 of UGC Act, 1956)

## **ANNUAL QUALITY ASSURANCE REPORT (AQAR)**

**2009 -2010**

**INTERNAL QUALITY ASSURANCE CELL (IQAC)**

**SRM UNIVERSITY**

**SRM NAGAR, KATTANKULATHUR**

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**SRM UNIVERSITY**  
**ANNUAL QUALITY ASSURANCE REPORT (AQAR)**  
**2009-2010**  
**PART - A**

**The Annual Quality Assurance Report (AQAR) of the IQAC-2009-10**

**Part A:**

*(The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.)*

<b>Plan of action</b>	<b>Outcome</b>
Enhancement of infrastructure	<ul style="list-style-type: none"> <li>• Technology Park (16 storey) building at the cost of Rs. 55 crores completed.</li> <li>• 150 quarters for faculty members at the cost of Rs. 45 crores completed.</li> </ul>
Teaching learning process	<ul style="list-style-type: none"> <li>• Smart class rooms increased to 100 in numbers.</li> <li>• Question paper pattern modified to be more objective.</li> <li>• Lesson plans uploaded in website.</li> </ul>
Hiring highly competent faculty and enhancement of quality of existing faculty.	<ul style="list-style-type: none"> <li>• In order to ensure that only high quality faculty with requisite qualifications and experience are employed in SRM University “Rolling Advertisement” approach has been implemented. The internal promotions have been restricted only to the rarest of rarest cases and that too based purely on merit. All other existing faculty have to face open competition for upward mobility which will be again based on merit and performance criteria.</li> </ul>
Impetuous to academic research	<ul style="list-style-type: none"> <li>• Inter departmental research groups have been formed with the sole purpose of doing application oriented research leading to new product developed. The necessary infrastructure and funding will be provided by the University itself based on the peer committee review. The groups have already presented their pilot proposals.</li> <li>• Totally 283 papers in International Journals and 176 papers in Indian Journals have been published. Nearly 570 research scholars have registered for Ph.D</li> <li>• SRM Research Institute has been set up at Bangalore with the twin objectives of a) creating intellectual properties/patents/inventory disclosures and market- ready research prototypes and b) collaborating at peer to peer level with corporate R&amp;D laboratories.</li> <li>• Faculty are sponsored to attend international and national conferences /seminars/workshops. On 516 occasions faculty members have attended such programmes.</li> <li>• In order to encourage faculty getting funded projects an award of 2% of sanctioned fund of sponsored research project is given to principal investigator from SRM funds. In 2009-10 Rs 3.21 lakhs have been disbursed to the faculty.</li> </ul>

	<ul style="list-style-type: none"> <li>• Further awards in the form of cash are given to the faculty publishing in indexed journals. The award money in the year 2009 -10 has been Rs.1.53 Lakhs.</li> <li>• Similar awards have been instituted for the publication of books also</li> <li>• 98<sup>th</sup> Indian science Congress will be held at SRM University, Kattankulathur during 3-7 January 2011 and it will be customarily inaugurated by the Honorable Prime Minister of India. The Indian Science Congress is the largest national science event with about 7,000 delegates, Noble laureates, eminent scientists, faculty members and research scholars from different Universities, Institutes and National Laboratories participating, exploring, understanding, analyzing and interacting on matters of science. This is also the national forum where the future direction of the science in the country is seeded. The focal theme of the 98<sup>th</sup> Indian Science Congress is Quality Education and Excellence in Scientific Research in Indian Universities..</li> </ul>
Impetus to student research	<ul style="list-style-type: none"> <li>• SRM University Satellite (SRMSAT) is being designed and developed by the students and faculty members of ECE, EEE, CSE, IT, I&amp;CE, TCE and Mechanical Engineering Departments. SRMSAT has a mass of 11kg and average power generation of 14 watts with a mission life of one year. The scientific objective of SRM SAT is to estimate and monitor greenhouse gases in the infra red region using earth shine spectra. The satellite payload is a spectrometer operating in the near infrared spectral range of 900-1700 nm to record nadir spectra of the radiation emitted from a 1 km foot print under the spacecraft's path. The data obtained will have a significant impact on the estimation of atmospheric studies, particularly on the estimation of atmospheric green house gases globally. The total outlay of SRM Satellite Project is 1.5 crores of rupees.</li> </ul>
Improvement of Funded Research Programme	<ul style="list-style-type: none"> <li>• Funds to the tune of Rs. 230.36 lakhs have been received from different government funding agencies for 13 funded projects.</li> </ul>
Promotion of Entrepreneurship	<ul style="list-style-type: none"> <li>• SRM innovation and entrepreneurship centre ( SRMIEC) has been established</li> </ul> <p>The aim of SRMIEC is</p> <ol style="list-style-type: none"> <li>1. To create an ecosystem to nurture entrepreneurial skills.</li> <li>2. To facilitate creation of innovative ideas for application of knowledge that benefits the society.</li> <li>3. Initiating students to projects that would enable development of business and managerial thinking.</li> </ol> <p>Innovation centre enables young creative minds to pick up problem statements that have industrial, technological or societal challenge and generate ideas to find solutions. This centre also enables students try out novel technological ideas and work on pre-incubation project. Besides, the incubation centre gives access to more serious minds to incubate their ideas to a prototype and upgrade it to a commercial proposition.</p>

