

CRITERION VII – INSTITUTIONAL VALUES & 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 last five years

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

B.S.Abdur Rahman Crescent Institute of Science and Technology undertakes several measures and programmes to promote a culture of respect and equality for female gender and also to provide opportunities and programs for female gender to be financially, mentally and emotionally empowered. This helps to promote their growth as individuals in their own right. Various programmes are organized every year to promote gender equality.

Years	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-19
Numbers	12	14	16	17	18	12

Total : 77

FILE DESCRIPTION	DOCUMENT
Report of the event	7.1.1.a
Upload any additional information	7.1.1.b
List of gender equity promotion programmes organized by the institution (Data Template)	7.1.1.c

7.1.2 Institution shows gender sensitivity in providing facilities such as:

- Safety and Security
- Counseling
- Common Room

Our Institute takes various measures and provides all facilities to ensure safety and social security of all the inhabitants of the campus.

SAFETY AND SECURITY

- Director (Security & Hostels) has been appointed on to monitor the safety and security of the Campus.
- Security officers are posted in different locations
- Electronic surveillance through 244 CCTV cameras covering the strategic locations of the campus
- Timings for entry and exit into hostels
- 24x7 ambulance service available within the campus
- Seniors officials reside inside the campus for easy approachability during emergencies
- Proctorial board members keep a watch over students to prevent any ill treatment or harassment to girls.
- Resident wardens at every block in the hostel.
- Girls are also sensitized about safety & Security precaution.
- Self defense classes are also being organized on a regular basis
- Students are briefed during orientation to be caring and respectful toward girl's students.
- Internal Complaint Committee (ICC) for students to report in case of any incident / harassment where complaints are attended to promptly & complete confidentiality is maintained.
- Separate seating arrangements have been made for dining in the canteen.
- Staff and students must put security sticker on their vehicles.
- Staff and students travelling in the college bus have been issued with bus pass. They should produce it on being asked.
- Proper gate pass be made for receipt and sending out stores /equipment etc. Director Security should sign this.
- Main gate will be opened fully from 08.45 AM to 09.15 AM in the morning and from 4 PM to 4.45 PM for ingress and outgress of vehicles and students. Gate will be kept closed at all other times and opened only after checking the identity of person seeking entry.
- No vendor / visitor should be allowed in without entry in the register. They should be issued Vendor/ Visitor pass which they should be requested to wear and display.
- Passed out students should also be requested to make entry in the register and display

their ID.

- Security sticker on all two wheelers and four wheelers will be checked. Names of the owner of the vehicles not having sticker will be noted down and details provided to Security officers.
- Mutual consultation and training will be carried out with Home Tech Security Services periodically.
- Following persons are provided with Walkie – Talkie: -
 - Guard at main Gate and GST Gate.
 - Guard at the Barrier (Entry to Ladies Hostel)
 - Guard at VC Villa.
 - Security Officer of Crescent Institute of Science & Technology.
- A proper record of guard checking will be maintained and shown to Director Security at 10 AM on every Monday.
- Suspicious movement of any person will be reported immediately.
- Dependents of staff members staying in the Campus (between the age of 18 & 60 years) have been issued Identity Card. These should be checked before being allowed entry. Guests of staff members should be requested to park their vehicles at the designated place for Guests/ Visitors at the Staff quarters.

COUNSELING

- At the department level every student is attached to one faculty advisor who helps the students in academics, co curricular and extracurricular activities and making career choices.
- Faculty advisor shall guide the students in taking up the elective courses for registration and enrolment in every semester and also offer advice to the students on academic and related personal matters.
- Counseling is carried on with the students periodically to ensure the well being of the students.
- Slow learners are advised on the methodology to be adopted while studying tough subjects
- Toppers are motivated to get University ranks and to focus on higher studies
- Students interested in higher studies are advised on exams that have to be taken up for higher studies and also inform about the various opportunities for higher studies

available within India and also abroad.

- Students, if found in lack of attendance, then they are counseled to maintain the regularity.
- Students finding difficulty with the problematic subjects are also counseled to take up peer learning etc.
- Students aspiring to attend Civil Service exams are also given suitable counseling to pursue their dreams.
- During counseling students are also motivated to take up innovation projects and challenges that are beneficial to the society.
- Students are also counseled to encourage their participation in the other co-curricular activities such as paper presentations, technical quiz etc conducted by other universities/ colleges.
- Students interested in sports and other extracurricular activities are advised suitably to concentrate both on sports and also in academia.
- Student's results during the continuous assessments are monitored and in case of poor performance, the student's problems for failure are addressed and necessary counseling for improvement is provided.
- In case students are having difficulty in choosing an project related to curriculum or any electives, they are advised based on the need of the hour and also based on the interest of the students.
- Students are also counseled on not to involve in any kind of malpractice during examinations and also to maintain the decorum of examination.
- Students who are having fear to face examinations are also counseled on the easy approach to handle examinations.
- Students are also counseled on their attitude with the faculty members and other fellow mates in the class room. They are advised on the rules and regulations that have to be practiced in the class and also in the college.
- During the orientation, students are briefed that in case they feel depressed / disturbed due to any reasons they should approach their class advisor /faculty advisor and in case they are not satisfied, they should contact the office of dean student affairs.
- Facilities of Trained counselors are also available. Confidentiality is being ensured.
- Institute has Crescent Professional Counseling Centre (CPC).
- Dr. S.Hameed Kadar Ali is the full time counselor in this institute, Students as well as

Teachers can get counseling at the Centre.

COMMON ROOM

Common rooms for day scholars are provided in the following blocks

- ❖ Architecture Block
- ❖ Building Science Block
- ❖ Computer Science Block
- ❖ Convention Centre.
- ❖ Crescent Business Block
- ❖ Electrical Science Block
- ❖ Mechanical Science Block
- ❖ Pharmacy block
- ❖ Separate Prayer Hall

- The common rooms are well equipped with suitable lighting facility for studying.
- Table and chairs are provided for the benefit of the students.
- The common room provide an ambience of calm environment suitable for students
- It is also used during examination to prepare for their exams.
- Students involved in the group studies also utilize the common room during their exams.
- There are common rooms identified in each block for the benefit of the students.
- Students involved in the group discussions regarding their project works also utilize the common group.
- The common rooms are available separately for boys and girls students.
- The provision of separate common rooms for girls will benefit them to carry out the activities with more ease and freedom.
- The common rooms are used by the students for conducting prayer.
- Students can be peacefully involved in their prayer in the common rooms
- Common rooms are also provided with suitable electrical connections so that students can work using their laptops etc.
- The common room is also provided with internet connectivity so that it facilitates the students to access the needed information.
- It is also ensured that the common rooms are also naturally ventilated.
- Availability of common rooms at each block will facilitate more usage of students.
- Students if wanted to involve themselves into meditation etc can also utilize this common room.

- It is ensured that the common rooms are cleaned and dusted daily.
- The students are also advised to maintain the cleanliness of the common rooms.
- Common rooms especially in the library blocks are utilized as study room by students because of the ease to access the books from the library.
- Students involved in the preparation of various exams utilize this study rooms because they can access the books easily form library.
- Students are also requested to maintain silence in the common rooms so that they are not disturbing the other fellow mates using the common room.
- Complete safety of the students using the common room is ensured.
- Frequent visit by security personnel will ensure the safety of the students utilizing the common room.
- In case of any issues related to the facilities of the common room, the complaint is raised and it will be addressed immediately so that students are not affected.
- Any number of frequent visiting to the common room by students is permitted.
- Large number of students are benefitted by the common rooms because it provides a (i) good study environment (ii) Peaceful place for prayer (iii) secured place to carry out the work with utmost concentration and focus.

FILE DESCRIPTION	DOCUMENT
Upload any additional information	7.1.2.a
Paste link for additional information	7.1.2.b

7.1.3 Environmental Consciousness and Sustainability

Alternate Energy initiatives such as:

Percentage of annual power requirement of the Institution met by the renewable energy sources (current year data)

50.01%

B.S.Abdur Rahman Crescent Institute of Science and Technology undertakes initiatives to obtain energy from various natural resources. The Institute is pioneer in establishing renewable energy sources to meet the energy requirement of the campus.

Three Roof top solar power plants of total capacity of 550 KWp are installed in our campus. at a cost of Rs 3.16 crores. Biogas plant of capacity 550kg/day also installed in our

campus at hostel.

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

17,66,949 KWH

7.1.3.2 : Annual power requirement of the institution (in KWH)

35,26,846 KWH

Percentage of annual power requirement of the Institution met by the renewable energy sources (current year data):

50.01 %

Power requirement met by renewable energy sources and total power requirement:

FILE DESCRIPTION	DOCUMENT
Upload any additional information	7.1.3.a
Upload details of power requirement of the university met by renewable energy sources (Data Template)	7.1.3.b

7.1.4 Percentage of annual lighting power requirements met through LED bulbs (current year data)

81%

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

2,48,346 KWH

7.1.4.2 : Annual lighting power requirement (in KWH)

3,06,600 KWH

Percentage of annual lighting power requirements met through LED bulbs (current year data):

81 %

Lighting power requirements met through LED bulbs:

81 %

FILE DESCRIPTION	DOCUMENT
Upload any additional information	7.1.4.a
Upload details of lighting power requirements met through LED bulbs (Data Template)	7.1.4.b

7.1.5 Waste Management steps including:

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

WASTE MANAGEMENT PRACTICES

SOLID WASTE MANAGEMENT

- B.S.Abdur Rahman Crescent Institute of Science and Technology is committed to ensure that the built infrastructure of the institute has sustainability as a core principle in maintenance management of the campus.
- Estate office aspires to follow a range of sustainable design features and practices implemented to build and maintain the institute as a complete green and sustainable campus continuously.
- The solid waste management is practiced to safely dispose the waste generated at the campus by way of segregating the waste as organic waste, recyclable waste and inert waste and processing the waste thus segregated.
- Implementation of solid waste management inside the campus is outsourced to GREEN SERVICES TRUST and an average of Rs 24.0 lakhs per annum is spend towards salary for the staffs.
- Every year our institute contributes waste papers towards national recycling initiative organized by ITC Ltd (paper boards & specialty paper division) which is equivalent to saving 750 trees on an average.
- Our Institute received certificate of Appreciation from Green Services Trust for partnering in implementing solid waste management project in the campus in an environment friendly manner and diverted 1,44,655 Kg of waste from landfill to recycling during the year 2017-2018.

AVERAGE MONTHLY WASTE GENERATION

Total Waste Collected: 14037 Kgs.

Total Organic waste: 9096 Kgs. – 64.80%

Total Recyclable waste: 4252 Kgs. – 30.29%

Total Inert waste: 689 Kgs. – 4.90%

ACTIVITIES CARRIED OUT

- Two bins system is followed for waste collection one for organic and one for recyclables.
- Collection of waste from the campus is done through a tractor and with the support of six man power.
- The collected segregated waste will be unloaded at the waste processing yard and processed through 15 staff called as 'Green friends'.
- The waste generated at the campus will be processing as per SWM Rules 2016
- Bio-degradable waste is composted under windrow composing method
- Recyclable waste is further segregated and disposed through vendors on need basis.
- Sanitary napkins waste is safely disposed using an incinerator fitted with wet scrubber for pollution control
- Food waste is fed in the bio gas plant and the gas is utilized for cooking purpose in the canteen
- E-waste and hazardous waste is handed over to the authorized processors and certificate of destruction as per norms is obtained from the processor.
- 15 Green Friends (persons engaged for waste processing) engaged to carry out above mentioned work. 2 Supervisory staff also been engaged for coordination and awareness creation activity at the campus and 6 green friends are engaged for waste collection and maintenance of bio gas plant.
- Different types of Solid waste management Training and Awareness program conducted to college students, staff, Housekeeping workers, security and green friends.
- The harvested bio compost will be given to the estate office every month, nearly 2000kgs, for garden use
- Every month around 4000kg of recyclable waste is removed from waste yard for process.

LIQUID WASTE MANAGEMENT

The University takes sufficient measures to treat the wastewater generated within the premises and it ensures that the treated water is reused within the campus. Estate office has established suitable and sustainable sewage treatment plants with the design features to completely treat the wastewater generated in the university.