<p>Institute –Industry Interaction</p>	<p>Collaboration with 25 industries has materialized in the 22 areas including Onsite Educational Programmes, Collaborative Educational Programmes, Participation of industrial experts in curriculum design ,Training programmes / Short-term assignments to Exchange of students, Exchange of faculty Joint research programs / projects and Exchange of scholars, faculty members in industries etc. To facilitate all these activities 15 MoUs have been signed with various industries.</p>
<p>Accreditation</p>	<ul style="list-style-type: none"> <li>• Action has already been initiated to undergo NBA accreditation for 10 UG programs of E&amp;T.</li> </ul>
<p>Semester Abroad Program</p>	<ul style="list-style-type: none"> <li>• In order to enable the more talented and more competent of students to enhance their knowledge by competing with the best in the world a ‘<b>Semester Abroad Programme</b>’ has been launched which would see around 50 students every year from SRM University sponsored to undergo a semester of study in the reputed universities abroad located in countries like USA, UK and France.</li> </ul>
<p>Faculty Abroad Program</p>	<ul style="list-style-type: none"> <li>• Under the <b>Faculty Abroad Program (FAP)</b>, SRM sends faculty members to foreign universities for a tenure ranging from 2-3 weeks to one year. The short tenure can be for studying their curricula, teaching methodology, laboratory practices and other academic activities of that university. The experience gained through this study can be shared with SRM to add value to the academic practices at SRM. The longer tenure can be for research activities.</li> </ul>
<p>Faculty from Abroad in SRM University</p>	<ul style="list-style-type: none"> <li>• To make the campus environment truly international, visiting professors from foreign universities like USA, Germany, New Zealand, Japan, Australia etc have been recruited. This provides ample opportunities for both the students and faculty members to enrich their knowledge and skills to international standards and undertake joint research. SRM has in its employment around 6 visiting professors from foreign universities.</li> <li>• These visiting professors stay on-campus and SRM provides all facilities for pursuing their research. Their contribution will be in the form of enhancing the academic structure and environment, motivating and assisting in research activities and bringing in international flavour to SRM’s pursuit of excellence.</li> </ul>

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**PART - B**

## PART - B

### 1. Activities reflecting the goals and objectives of the institution:

Sl. No	Mission of the University	Activities carried out towards fulfillment of mission
1.	Create a diverse campus community that inspires freedom and innovation	Admission is based on All India Entrance Examination-SRMEEE thus enabling students from all the states of our country study in SRM campus. Through various student exchange programs, students from countries like China, France, Thailand etc study here.
2.	Strengthen educational processes	Implementation of credit based curriculum and delivery of lessons through digital courseware.
3.	Continue to build international alliances	Implementation of Semester Abroad Program, Faculty Abroad Program, Signing of MOUs, constitution of International Advisory Board and Corporate Advisory Board.
4.	Expand development opportunities available to students and faculty	Sponsoring students and faculty to attend International Conferences. Encouraging staff to register for higher studies at concessional fee structure.
5.	Cultivate exciting and rigorous research environments	Providing state-of-the art lab facilities. Commissioning of Modern library. Incentives for faculty getting funded projects.

### 2. New academic programmes initiated (UG and PG):2009-10

Name of the Program	Faculty
Civil Infrastructure Engineering (UG)	E&T
Architectural Engineering (UG)	E&T
Nanotechnology(UG)	E&T
Nuclear Engineering (UG)	E&T
BASLP (UG)	Medical
Genetic Engineering (Genetic) (PG)	E&T
MDS (PG)	Medical

### 3. Innovations in curricular design and transaction:

- Inclusion of purpose and instructional objectives.
- Detailed lesson plan
- Publication of lesson plan in website
- Integration of Theory and practical courses for PG programs
- Judicious use of black board and PPT
- Restructuring compensatory courses.

**4. Inter-disciplinary programmes started:**

- Nanotechnology(UG)
- Nuclear Engineering 9UG)
- Genetic Engineering (Genetic) (PG)

**Interdisciplinary activities**

Name of the Unit	Name of the Program	Parent department	Associate departments
SRM Dental College, Ramapuram	Seminars	Microbiology	M.Sc, Bioinformatics
	Lab diagnostic services	General pathology	SRM hospitals
	M.Sc projects, Quality Control MDS projects	Biochemistry	SRM Hospitals Bioinformatics, Periodontia and Oral Pathology
	Case discussions	Orthodontics	Oral Surgery and Periodontics
	Oral cancer screening	Oral Medicine and Radiology	Oral Pathology
	Joint clinics	Oral Maxillofacial Surgery	Orthodontics, Oral Pathology
SRM College of Physiotherapy	Basic Life Support	ICU	Department of Physiotherapy
	Airway Management		
	Ventilators		

**5. Examination reforms implemented:**

- Scrutiny of question paper by a specially constituted board.
- Review of answer scripts in the presence of students and faculty

**6. Candidates qualified: NET/SLET/GATE etc.**

Examination	NET/SLET		GATE		CAT		Civil Services		GRE		TOEFL	
	Appeared	Qualified	Appeared	Qualified	Appeared	Qualified	Appeared	Qualified	Appeared	Qualified	Appeared	Qualified
2009-10	23	5	278	65	98	9	136	5	560	427	795	602

**7. Initiative towards faculty development programme :**

- Faculty sponsored to attend programmes in India as well as abroad.
- Participation in refresher programmes run by NITTTR
- Conduct of in-house orientation programs



8. Total number of seminars/workshops conducted: 122

9. Research projects

a) Research projects newly implemented:

Sl. No.	Title of the Project	Names of the Investigators	Funding Agency	Month & Year	Total outlay (in Lakhs)
1.	Situational analysis of the program to combat anemia in Krishnagiri, Dharmapuri and Selam Districts of Tamil Nadu	Prof. Ch. Satish Kumar School of Public Health Dr. Rajan Patil Dr. Anil Krishna	UNICEF	March 2010	9.75
2.	Evaluation of the smoke free Chennai mass media campaign	Prof. Ch. Satish Kumar School of Public Health Ms. Geetha	World Lung Foundation Newyork	March 2010	3.00
3.	Epidemic and Pandemic preparedness response	Prof. Ch. Satish Kumar School of Public Health Dr. Rajan Patil Dr. Anil Krishna	UNICEF	March 2010	15.00
4.	Evidence Based advocacy strategy for revitalization of ICDS in Tamil Nadu – Phase II	Prof. Ch. Satish Kumar School of Public Health Dr. Anil Krishna Ms. Geetha	UNICEF	March 2010	5.69
5.	Near ground RF propogation studies for wireless sensor Communications	Dr. T. Rama Rao TeleCommunication Engineering	DST	March 2010	37.84
6.	DST-FIST	Dr. Malarvizhi Electronics and Communication Engg.	DST	March 2010	55.00
7.	Genetic engineering for Cellulose ethanol in clocstridium	Dr. Lizzy Selena	DST- Young scientist scheme	Feb. 2010	16.00
8.	Implementation of algorithms for trust and replication in mobile ad hoc networks	Prof. Revathi Venkataraman, CSE	DRDO	Jan 2010	5.00
9.	Modulation of Neural-Immune signaling by estrogen in reproductive aging	Dr. S. Thyagerajan School of Bioengineering	DST	August 2009	7.00
10.	Developing an integrated (Vertical & Horizontal flow) constructed wetland system for treating waste water from small community	Dr. Deeptha Thattai Civil	SERC-Fast Track proposal for young scientists scheme	June 2009	9.60
11.	Neureendocrine – Immune interactions in mammary tumorigenesis	Dr. S. Thyagarajan Dr. E. Berla Thangam, School of Bioengineering	DBT	June 2009	40.25
12.	Identification of efflux protein inhibitors to gram negative organisms using bioinformatics tools and in vitro analysis and crystallographic studies of target membrane protein-inhibitor complexes	Dr. Waheeta Hopper School of Bioengineering SRM Unviersity Dr. D. Velmurugan University of Madras	DBT-India AIST-Japan Bilateral project	June 2009	25.34
13.	Development and properties of fly ash and bagasse ash based Geo polymer concrete	Dr. P. Suresh Kumar School of Civil Engineering	Tamilnadu State Council for science and technology	May 2009	0.89
<b>Total</b>					<b>230.36</b>

**b) Research projects Completed: 2009-10**

SL. No.	Name of the Project	Department	Sponsoring Agency/ Department	Duration	Project Cost (Rs. in lakhs)	Principal Investigator
1.	Modulation of Neural – Immune Signaling by estrogen in reproductive aging.	Biotechnology	Department of Science and Technology (DST)	2007-2010	37.44	Dr.S.Thyagarajan
2.	Development of Nanofilters for water purification and supported nanoparticles for the removal of Volatile Organic Compounds from contaminated air	Nanotechnology Research Centre	Biotechnology	2006-2009	120.84	Mr.C.Gopalakrishnan
3.	Rhizosphere Microbial Community for Sulfur transformation in Rice	Biotechnology	Biotechnology	2006-2009	30.13	Dr.K.Ramasamy
4.	Prospecting of Genes for Oil Biosynthesis from Jatropha Curcas: Gene Discovery by Pooled Probe Hybridization and Large Scale EST Sequencing of Normalised cDNA Library from Developing Seeds	Genetic Engineering	Biotechnology	2006-2009	27.94	Dr.M.Parani
5.	Career Award for Young Teachers	ECE	Electronics and Communication	2006-2009	10.50	Ms.Shanthi Prince
6.	Equipping Laboratory	Food and Process Engineering	Ministry of Food Processing	2007-2010	50.00	Dr.K.Ramasamy

**10. Patents generated, if any:**

**The following patents have been filed in IPTO/USPTO**

1. “Novel method for producing Metal Nanodots”, Patent filed in India(2828/CHE/2009), Shivaraman Ramaswamy, Gopalakrishnan.
2. “Casino Phospho Peptides – A novel production method of CPP (Casein Phospho Peptides)” filed with DePenning & DePenning, (1304/CHE/2010).” Dr. Kantha Arunachalam & R.Balaji Raja.

3. "A novel herbal formulation advocated for the prevention and management of Coronary Heart Disease" filed with L.S.Davar & Co, (2270/CHE/2010), Registrar, Interdisciplinary School of Indian System of Medicine.
4. "Role of an herbal formulation in the prevention and management of age related neurodegenerative disorders with special reference to Senile Dementia" filed with L.S.Davar & Co, (2271/CHE/2010), Registrar, Interdisciplinary School of Indian System of Medicine.
5. "Prevention and management of Type 2 diabetes mellitus and associated vascular complications by a poly herbal formulation" filed with L.S.Davar & Co, (1708/CHE/2010), Registrar, SRM University.
6. System and method for constructing a university model graph, 1809/CHE/2010 ; 12/945,582 Sridhar Varadarajan, Srividya Gopalan, and Preethy Iyer
7. System and method for university model graph based visualization,1848/CHE/2010 ; 12/909,988, Sridhar Varadarajan, Srividya Gopalan, and Preethy Iyer
8. System and method for personal healthcare analysis and distributable archive, 2710/CHE/2010, 12/977,224, Sridhar Varadarajan, Sridhar Gangadharpalli, Amit Thawani
9. System and method for what-if analysis of a university based on university model graph, 3203/CHE/2010; 13/025,325, Sridhar Varadarajan, Srividya Gopalan, Preethy Iyer, and Amit Thawan
10. System and method for game state reduction ,3672/CHE/2010; 13/048,050, Sridhar Varadarajan and Amit Thawani
11. System and method for comparing universities based on their university model graphs, 3492/CHE/2010; 13/025,355, Sridhar Varadarajan, Srividya Gopalan, and Preethy Iyer

**11. New collaborative research programmes: (sanctioned in 2009-10)**

Sl. No.	Title of the Project	Names of the Investigators	Funding Agency	Month & Year	Total outlay (in Lakhs)
1.	Situational analysis of the program to combat anemia in Krishnagiri, Dharmapuri and Selam Districts of Tamil Nadu	Prof. Ch. Satish Kumar School of Public Health Dr. Rajan Patil Dr. Anil Krishna	UNICEF	March 2010	9.75