- 2 nos. of Sewage treatment plants of 250KLD capacity are available, one for Men's Hostel and one for Institute campus.
- The sewage generated in the University is generally characterized by the presence of organic, inorganic and suspended solids.
- The chain of treatment is aimed to remove such pollutants from the wastewater so that it can be effectively reused.
- The treatment system consists of preliminary treatment system followed by the primary and secondary treatment process.
- The preliminary treatment system aims the removal of floating bodies and grits from the waste water. Bar Screens are used in the treatment plant to remove materials like plastics and other floating objects.
- The grit chambers are used to remove sand and silts from the wastewater.
- The primary sedimentation tank helps in the removal of the suspended solids.
- The biological treatment system is the secondary treatment process used in the removal of organics from the wastewater
- The suspended solids are removed using the primary sedimentation tank and after this the wastewater is subjected to biological treatment to remove the organic content from the waste.
- The secondary treatment process is incorporated with ECO-BIO BLOCK so as to increase the efficiency of the treatment system.
- The Eco-Bio Bricks helps in the attachment of bacteria in the treatment system and helps in the better removal of organic content from the wastewater.
- This attached system will also helps the treatment system to handle shock loadings if there is an increase in the organic loading rate in the biological treatment system.
- The sewage treatment plant is working on the principle of attached growth aerobic system (Eco-Bio Block) followed by sand filter and carbon filter.

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- The carbon and sand filter ensures that any amount of organics that is left in the wastewater is suitably adsorbed from the wastewater and it is stored in the collection tank.
 - The entire Sewage Treatment Plant is periodically subjected to maintenance regularly.
 - The working of all the pumps and valves are checked periodically to ensure the smooth functioning of the sewage treatment plant.
 - The treated water is used for landscaping and toilet flushing purpose.
 - This helps the university to reduce its dependency of fresh water from wells for gardening.
 - The physical, chemical and biological characteristics of the treated water are tested to ensure the efficiency of the treatment systems.
 - Some of the important parameters checked include pH, solids, Chemical oxygen demand, Biochemical oxygen demand, Nitrates, chlorides etc.
 - The treated wastewater is checked periodically to ensure its quality so that it can be effectively reused for gardening and as well for the toilet flushing.

E-WASTE MANAGEMENT

- The institute takes sufficient measures to dispose the e-waste generated inside the campus properly.
- Our Institute also takes initiatives to reduce the generation of e-waste in the campus
- All obsolete electrical and electronic waste is disposed as e-waste to vendors for proper destruction without damaging the environment and certificate for such destruction and disposal are obtained.
- Electronic waste that are disposed includes
 - ❖ Old TVs, computer monitors, printers, scanners, keyboards, mouse, , Radio,, Phones, Fax ,Photocopy machines, cables from computer laboratories of various departments
 - ❖ Flip flops, memory chips, motherboard, compact discs, cartridges
 - ❖ Kitchen equipment from staff quarters and hostels like toasters, coffee makers, microwave ovens etc
 - ❖ Laboratory equipments from various departments.
 - ❖ Totally 2330kg E –waste generated is destructed every year.
- The condemned electronic equipments are handed over to the estate office on a regular basis by the departments after checking or inspection by a committee consisting of Senior Professors. Once the equipments are certified as obsolete or non

working it is condemned and handed to estate office.

- This E waste which is collected is then disposed to vendors.
- It is also ensured that the generated E wastes are not disposed along with the other solid waste generated in the campus.
- Collection of e waste separately is a sustainable approach to prevent such waste reaching the landfills and also provides an opportunity to recycle such waste.
- The e waste collected separately is handed over to the vendors for recycling or disposal.
- The company GEMS recycling PVT Limited, Neervallur Village, Kancheepuram district, Tamilnadu collects all the waste.
- Our institute has received certificate for destruction and disposal of waste from the company for reprocessing/recycling the waste without harming the environment in an eco friendly manner.
- A Standard Operating Procedure has been evolved for handling the waste disposal system.
- Awareness is also created among faculty , students and also office bearers on the usage of electronic goods, its usage and also on the ways that it has to be collected and disposed
- Electronic goods are put to optimum use; the minor repairs are set right by the supporting staff and the Laboratory non teaching faculty and the major repairs, by the professional technicians, and are reused.
- The damaged computers are used by the instructors in the practical sessions. Finally they are exchanged with the local dealers.
- UPS Batteries are recharged / repaired / exchanged by the suppliers.
- The waste compact discs are reused by civil engineering/architecture students for decoration/participation in competitions.
- Steel, Iron, Aluminum, and Wood from construction site will be sent to scrap shop and further to recycling plants.
- Steel, Iron, Aluminum, from laboratories will be sent to scrap shop and further to recycling plants.
- All the communication of the institute is through Internet within the teaching and nonteaching faculty members.
- There are hardly any floppies or CDs used for day to day operations.

FILE DESCRIPTION	DOCUMENT
Upload any additional information	<u>7.1.5.a</u>
Paste link for additional information	<u>7.1.5.b</u>

7.1.6 Rain water harvesting structures and utilization in the campus

- B.S Abdur Rahman Crescent Institute of science and technology is one of the pioneers in implementing solutions to save water.
- The institute has implemented rain water harvesting system in the campus with a strong desire to utilize the rain water at maximum extent.
- The University has taken tremendous efforts to reduce the water consumption and also to treat the wastewater generated within the campus so that it can be effectively reused for gardening and toilet flushing.
- In the forefront to save water, our institute of science and technology has initiated and executed the rainwater harvesting in the campus.
- Rainwater harvesting facility is done in all blocks to collect rainwater from the roof of all buildings.
- The harvested water is diverted to open wells in institute campus, Men’s Hostel and ladies hostel.
- The placement of rainwater facility within the campus is decided upon by considering the profile of the land so as to drain the maximum amount of water collected with ease.
- In the buildings, sufficient plumbing connections are provided to trap the rain water from the roof tops.
- Underground connections are ensured to connect the collected water from the roof top to the rainwater recharge pit.
- It was also ensured that the rainwater harvesting structures are constructed as per the norms. The recharge pit provided to collect the rain water is series of filter bed.
- This initiative took shape when the institute faced shortage of water during summer. Cost of buying water was becoming a financial burden. The only alternative to the water crisis was to use the available water more effectively.
- The features of the recharge pit are described below.
- A mesh is provided at the inlets of rain water pipes so that solid waste/debris is prevented

from entering the pit system.

- The recharge pits are of size 2m x 2m x 2m is excavated
- The recharge pit comprises different set of filter media. The filter media comprises of thick layers of boulders at the bottom followed by layers of gravels and coarse sand.
- This enables the filtration of water and also prevents the deposition of silt on the recharge pit.
- Access Manhole frames and covers are provided.
- The rain water is also stored in Underground sumps of Life Science block, Mechanical Science Block and New Staff Quarters.
- The total water consumption in the institute is 0.6 MLD,(i.e) 0.5 MLD is procured through tankers and 0.1 MLD is extracted from open wells in the campus.
- The institute has sewage treatment plants with a capacity of 250 KLD each. The treated wastewater is mainly used for horticulture purpose. In one of the blocks the treated water is used for flushing purpose through dual pipe line systems.
- The water requirement is met by treating the rain water stored in sumps using Reverse osmosis systems.
- The yields of these systems are about 45-50%.

FILE DESCRIPTION	DOCUMENT
Upload any additional information	<u>7.1.6.a</u>
Pate link for additional information	<u>7.1.6.b</u>

7.1.7 Green Practices

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

BICYCLES: BICYCLES FOR POLLUTION-FREE ENVIRONMENT

- As a step towards complete pollution-free environment in campus, 50 numbers of

bicycles are provided for use by Men's Hostel students to commute from Main gate to Hostel and to avoid two-wheelers movement inside campus.

- Bicycles are also provided for ladies hostel inmates.
- The provisions for parking the cycles are provided both in the Main gate and also in the front gates for the benefit of the students.
- More than 95% of the day scholars walk from the gate to their blocks
- Only 10% of faculty members use motored vehicles.

PUBLIC TRANSPORT:

- Our Institute is located in the arterial GST Road and is well connected from all areas of Chennai city and suburbs by public transport facilities like Suburban Train and Bus terminus. Nearest Train station is Vandalur at 1km distance and Vandalur ZOO Bus terminus is situated at the Institute gate.
- Most of the day scholars and faculty members use public transport only – either bus or train- for daily commuting.

PEDESTRIAN FRIENDLY ROADS:

- Roads inside campus are strictly prohibited for use of two-wheelers and four-wheelers except utility vehicles. The roads are fully used only for pedestrian purpose.
- All vehicles should be parked in the respective places allotted by the security and they are not allowed to enter beyond the barricade placed at the entrance of the campus, unless if there is an emergency or special case.

PLASTIC FREE CAMPUS:

- A policy is in place to convert our campus into a Plastic-free campus. Within the context of our Green campus policy we commit to ban the use of plastics, to reduce the environmental impact of waste plastics.
- Usages of plastics are avoided in the canteen by serving the food in the steel plates.

PAPERLESS OFFICE :

- Electronic documentation is maintained in 50 percent of the cases. All communications to faculty members and students are through e-mails and SMS.
- The student's attendance, faculty attendance, leave applications, continuous assessment tests results and semester end exam results are all maintained through TCS ION.

GREEN LANDSCAPING WITH TREES AND PLANTS

- The campus had 909 trees before the cyclone in December 2016. A total of 341 were trees were uprooted in the cyclone. Now the total number of trees in campus is approximately 1240 Nos.
- Organic Vegetable garden is formed in open land space in Men’s Hostel area. The entire campus is dotted with trees, plants and lawns which are kept well maintained. Green cover is around 10 %.
- Total campus built up area: 1501875 sq.ft
- Total landscape : 151654 sq.ft

The other green practices include

- Solar Power plant
- Biogas plant
- Sewage Treatment plant
- Bicycle
- E- waste Disposal
- Bio waste Disposal
- Waste Paper recycling
- Green Building Certificate
- LED Fixtures
- Air-conditioning split units of 5-star BEE rating
- BS-IV compliant vehicles for transportation
- Incinerator Machine with wet scrubber for sanitary napkin disposal.

FILE DESCRIPTION	DOCUMENT
Upload any additional information	7.1.7.a
Paste link for additional information	7.1.7.b

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years (INR in lakhs)

3.72%

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

Year	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
INR in lakhs	176	96.79	261.41	231.99	216.28	99.71

Expenditure on green initiatives and waste management excluding salary component:

181.23 lakhs average

Annual expenditure excluding salary component of the institution:

4889.32 Lakhs average

Average percentage = 3.72 %

FILE DESCRIPTION	DOCUMENT
Any additional information	7.1.8.a
Green audit report	7.1.8.b
Details of expenditure on green initiatives and waste management during the last five years (Data Template)	7.1.8.c

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

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

8) Any other similar facility (Specify)

Options:

- | | | |
|--|---|----------------|
| <ul style="list-style-type: none"> A. 7 and more of the above B. At least 6 of the above C. At least 4 of the above D. At least 2 of the above E. None of the above | } | Opt one |
|--|---|----------------|

Answer: 7 and more of the above

Differently-abled friendliness: All buildings are constructed with facility of ramps and lifts for Persons with Disabilities.

FILE DESCRIPTION	DOCUMENT
Upload any additional information	7.1.9.a
Link to photos and videos of facilities for divyangjan	7.1.9.b
Upload resources available in the institution for Divyangjan (Data Template)	7.1.9.b

Inclusion and Situatedness

7.1.10 Number of specific initiatives to address locational advantages and disadvantages during the last five years

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

Our institute is located just on the outskirts (in Vandalur) of Chennai city. Vandalur has very good connectivity by city buses and also by electric train. Industrial estates that contain a

large number of manufacturing assembly, fabrication and feeder industries are located very near the institution in places called Oragadam, Maraimalai Nagar and Mahindra City. Joint IT parks housing reputed software companies and BPO companies are also located near the institute in places called Perungalathur and Mahindra City. A good number of academic institutions -private engineering colleges, arts colleges and schools are also located at short distances from the institute.

Due to the availability of industries and institutions at places very near to B.S. Abdur Rahman Crescent Institute of Science and Technology, this institute always attracts practicing professionals from industries and IT organizations to visit and deliver expert lectures and experience - sharing sessions in large numbers. The same locational advantage in terms of availability of near-by industries and IT organizations has paved way for the institute as well as students to get plenty of internships and in-plant training opportunities. The presence of nearby industries, host of institutions around the campus in addition to easy access (through rail and road) has always enabled the institute to make use of its locational advantage by offering its large playground (with complete sports facilities), giant auditorium (second / third largest in Chennai) and class-room facilities to those industries and institutes for their sports, placement process, events and examination purposes.