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<b>Total%</b>					<b>230.36</b>

**12. Research Grants received from various agencies :**  
Rs. 230.36 lakhs

**13. Details of research scholars:**

Faculty	No. of Students Registered
Faculty of Engineering and Technology	266
Faculty of Science and Technology	249
Faculty of Medical and Health Sciences.	56
Total	571

**14. Citation index of faculty members and impact factor: 1.0 (average)****15. Honors/Awards to the faculty:**

Dr. S. Sundarapandian	Best Teacher Award
Prof. Jaganathan	Life Time Achievement award
Dr Karunanidhi	The Shield of Honour
Dr. Meera Shivasekar	Best Teacher Award
Dr K.Thangaraj	Best Teacher Award
Prof. A.Balasubramanian	Best Teacher Award
Prof. V.Sundaravadivelu	Best Teacher Award
Prof. Jubilee	Best Teacher Award
Prof. A.Balasubramanian	Certificate of Appreciation
Prof.V M S Gani	Certificate of Appreciation
Prof Raveenthiran	Honorary FRCS
Dr.C.Panchapakesa Rajendran	The Palke award
Dr. Kamakshi Shanbhogue	Honorary FRCP
Prof. Anburajan	Birla Yuvaratna Award
Dr.Jayshree Suresh	Best Teacher Award
	Asia's Second Best B-School Award for Best Professor in Marketing Management

**16. Internal resources generated:**

Unit	Internal resources generated in lakhs (Rs.)
	Consultancy
Faculty of Engineering and Technology	252 Lakhs
SRM Dental College , Ramapuram	17 Lakhs
SRM College of Physiotherapy	5 Lakhs

**17. Details of departments getting SAP, COSIST(ASSIST)/DST. FIST, etc. assistance/recognition:**

Please refer Items 9, 11 & 12 above

### 18. Community services

Name of Unit	Nature of community service	Organised through(NSS/NCC etc)	Period
<b>SRM Dental College , Ramapuram</b>			
1	Diagnostic services for poor and Needy	SRMGH	Every Year
2	Diagnostic cancer screening camp	SRMGH and SRMW.Mambalam	Every Year
3	School and rural dental health programme	PCD rural service	Every Year
4	All extractions and minor surgical procedures done free of cost	General hospital	Every Year
<b>SRM College of Occupational Therapy</b>			
1	Screening camp at Amrithavidyalaya School	Alumini Association	Every year
<b>SRM College of Pharmacy</b>			
1.	Blood donation camp	SRM	Twice in a year
<b>SRM College of Physiotherapy</b>			
1	Apart from the services rendered at Guild of service and the banyan, rehabilitation service for special children is done at MAITHREE – School of rehabilitation center	SRM	Since Nov 07 till date
2	Field visit at Mammandur village to screen the disabled population	SRM	Every year Since Nov 07
<b>SRM College of Nursing</b>			
1	Working for village people	SRM	Every year
2	Mass health education	SRM	
3	Conducting awareness programme etc	SRM	
<b>SRM Medical College Hospital and Research Center.</b>			
1	World Breast Feeding Day	In collaboration with various agencies	Every Year
2	National Nutrition Week		
3	World Heart Day		
4	World Mental Health Day		
5	World Diabetic Day		

### 19. Teachers and officers newly recruited:

Professors- 18

Associate Professors : 25

Assistant Professors- 58

### 20. Teaching – Non-teaching staff ratio: 1:1.45

**21. Improvements in the library services:**

- Library timings revised to 8 am to 10 pm
- Own book reading rooms commissioned
- Loaning of laptops to faculty and students

**22. New books/journals subscribed and their value:**

Item	2009-10 Rs Lakhs
Books	179.6
e-books	25.3
Journals	80.3
Online journals	80.5

**23. Courses in which student assessment of teachers is introduced and the action taken on student feedback:**

Systematic student feedback is taken for all the courses – both theory and practical.

The feedback is taken on the quality of teaching through various attributes.

The feedback taken is evaluated through computer or manually and grading of the faculty is made. The deficiencies highlighted in the feedback are communicated to the faculty for introspection and for taking corrective and preventive action.

**24. Unit cost of education:**

Institution	Unit cost Including Salary Component
	(Rs.)
Faculty of Engineering & Technology	90048
SRM Medical College Hospital and Research Centre	978661
SRM College of Pharmacy	77556
Faculty of Science & Humanities	44030
SRM Dental College – Ramapuram	72117
SRM College of Nursing	90127
SRM College of Physiotherapy	95596
SRM College of Occupational Therapy	97324
SRM IMT Modinagar	94098

**25. Computerization of administration and the process of admissions and examination results, issue of certificates:**

Process	Extent of computerization
1. Admission process	100%-ERP
2. Issue of Id cards	100%-ERP
3. Student and staff attendance	100% - e-varsity
4. Award of internal assessment marks	85%-e-varsity
5. University examination process and award of degrees	100%-ERP
6. Accounts	100%-ERP
7. Tax deduction	100%-ERP
8. Internal communication	75%
9. Stores	37%
10. General administration	59%

**26. Increase in the infrastructural facilities:**

- Technology Park
- University administrative building
- Staff quarters

**27. Technology upgradation:**

Category	New technology introduced
Teaching methodology	Delivery of digital courseware through ppt, with direct access to internet through Wi-Fi in the class rooms.
Lab classes	Active learning lab- simulation and hands on experience
Administration	Computerization of records
Any other (please specify)	e-varsity and ERP

**28. Computer and internet access and training to teachers and students:**

Wi-Fi connectivity in the campus – 240 Mbps

**29. Financial aid to students:**

SRM University has granted scholarship to the tune of Rs. 9.00 crores in the following categories for the year 2009 – 2010.

1. Founders scholarship
2. Performance based scholarship
3. Sports and Cultural scholarship
4. Need based scholarship
5. Admission scholarship



## **1. Founders Scholarship**

- i) The founders scholarship consisting of academic merit scholarship for state board and CBSE students who have secured 90% and above have chosen from the students admitted during the academic year 2007 – 08. This includes full tuition fees waiver, book fees, hostel and mess fees and an additional stipend of Rs. 1000/- per month.
  - ii) **Sports and Extra curricular achievements scholarship** : SRM University has been promoting excellence in the country, particularly in the Southern part of India. One will be proud to know that students from SRM University are very actively participating in all State / University / National / International level sports events and bringing laurels, medals, trophies and more than that good reputation to the University. The University Management has also taken a policy decision to admit the students under sports quota by providing complete fee-waiver with tuition fees, book fees with free boarding and accommodation etc. The total concession works out to Rs.55 Lakhs for this academic year for 65 students.
  - iii) **Economically Challenged** : This scholarship for Economically challenged students considering their academic merit and the parents economic background. Only one student identified under this category is being given full fees waiver of Rs.1,50,000/-
2. **Performance based Scholarship** : This scholarship instituted for the benefit of all II Year, III Year and IV the year students based on their previous year academic performance (University Examination results) top ranks ranging from 1 to 12 ranks depending upon the student strength in the branch/year. The total benefited students are 279 and the scholarship amounts to Rs.75,00,000/-
  3. **Need Based Scholarship** : Every year the management is extending scholarship and fees concession for the students like SC/ST, wards of Ex-Servicemen, students affected by Tsunami, Physically handicapped parents students, wards whose parents are severely affected on medical grounds. Freedom fighters wards, poor agriculture family, coolies and petty shop keepers and daily wages workers wards totaling 80 students amounting to Rs. 25 lakhs.
  4. **Admission scholarship**: This scholarship is extended to the students who have scored above 90% in their State Board / CBSE examinations and the students chosen from the admitted during the academic year 2007 – 08. This scholarship will be given waiver of 50% tuition fees amounting to Rs.64.12 lakhs.
  5. **Scholarship for differently-abled students** This scholarship is offered to physically challenged students and they get the full fee waiver.

In addition to the above SRM Engineering College provides following government aided scholarships.

#### **SC/ST SCHOLARSHIP SCHEMES**

1. Government of India (Decentralized) scholarship
2. Chief minister's award (Tamil Nadu)
3. Government of India Loan scholarship scheme
4. Government of India Merit scholarship (Gandhi Memorial award)
5. SC/ST Merit scholarship scheme sponsored by ONGC

#### **SCHOLARSHIP FOR ECONOMICALLY WEAKER STUDENTS BY SRM UNIVERSITY**

1. Every year economically weaker students are identified for award of fee waivers based on their merit. In addition financial assistance in the form of books is sponsored by the Alumni Association of SRM University.
2. Fee waiver is also extended to the students who have scored the highest marks in Plus 2 as well as semester examinations conducted by this University. This scholarship is sponsored by Valliammai Trust.
3. Ward of staff working in SRM Group of Institutions are eligible to get tuition fee waiver up to 50% of the fees.

#### **BC/MBC/DNC**

1. Backward class welfare merit scholarship (Tamil Nadu)
2. Most backward class and De-Notified Communities welfare merit scholarship
3. Most backward class and De-Notified Communities welfare merit scholarship scheme in the Dist. Level for students scoring high marks in +2 level Government examinations.
4. Arignar Anna/Thanthai Periyar Memorial scholarship scheme for meritorious MBC/DNC students.

#### **OTHERS**

1. National Talent search scheme – Award of Scholarship sponsored by NCERT, New Delhi.
2. Scholarship by Rajaasthani Association Tamil Nadu.
3. Government of India National Merit scholarship schemes
4. The Tamil Nadu Education Trust-Fresh scholarship for the meritorious students
5. National Foundation for Teacher's Welfare award of Scholarship to the wards of the teachers pursuing higher studies in professional degree courses.

6. Grant of departmental scholarship-BSNL Ltd, Tamil Nadu
7. Award of merit scholarship from Central Warehousing Corporation (CWC)
8. Foundation for Academic Excellence and Access (FAEA) – Scholarship Grant.
9. National scholarship scheme – wards of officials sponsored by Accountant General
10. Nehru Memorial scholarship sponsored by NALCO (National Aluminum Company Ltd., Bhuvanesar).
11. Stipend for students sponsored by Directorate of Higher Education Tripura.
12. Award of scholarship to the wards of BEEDY workers sponsored by BEEDY welfare association.
13. Special fund for reconstruction/rehabilitation of Ex-servicemen.
14. Higher education scholarship sanctioned by Directorate of Education Government of Pondicherry.
15. Stipend and book grant sanctioned by Government of India Ministry of Home Affairs North Eastern Council Secretariat, Shillong.
16. Stipend and Book grant sanctioned by Government of Arunachala Pradesh Office of the Chief Engineer (WZ) PWD, A.P. Itanagar
17. Welfare scholarship for labor-sanctioned by the Asst.Welfare commissioner Govt. of India, Ministry of Labor, Madurai.
18. Welfare Scholarship sanctioned by O/O IAF, Benevolent Association, New Delhi
19. Welfare scholarship sanctioned Central Wakf Council, New Delhi.

**30. Activities and support from the Alumni Association:**

In addition to students from Faculty of Engineering and Technology, students from other faculties also included.

**31. Activities and support from the Parent-Teacher Association:**

1. Inaugural function on the opening day is conducted in an elaborate manner in all the three Faculties well attended by the parents.
2. Parents are periodically informed of their wards' progress in academics.
3. Whenever disciplinary problems arise parents are taken into confidence and they are advised on the course of action to be taken from their side.
4. Parents are updated on the activities of SRM University through the campus newspaper "Spectrum"

**32. Health services:**

Both students and faculty members are treated free of cost in all the Outpatient departments of the SRM Medical College Hospital and Research Centre. Medicines are also provided free of cost. Investigations and surgical procedures are done at concessional rates.