Years	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Numbers	13	14	15	16	29	13

LOCATION ADVANTAGE - RELATED EFFORTS :

- ✓ Adoption of nearby villages
- ✓ MOU with nearby industrial estates
- ✓ Qualification up gradation programme for nearby industries (FORD employees)
- ✓ Training programme conducted for nearby organizations/industries (training programme for Police Training Academy)
- ✓ Offering professional bodies certification (to students like CALLI for B.Com students, student's pilot license, etc.)
- ✓ Enabling nearby schools to conduct sports event (thereby creating awareness about our institution as well)

- ✓ Since the institute is well connected with rail and road and also located just on the border of the city outskirts, enabled the conduct of several competitive exams, exams for professional bodies, etc. every year
- ✓ Invited a large number of practicing engineers and professionals from nearby industries/ organizations for guest lectures, experienced sharing sessions, etc.
- ✓ Facilitated students internship with ease, since several industries are located nearby
- ✓ Conducted pooled campus placement due to easy access through rail and road and also location advantage (located amidst a number of surrounding institutions)
- ✓ Peer institutional learning due to location of large number of nearby peer institutions.
- ✓ Paper presentations by faculty and deputation as resource persons for conferences / workshops due to several technical institutions located nearby.

INITIATIVES TO ADDRESS LOCATIONAL DISADVANTAGES

Locational Disadvantages

- ❖ Located in semi-urban area on the outskirts.
- ❖ Located in a non-central area of the city / located in one corner of the city outskirts
- ❖ Located at southern end of the country
- ❖ Located amidst a large number of peer institutions that give stiff competition.
- ❖ Located in a prime area that separates key directions to other parts of the city. (National Highways, State Highways, outer ring road).
- ❖ Located in a highly rocky area.

FILE DESCRIPTION	DOCUMENT
Upload any additional information	<u>7.1.10.a</u>
Number of Specific initiatives to address locational advantage and disadvantage (Data Template)	<u>7.1.10.b</u>

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

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

83

The Rotaract Club organizes various events to engage with and contribute to local community.

Initiatives taken to engage with and contribute to local community during the last five years

Years	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Numbers	12	15	22	18	16	12

- Sports for School Children
- Visit To Saranalayam (Old Age Home)
- Health Awareness Cycle Rally Programme
- Youth Science Festival
- Relief Camps
- Door To Door Campaign On Waste Management

FILE DESCRIPTION	DOCUMENT
Upload any additional information	<u>7.1.11.a</u>
Upload the report of the event	<u>7.1.11.b</u>
Details of the initiatives take to engage with the local community during the last five years (Data template)	<u>7.1.11.c</u>

Human Values and Professional Ethics

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

Yes

As faculty members of B.S. Abdur Rahman University, they are responsible for contribution and sustenance of the standards of the institution. They should comply with the relevant policies, rules, regulations, norms and standards set to guide their work. While every individual member is accountable for his/her action, as member of the University community, they are collectively accountable for upholding those standards of behavior and for compliance with all applicable rules, regulations and code of conduct.

Every faculty member should follow the code of conduct they should adopt in the discharge of their professional duties.

FILE DESCRIPTION	DOCUMENT
Upload any additional information	7.1.12.a
URL to Handbook on code of conduct for students and teachers, manuals and brochures on human values and professional ethics	7.1.12.b

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

Yes

CORE VALUES OF THE INSTITUTE

The four core values of the University are **Technical Competence, Intellectual Character, Commitment to Excellence and Community focus.**

Ø **Technical competence:** To have the right technical skills set and apply knowledge and skills to perform specific tasks within the organization.

Ø **Intellectual character:** To develop intellectual traits of mind and personality that can promote successful learning among students.

Ø **Commitment to Excellence:** To create passion and a strong sense of dedication among students, so that they strive in pursuit of success and eminence.

Ø **Community Focus:** To join hands with the common fraternity and adhere to its needs by way of sharing opinions and solving problem for its smooth function.

FILE DESCRIPTION	DOCUMENT
Upload any additional information	7.1.13.a
Provide URL of website that displays core values	7.1.13.b

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

Yes

FILE DESCRIPTION	DOCUMENT
Upload any additional information	7.1.14.a
Details of activities organized to increase consciousness about national identities and symbols(Data template)	7.1.14.b

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

Yes

The programmes offered in the various schools of the institute have incorporated courses on **Human Values and Professional Ethics** in the curriculum.

The university's vision explicitly mentions **human values, social commitment and ethics** : intellectual competence, moral uprightness, social commitment, spiritual orientation and service to society.

Some of the human values that are integrated into the curriculum are: justice, dignity of life, peace, harmony, acceptance and respect for diversity in religion, ethnicity, culture and gender, discipline and hard work, honesty and integrity of life, commitment to society, especially the less privileged, etc..

The courses offered on Human Values and Professional Ethics includes the following

Sociology, Ethics & Human Values
 Engineering Ethics
 Confidence Building and Behavioral Skill
 Career Building And People Skills

FILE DESCRIPTION	DOCUMENT
Upload any additional information	7.1.15.a
Provide link to courses on human values and professional ethics on Institutional website	7.1.15.b

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

Yes

B.S.Abdur Rahman Crescent Institute of Science and Technology functions as per professional code of prescribed / suggested by statutory bodies like UGC,AICTE and regulatory authorities like Council of Architecture, Council of Pharmacy and Law Council for different professions

Engineering Programmes, Management Program (MBA) and MCA course are approved by AICTE and UGC.

Architecture Course is approved by the Council of Architecture.

The sanctioned intake is approved by the statutory councils like COA, BCI, PCI, BOM.

The necessary approval from the appropriate statutory council is obtained to start the programmes.

Programme	Statutory Bodies
Engineering	BOM & AICTE
M.B.A & M.C.A	BOM & AICTE
Science	UGC
B.Arch, B.Des	Council of Architecture , UGC
Pharmacy	Pharmacy Council of India & UGC
B.Com. LLB & BBA LLB	Bar Council of India & UGC

School of Architecture - B.Arch

- (i) Approved by the Council of Architecture vide Letter No.CA/5/Academic-TN28, dated 11.06.2017
- (ii) Communication to UGC for approval, Lr. No. 1677-a:C1:BSAU:2011 ,dated 26.07.2011

School of Pharmacy - B.Pharm

- (i) Approved by the Pharmacy Council of India vide Letter No. 32-1292/2017-PCI/42261-63, dated 02.08.2017
- (ii) Communication to UGC for approval, Lr. No.01:C1:BSAU:2017 dated 13.04.2017.