**33. Performance in sports activities:**

S.No	Name of the Game	Name of the Tournaments & Venue	Position
1.	Chess (Men)	South West Zone, Hosur	I Place
2.	Volleyball (Men)	All India Inter Zonal, Varanasi	I Place
3.	Basketball (Men)	South Zone, VIT University, Vellore	II Place
4.	Volleyball (Women)	All India Inter Zonal, Raipur	IV Place
5.	Basketball (Women)	South West Zone, Kottayam	IV Place
6.	Chess (Men)	SPREE 2010, Goa	I Place
7.	Cricket (Men)	SPREE 2010, Goa	I Place
8.	Volleyball (Men)	SPREE 2010, Goa	I Place
9.	Basketball (Men)	SPREE 2010, Goa	I Place
10.	Badminton (W)	SPREE 2010, Goa	I Place
11.	Table Tennis (Men)	SPREE 2010, Goa	II Place

**34. Incentives to outstanding sports persons**

- The university has been promoting excellence in sports in the country, particularly in South India. Students from the university actively participate in all State / University / National / International level sports programs and bring laurels to the university.
- The management admits students under “Sports quota” and provides them complete fee waiver with free boarding and accommodation depending upon their sports record at the University / State/ National / International level.
- The students are given additional coaching, sports kits, and blazers. They are provided with liberal financial support whenever they represent the university at regional and national level. They are also provided special academic coaching if required.
- There are a few Central/ State government scholarship for students proficient in sports activities. The university awards certificates, gold medals, shields, etc., to deserving sports persons to motivate them to achieve excellence in their pursuit of sports.

### 35. Student achievements and awards:

#### Faculty of Engineering and Technology

#### SCHOOL OF CIVIL ENGINEERING

Name of the Student	Details of Achievements	Topic
J.Sathyanarayanan Abhishek kumar –III B.Tech Civil	Won I Prize in paper presentation of “Nirmaan 2k8” Osmania University, Hydrabad	Long Welded Rails
Mickey Mecon Dalbera Ajay Kanodia –III B.Tech Civil	Secured II position in paper presentation of “Nirmaan 2k8” Osmania University, Hydrabad	Structural Sensors
Shailesh Kumar Jha –III B.Tech Civil	Secured I Position, paper presentation,” Recent Advances in Bio Engineering” Department of Bio Technology, SRM University	Bio Engineering
Asmita Singh Katiyar –I M.Tech Environ. Engineering	Secured I position, paper presentation” Recent Advances in Bio-Engineering” in Bio-Tech Department, SRM University	Bio Engineering
C.Ashokkumar Deepak Ravikumar –IV Year B.Tech –Civil	Participated in Model Making in “Nirmaan2k8”,Osmania University, Hydrabad held on 21-23 February 2008	Model Making
K.Guruswamy C.Ashokkumar P.Madankumar -IV Year B.Tech	Won Ist price in CADD contest held in Tagore Engineering	CADD Contest
K.Guruswamy C.Ashokkumar P.Madankumar - IV Year B.Tech-Civil	Won Ist price in CADD contest held in IIT,Madras , CCA Fest on 08.03.2008	CADD Contest
Deepak Ravikumar Aqueel Syed – IV-B.Tech –Civil	Won II price in paper presentation in Nirmaan held in Cochin University of Science and Technology,	-
Deepak Ravikumar – IV Year B.Tech-Civil	Won 3 <sup>rd</sup> Price in brain Teaser event in CUSAT	-
Rahul Satya Ramesh Potti – I M.Tech (RS & GIS)	Won I Price in Quiz contest held in Anna University, Chennai	GIS & Image Processing
Nitin Majidfarooq –I M.Tech ( RS & GIS)	Won II Price in Quiz contest held in Anna University, Chennai	GIS & Image Processing

<b>Name of the Student</b>	<b>Details of Achievements</b>	<b>Topic</b>
Rahul -I M.Tech(RS & GIS)	Won I Price in Quiz contest held in Anna University, Chennai	Image Interpretation
Nitin Majidfarooq – I M.Tech ( RS & GIS) Peeyush	Won II Price in Quiz contest held in Anna University, Chennai	Image Interpretation
Peeyush Gupta - I M.Tech(RS & GIS)	Won II price in Geohorizon-08 conducted by Anna University, Chennai	Remote sensing data for Engineering resource mapping

**36. Activities of the Guidance and Counseling unit:**

The career guidance cell is a unique feature of SRM University. The personality Development Course offered through the first three years is indeed the first of its kind. The course is aimed at inculcating the required skills among the students.

It enables them to evaluate themselves, set goals, prioritize and work toward attaining success. The department aims at transforming students into confident and highly communicative young professionals who are ready to meet the industry demands.

The career guidance cell proposes to extend its activities by providing training for GRE, GMAT & TOFEL and for all competitive exams.

**37. Placement services provided to students:**

**PLACEMENT**

Placement and Training Cell of SREM University takes care of the placement and training needs of the students. The functions of the cell can be broadly stated as follows:

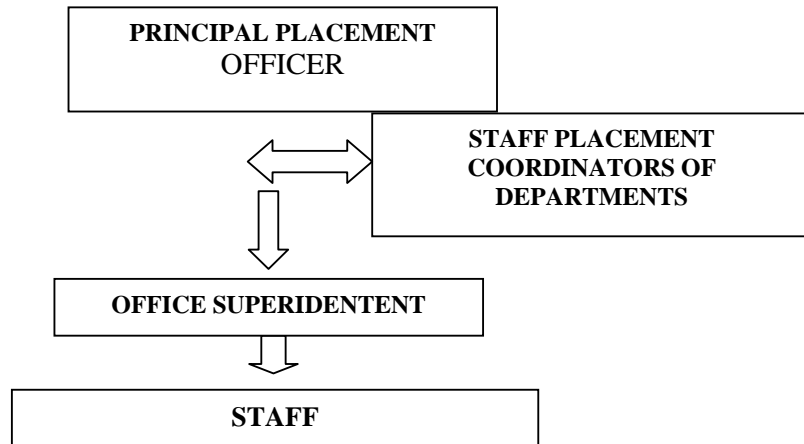
1. Prepare, update and maintain an exhaustive list of potential recruiters of the students of F(E&T)
2. Prepare a list of students belonging to all programs who are eligible for placement. The list is prepared after laying down the norms of eligibility as preferred by the recruiters. Since these eligibility norms vary from one recruiter to another, the list may contain various sub- groups.
3. To liaise with and convince the recruiters and arrange campus recruitment programs in a planned manner.
4. With the support staff available in the P&T cell and with the help of faculty in the departments, placement process prescribed by the recruiters is conducted. The

placement process may consist of administering written tests, conducting group discussions & interviews etc.

5. To arrange pre-placement training for the students before they undergo placement process.
6. To get feed back from the recruiters on the performance of the students in the recruitment process and disseminate the same to the departments.
7. As and when required, to interact with the recruiters and get information on the performance of candidates recruited from SRM in their respective jobs.
8. To enable the students in undergraduate programs to undergo in-plant training in industries.
9. To maintain the records and statistics related to placement activities.

### **ORGANISATION CHART**

#### **PLACEMENT AND TRAINING CELL**



#### **I. Placement Record**

**SUMMARY OF PLACEMENT RECORDS : 78%**

#### **38. Development programmes for non-teaching staff:**

Computer literacy programs conducted across the university.

### **39. Healthy practices of the institution.**

**Following are some of the healthy practices adopted to imbibe vigor in the teaching learning process**

- Institute Industry Interaction
- Semester Abroad Program
- Faculty Abroad Program
- Employment of foreign professors in SRM
- Cash award for faculty publishing refereed in journals.
- Best performance award to faculty- department-wise.
- Cash incentive to faculty with 100% pass in the courses handled.
- Scholarship for differently-abled students
- Admission of students on sports quota.
- Food courts
- Bookstalls- Higginbotham's
- Places of worship
- Open communication between students and the Vice Chancellor.
- Wi-Fi connectivity
- Teaching fellowship

The details of the abovementioned healthy practices are given in following paragraphs.

#### **INSTITUTE INDUSTRY INTERACTION**

SRM University is taking lot of initiatives in the area of Industry – Institute Interaction and has established a separate Institute – Industry Interaction Cell (IIIC) headed by a Dean. This Cell coordinates with all the Faculties of the University as well as Industry to have a closer linkage in the areas such as On-site Educational Programme, Consultancy, Collaborative Programmes, Setting-Up R&D Laboratories, Joint Research programmes, Exchange Programmes, and other areas of mutual interest.

#### **Initiatives of IIIC taken up during the year**

An On-site Education Development Programme (OEDP) agreement was signed with NOKIA for awarding B. Tech. (ECE), and B. Tech. (Mechatronics) for their employees now holding diploma. The classes for them are conducted by SRM Faculty at the company's premises. Such programs enable the companies to reduce the attrition rate of their employees.



A collaborative program between School of Civil Engineering, SRM University and University of Dundee, Scotland, called UK-India Education and Research Initiative (UKIERI) has recently been initiated.

Cognizant Technology Solutions (CTS), Chennai signed a MoU for conducting symposiums, workshops, faculty training, visiting faculty scheme, and to conduct “EVOLVE” workshop to enhance employability skills of the students.

A University Alliance Program was signed to establish the PREMIA Academy of Insurance and Technology to nurture young talent in the field of insurance and technology through collaboration with 3i InfoTech Ltd., Mumbai.

A MoU has been signed with JUSE (Union of Japanese Scientists and Engineers) the highest International Professional body for Quality. The MoU envisages collaborative work in the areas of developing educational / training programmes on TQM, to conduct national and international seminars jointly with JUSE, highlighting the theme of TQM principles and practices to be adopted / being adopted by successful companies all over the globe, vying with each other to maintain international quality standards. The MoU also envisages training of preliminary inspectors for industries aspiring for Deming Awards.

## **SEMESTER ABROAD PROGRAM**

### **Description**

SRM sends many students and students to foreign universities for one semester under exchange / twining programs. Recently around 48 students were selected, under **Semester Abroad Program (SAP)**, and sent abroad to study one semester in Universities in USA, FRANCE, and ENGLAND. Scholarships are also provided to the students who are going abroad. Under this Semester Abroad Program, SRM aims at sending 100 students every year to foreign universities. This program provides a platform to the students

- (1) to have an international exposure in higher education,
- (2) Get an opportunity to work with eminent professors of the universities and upon proving their mettle, stand a good chance of getting direct admission to subsequent higher studies in that University.
- (3) Get an opportunity to work in a cross-cultural, multi-national environment.
- (4) Acquire or improve self-confidence and independency.

## **FACULTY ABROAD PROGRAM**

Under the **Faculty Abroad Program (FAP)**, SRM aims at sending 50 faculty members to foreign universities for a tenure ranging from 2-3 weeks to one year. The short tenure can be for studying their curricula, teaching methodology, laboratory practices and other academic activities of that university. The experience gained through this study can be shared with SRM to add value to the academic practices at SRM. The longer tenure can be for research activities.

Also SRM has received, under the exchange program, TWO students from University of Tours, France, who will be spending one semester in SRM during January –June 2008 and one Chinese Language teacher from Guongdong Normal Polytechnic University (GPNU), China. Many foreign universities like University of Central Oklahoma, Birmingham City University, UK, Kyushu Institute of Technology, Japan etc, turn to SRM University for joint programs in Nursing.