School of Law- B.Com. LLB & BBA LLB

- (i) Approved by Bar Council of India vide Lr No. BCI:D:1025/2017 (LE/Std.17/18/ 19.6.2017) dated 07.07.2017
- (ii) Communication to UGC for approval, Lr. No.745:C1:BSAU:2017 dated 21.04.2017

School of Life Sciences

- (i) Communication to UGC for approval, Lr. No. 1904:C1:BSAU:2016 dated 30.07.2016

School of Social Sciences & Humanities - B.Com

- (i) Communication to UGC for approval, Lr. No. 1695:C1:BSAU:2017 dated 18.07.2017

FILE DESCRIPTION	DOCUMENT
Upload any additional information	7.1.16.a
URL of supporting documents to prove institution functions as per professional code:	7.1.16.b

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

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

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Years	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Numbers	15	20	22	21	25	15

FILE DESCRIPTION	DOCUMENT
Upload any additional information	7.1.17.a
List of activities conducted for promotion of universal value (Data template)	7.1.17.b

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

B.S.Abdur Rahman Crescent Institute of Technology, faculty and students organizes programmes to celebrate national festivals and birth / death anniversaries of the great Indian personalities every year.

Events like tree plantation, environmental consciousness and cleanliness and talks by eminent personalities are organized as part of the celebrations.

- The Engineering Community across India celebrates **Engineers Day** on 15th September every year as a tribute to the greatest Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya. "Role of Engineers in a developing India" is the theme of Engineers Day 2017. Engineer's Day was celebrated in our Institute by the Department of Civil Engineering. Guest lecture on "Modern Construction Materials" by Mr V Ramanathan, Deputy General Manager, Dalmia Cements, Chennai was organized as part of Engineers Day celebration on 17-9-2018.
- APJ Abdul Kalam Innovation centre was established in our Institute on 15th October 2015, to commemorate **the birthday of our founder, Alhaj B.S. Abdur Rahman and our former president, Dr. A.P.J. Abdul Kalam** to cater to the innovative ideas of the students, scholars and faculties of our Institution.
- **Teacher's Day** is a special day celebrated in memory of Dr. Sarvepalli Radhakrishnan, and the staff club included activities to honor the staff for their special contributions. On September 05, 2018, the staff club organized the tree planting event followed by lunch as part of teacher's day celebration

Independence Day was celebrated in a grand manner at the University premises on 15th August 2017. The students and faculty members of the University and Crescent School participated in the celebration.

- A pledge taking ceremony was organized on 9th August 2017. A copy of the 'New India Pledge' was circulated to all faculty members. The faculty members handling classes at 09:30 a.m. facilitated pledge taking in the class by reading out the pledge and the students repeated the same. Other officials and non-teaching faculty members also participated in the pledge taking ceremony in their place of work at the same time.
- The initiative taken by the Government of India has certainly helped the students and teachers, to look back with respect and admiration the courage of the great freedom fighters and remember their selfless sacrifice for the wellbeing of the nation. The celebrations related to the Independence Day and Quit India Movement have reminded

the Indian citizens about the value of freedom and has created an awakening in the minds to protect the country in the present and future too.

- Pongal, the festival of the farmers is celebrated all over South India. This festival is celebrated as a thanksgiving ceremony for the year's harvest. Colourful flower rangoli designs, beautiful pongal pots, fruits and sugarcane added to the celebration of the festival. The celebration came to an end with the distribution of sugarcane to all the staff members.

Some of the functions celebrated in our campus includes

NATIONAL FESTIVALS

Republic Day
Independence Day.
Deepavali
Pongal
Ramzan

BIRTH / DEATH ANNIVERSARIES

Gandhi Jayanthi
Teachers day
Engineers Day
Youth Awakening Day
Quit India Movement

7.1.19 B.S.Abdur Rahman Crescent Institute of Technology maintains complete transparency in its financial, academic, administrative & auxiliary functions.

Financial Transparency :

- The fee structure and admission procedure is available for the public on the university website, which helps them while choosing the branch.
- Institute appoints internal & external auditors every year.
- Audited statements regarding financial activities are circulated to all the concerned members of the Governing body.
- The budget for the department originates from the laboratory level and the department heads consolidate the budgetary requirements which are approved by the Board of Management.

Finance officer and the Registrar ensure accountability on financial issues

Academic transparency

- Faculty members are given powers to take independent decisions regarding all academic matters right from curriculum design, syllabus formation and Teaching – Learning and evaluation processes.
- The Board of studies, The Academic council and the Dean (Academic Affairs) ensure proper accountability on academic issues.
- All the matters discussed in the Academic meetings, are circulated to all the departments through the Minutes of Meeting
- The University has created a portal TCS ION where the faculty members enter the attendance and marks which can be viewed by the parents and the students.
- The regulations, syllabus and curriculum are uploaded in the website
- The rules and regulations are made clear in the Students Handbook which is available online.

Administrative transparency

- Governing body members are from Board of Management and include members from Academic, Industrial and service sectors.
- The Governing body lays down all important policies for the effective management of the institution.
- It prepares a strategic plan of action for the institutional growth, sets the aims and agenda of the institution, and identifies the financial, physical and staffing strategies.
- Recruitment of faculty are practiced as per the guidelines are given by higher education department, University & UGC.
- Vacancies are advertised in various newspapers and website.
- On the date and time stipulated the candidates who respond to call will be screened by an expert committee consisting of the representative from the Management, Vice Chancellor, Registrar, Dean, HOD concerned and the subject experts.
- The rules regulating the services and conduct of the staff members are uploaded on the Institute website.
- The faculty appraisal system and internal promotion policies are transparent
- Internal Academic & Administrative Audit (AAA) is conducted every year.

Auxiliary functions transparency

- Information pertaining to the Deemed to be university notification and accreditation are available in the university website
- In case of disciplinary issues, committees are formed and concerned individuals are given ample opportunities to state their version of the issue and impartial investigations are made.
- Details related to events of the university and achievements are also updated periodically.
- All the decisions taken by the statutory bodies pertaining to various items are informed to all the departments/ faculty through the necessary minutes of meeting.
- All the functions relating to purchase, library, sports, mess, hostel are uploaded on the Institute website.
- Admissions of the students are made through open entrance test.

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC format given in next page)

BEST PRACTICE – 1

PROJECT BASED LEARNING

Project based learning process introduced in two courses of each in all programmes

i) Objectives of the Practice

- To enhance the learning skill of the students.
- To impart a deeper understanding of the course.
- To make the students to understand the course content through application oriented projects.
- To explore real time applications and challenges
- To develop skills among the students to work as teams
- To provide opportunities to enhance the knowledge through collaborative study.
- To understand the latest technologies that are practiced in the industries /field that is related to the course.

- To impart skill to address the real time problems by adopting a systematic approach and to derive a realistic solution.

ii) The Context

- Through project based learning, students will improve their attitudes towards learning and exhibit their individual talents.
- They understand theoretical information through practical work.
- Students can develop their critical thinking on problem solving skills.
- Project based learning leads to “Self Learning” system instead of “Educator Teaching” system.
- Students are motivated to obtain hands on experience and develop an interest to learn more theoretical of a course.
- To enhance the team spirit.
- Project based learning leads to the development of lab scale models by students as a part to explain the current scenario of their project or they can also develop models to forecast a suitable solution to that is relevant to their project.
- Project based learning provides an opportunity for the students to visit various fields/industries pertaining to their project and also to interact with the experts in the field of interest .

iii) The Practice

- The teacher gives theoretical knowledge about the course on which the students can do projects with practical applications.
- The Students are instructed to form a team to do the project based learning
- The Students then plan on their project after understanding on the aspects of the course.
- The project carried out is a real time project and hence it may require field/industrial visit, interaction with experts, collection of samples, interaction with stake holders etc.
- Students after their initial field visit, perform the relevant study in the laboratories.
- The study conducted by the students may involve testing or validation of samples collected from the real time projects etc.
- The students work in team and execute the various aspects involved in the project

- Initial step involves in the design of the project.
- If any model is developed then, subsequently the Procurement of components is carried out by the team of students.
- After material purchase, the students will involve themselves in fabrication and assembling of the components to complete their work.
- The students finally assemble all the components.
- The final stage of the model development involves in the Testing and demonstration of the product developed.
- This involves a suitable validation of results with careful scrutiny of errors.
- The next step involved in the project based learning is the preparation of the project report.
- The Project report should contain the Abstract, followed by the Introduction. In the Introduction chapter the clear statement on problem definition should be dealt with.
- A detailed explanation of materials procured and steps involve in the fabrication of the product if any should be mentioned in the Materials and Methods chapter.
- The Results obtained from the various test conducted in the lab and significance of the results should also be discussed in detail.
- Finally recommendations for the future scope are also added in the project report.
- After the project book preparation , the students need to present their work in team
- During the presentation each student should make a presentation of minimum five minutes and explain Clearly their contribution in their project and overall significance of the project.
- Evaluation of the project is done based on their work done, presentation of the project and due weightage is also given for the final project book submitted by the students.

iv) Evidence of Success

- Project based teaching learning process implemented for two courses in all B.Tech Programmes in the odd and even semesters.
- Meeting was conducted in the beginning stage and also in final stage with concerned Heads.
- Final Review meeting was conducted and all Heads presented the outcome of the

Projects implemented by the students for several courses in their programmes.

- The students made a power point presentation of their work done in the admist of fellow class students. Students in detail explained their project work carried out and also demonstrated the working models if they have any.
- Several such presentation also helped the students to get exposed to several real time projects and their significance.
- The project was evaluated by the concerned staff members and Deans of the Schools.
- It was observed that the Project based teaching system for several courses were successfully carried out by the students.
- Project based learning also helped the students to select a suitable projects in their higher semesters especially in VII and VIII semesters. It was also witnessed that the students have also developed the skill of presentation which included a good communication skill and also presentation skill.

v) Problems Encountered and Resources Required

- Students require allocation more time to do their project work in the laboratories.
- University should allocate budget to support financially for procuring components for the projects.
- Time management by students is one of the problems encountered by the students.
- Assessment methodology to evaluate the project to be enhanced.
- Seeking permissions to visit industries, concerns on safety of the students who are getting involved in real time projects delays the project duration.
- Project scheduling to be enhanced to avoid delay in completing the projects.
- Resource materials should be made available in the department library for the benefit of students.
- Monitoring to be strengthened to identifying the level of the project as per the syllabus of the course.
- The contribution of each student towards the execution of the project need to evaluate and their involvement to be assessed by frequent monitoring.

BEST PRACTICE - 2

RESEARCH INCENTIVE SCHEME

Research incentive scheme for carrying out notable research, publications and for mobilizing grants under research projects.

i) Objectives of the Practice

The main objectives are

- To motivate faculty members to concentrate on research related activities, so as to publish articles in reputed refereed international and national journals with impact factor
- To pursue faculty to write books, monographs for publication by international and national publishers of high repute
- To establish collaborative research projects with their counterparts in reputed national and international Universities
- To encourage faculty to submit proposals and secure funded projects from various funding agencies in India and abroad and also to obtain patents
- To undertake consultancy projects sponsored by government and nongovernmental organizations

ii) The Context

- The faculty was encouraged to carry out research in addition to their teaching and administrative responsibilities. Care should be taken so as not to bring down the quality of the teaching learning process
- A system by which uniform credit points will be assigned for various research activities was conceived and credit ratings were decided. The corresponding monetary incentives were finalized by the Research advisory board.
- The University had come forward to bear the additional financial commitment with the sole objective of promoting quality research.
- The university introduced research innovative schemes to encourage quality

research and to increase number of research publications

- The research scholars and associated faculty were given freedom to approach the research board of the university to seek advice on any issues related to the research and facilities.
- The faculty was also encouraged to disseminate the research findings through publications