## **CASH AWARD FOR FACULTY PUBLISHING IN REFEREED JOURNALS**

Every year faculty who publish in refereed journals are given cash incentives in addition to the reimbursement of the expenses incurred in publishing the paper. A committee is constituted for this purpose to select the papers.

## **BEST PERFORMANCE AWARD TO FACULTY- DEPARTMENT-WISE.**

Faculty who perform well in teaching, research and who contribute to the cause of the institution by shouldering additional responsibilities are selected and cash awards are given in every department.

## **CASH INCENTIVE TO FACULTY WITH 100% PASS IN THE COURSES HANDLED.**

To encourage faculty to involve themselves wholeheartedly in teaching and to take special care of the marginal students, cash awards are given to those who produce 100% pass in the courses handled.

## **SCHOLARSHIP FOR DIFFERENTLY-ABLED STUDENTS**

This scholarship is offered to physically challenged students and they get the full fee waiver.

## **ADMISSION OF STUDENTS ON SPORTS QUOTA.**

To promote sports in the campus, SRM University offers free admission to sportspersons in different faculties with full fee waiver. Every year around 100 students avail themselves of this facility with the fee waivers amounting to more than Rs. 75 lakhs.

## **FOOD COURTS**

Food courts of leading business houses like Reliance etc are given permission to set-up food courts so that students are provided with a variety of hygienically prepared food at economical rates.

## **BOOKSTALLS- HIGGINBOTHAM'S**

Through a tie-up with Higginbotham's, a book house has been established within the campus to enable students to nurture their reading habit by foraying outside their subject specialization.

## **PLACES OF WORSHIP**

In order to foster religious harmony and to provide facilities for worship separate religious places of worship have been provided which are well used by the student community.

## **OPEN COMMUNICATION BETWEEN STUDENTS AND THE VICE CHANCELLOR.**

Usually a communication barrier exists between the students and the top management which sometimes create discontent among the students. In order to overcome this problem and ensure harmony and participation at all levels, students and faculty can directly contact the Vice Chancellor through e-mail and offer their suggestions for improvement of any practice or activity. This facility has been well appreciated by the student and faculty.

## **WI-FI CONNECTIVITY**

Because of the availability of Wi-Fi connectivity in the campus students have free access to internet thus enriching their knowledge. In the evening it is a wholesome sight to see students sitting under trees, in play grounds accessing internet through their lap-tops.

## **TEACHING FELLOWSHIP**

Every year interested and meritorious students but who are economically challenged, doing their PG/Ph.D programs, are selected to take classes for the UG courses and they are paid remuneration.

## **ADDITIONAL INFORMATION**

To make the campus environment truly international, visiting professors from foreign universities like USA, Germany, New Zealand, Japan, Australia etc have been recruited. This provides ample opportunities for both the students and faculty members to enrich their knowledge and skills to international standards and undertake joint research. SRM has in its employment around 6 visiting professors from foreign universities.

These visiting professors stay on-campus and SRM provides all facilities for pursuing their research. Their contribution will be in the form of enhancing the academic structure and environment, motivating and assisting in research activities and bringing in international flavour to SRM's pursuit of excellence.

Also SRM has received, under the exchange program, TWO students from University of Tours, France, who will be spending one semester in SRM during January –June 2008 and one Chinese Language teacher from Guongdong Normal Polytechnic University (GPNU), China. Many foreign universities like University of Central Oklahoma, Birmingham City University, UK, Kyushu Institute of Technology, Japan etc, turn to SRM University for joint programs in Nursing.

SRM has been able to attract many students from USA, Canada, China, Ghana, UAE, Sri Lanka, Nepal etc in the faculties of Engineering and Technology, Medicine. At present there are around 44 NRI/foreign students studying in the current academic year and SRM plans to increase this to 8-fold next academic year. SRM will be admitting around 300 Chinese students in the year 2008. SRM University has positioned itself strategically to receive large number of foreign students in the coming years.

**40. Linkages developed with National / International, academic / Research bodies**

- International Advisory Board and Corporate Advisory Board are fully functional.
- MoUs increased To 58

**41. Any other relevant information the institution wishes to add:**

Following faculty development programs have been conducted for the benefit of teaching staff.

- Mentoring people using Cars and Kites- 1 day
- Case methodology of Teaching- 1 day
- Creativity and Innovation in Teaching- 1 day
- Regional Convention on “Unfinished Agenda for Youth”- 1 day
- Statistical Package for Social sciences (SPSS)- 2 day
- Japanese Technique of 5S concept
- Service Excellence in Education- 1 day

**SRM UNIVERSITY**  
**ANNUAL QUALITY ASSURANCE REPORT (AQAR)**  
**2009 -2010**  
**PART - C**

## **PART - C**

### **Detail the plans of the institution for the next year-2010-11**

- Create an exciting research environment to be able to realize targeted funded projects and knowledge creation.
- Significantly enhance our academic networking with eminent professors and researchers across the country by inviting them for special lectures, doctoral committees, seminars, conferences and other functions.
- Connect with large number of leading industry at senior level helping placement.
- Lift up the quality and impact of the National and international conferences aligning with association and industry of repute reflecting high standards.
- Utilize powerful international connections for exchange of students and faculty enhancing curriculum and syllabus and joint research to achieve international standards and faculty. Make interactions across all levels delightful, respecting and regarding with mutual trust and team spirit.
- Greater emphasis on student discipline and performance creating academic rigour and transform the institution to be student centric helping and caring.
- Share and optimize the resources in the University.
- Build a strong linkage with alumni and parents making them as involved stake holders of our system.
- Instill a sense of pride and belonging at all levels from Directors to students as a single family.

**Prof. G. Augustine Maniraj Pandian**  
**Principal Co-ordinator IQAC**

**Prof. P. Sathyanarayanan**  
**Vice Chancellor**  
**Chair Person, IQAC**