iii) **The Practice**

- This research incentive was for all the faculty of the University
- The Calendar year is the period for calculating the credits earned by a faculty member that is, from 1st January to the 31st December of the year.
- At the end of every calendar year, the total credits earned by a faculty member will be calculated based upon the evidence produced and the incentive to the faculty member will be arrived at and disbursed. For each credit earned, a sum of Rs.30,000/- (Rupees Thirty Thousand Only) will be awarded. For fractional credits, the amount of Rs.30, 000/- will be proportionately awarded.
- If more than one faculty member involved in paper publication, research and consultancy project, the amount will be shared by them. The Principal Investigator / author should indicate in the claim the share between the Principal author and co – author(s). If an author from other institute or college is involved, he will not be considered for the award.
- It is the responsibility of the faculty member to produce evidence of having published paper in the refereed journal and the impact factor of the journal. He has to produce a printed copy of the SCOPUS or other evidence and the HOD should attest the same.
- A claim form will be prescribed and the faculty member is expected to submit the same duly filled and attaching copies of evidence duly countersigned by the HOD and Dean of the school.
- After checking the claim and approval by the Vice Chancellor, the office of Registrar will claim and disburse the amount following the usual procedure.
- Credit earned under one category will not be taken into account for another category
- The criteria and modalities related to scheme will be amended then and there by the Institution
- Faculty members may obtain patents for their original contribution in the form of product or innovation from International and National agencies.

- Faculty members are expected to submit proposals for research grants from funding agencies. These projects may involve modernization of laboratories, acquiring of equipment required specific to the research study or conducting of surveys etc. The credit earned will be linked to the total amount of research grant sanctioned by agency.
- A policy on the research incentive scheme clearly indicating the rules and regulation related to this scheme has been notified and uploaded in the website

iv) Evidence of Success

- There is a constant increase in the number of faculty members who were awarded with the research incentive award.
- An amount of Rs, 31.54 Lakhs has been awarded to faculty members in the past years to promote research
- The progress made in the research front is commendable. The Scopus H-index of this Institution is currently 41, which has increased from 11 in the year 2008.
- The average citation index is 5.667.
- More than 3000 research publications have been made in the refereed journals and conference proceedings during the last six years
- More than 14 funded research projects in the tune of Rs.411 Lakhs are currently being investigated by the faculty members.
- Already funded projects to the tune of Rs. 325.91 Lakhs sponsored by the funding agencies like DST, DRDO, SERB UGC-DAE, DBT etc have been successfully completed.
- The total number of publications from the university is around 4580 in which 1442 are Scopus indexed, 665 are indexed in Web of Science and 229 are ion IEEE journals.
- More than 20 MOUs have been entered with R&D organizations, Universities and industries to carry out collaborative research

v) Problems Encountered and Resources Required

- The funds required to give away the incentives was borne by the management
- Requirement of additional research infrastructure in the laboratories to carry out research and related activities
- Consideration of travel grants and other facilities for faculty for research activities
- Providing exclusive budget grant for research activities in all departments.

- Delay in sanction of projects submitted to funding agencies.
- Time delay in accepting of paper publication in some refereed journals
- More faculty to be motivated on research aspects and the project work done by UG and PG students should also encouraged for converting as reach publications.
- Some of the selected UG and PG projects can also be awarded with incentive provided there is a good quality of research work has been done.
- Providing incentive will be a motivation for the young faculty to peruse research and contribute to the growth of the university.

File Description	Document
Link for any additional information	7.2.1.a
Upload any additional information	7.2.1.b

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

OUR VISION

B.S. Abdur Rahman Crescent Institute of Science and Technology aspires **to be a leader in Education, Training and Research** in multidisciplinary areas of importance and to play a vital role in the Socio-Economic progress of the Country in a sustainable manner. B.S. Abdur Rahman Crescent Institute of Science and Technology aims to be research-intensive institution, which is in alignment with our vision.

VISION AND MISSION OF RESEARCH DIVISION OF OUR INSTITUTE

VISION

B.S.Abdur Rahman Crescent Institute of Science and Technology strives to be a “Research Intensive Institution” through various quality enhancement and sustainable initiatives

MISSION

- To offer Ph.D programme in all the Departments of the Institution
- To offer BSA Research Fellowships in all the departments to attract young talents
- To conduct periodical review meetings for research scholars to ensure quality

- To disseminate the research findings through publications
- To introduce innovative schemes to encourage quality research and to increase number of research publications
- To introduce a conducive ambience so as to bring in a research culture.

To excel in research the following measures are implemented

- Planning, promoting and facilitating leading-edge research, including interdisciplinary and collaborative research, in the thrust areas related to the goals of our B.S Abdur Rahman Crescent Institute of Science & Technology.
- Associating, developing and providing sufficient technical support for a group / individual of innovative researchers to enhance research activity at the Institution.
- Increasing internal and external research opportunities for faculty and graduate students.
- Transferring knowledge to Society through outreach programmes.
- Institute provide policy guidelines and direction for the growth and development of research activities.
- The policy establishes the research ecosystem and framework within which academic staff, postgraduate research scholars, undergraduate research students, organizations and research institutional partners to conduct research.
- R&D Council is constituted with experts for each school.
- R&D council suggest measures for improving existing infrastructural facilities for enhancing research ambience.

To encourage research among faculty and students the following measures are carried out

- Establishment of Centre's of excellence like Innovation and Incubation Centre, Centre for Energy Studies and Research, Nano technology centre
- Centralized Laboratory for research with sophisticated instruments
- Identification of research oriented faculty.
- Research Incentive Scheme for faculty.
-

The primary objective of the proposed incentive scheme is to motivate the faculty members of our Institution to undertake quality research, consultancy and other related activities.

SCOPE OF THE SCHEME

This scheme covers all faculty members of all Departments of the B.S Abdur Rahman Crescent Institute of Science and Technology. The scope of the scheme envisages in particular

- To motivate faculty members to concentrate on research related activities in addition to the teaching so as to publish articles in reputed refereed international and national journals with impact factor.
- to pursue efforts to write books, monographs for publication by International and National publishers of repute.
- to evince interest among the members of faculty so that they take efforts to establish collaborative research projects with their counterparts in reputed foreign Universities.
- to encourage the faculty to submit proposals and secure funded research projects from various funding agencies in India and abroad.
- to undertake consultancy projects sponsored by both the Government and Private Industrial and other organizations.
- to encourage creativity in the minds of faculty, so that they make original contributions by way of products, concepts etc. and obtain patents.

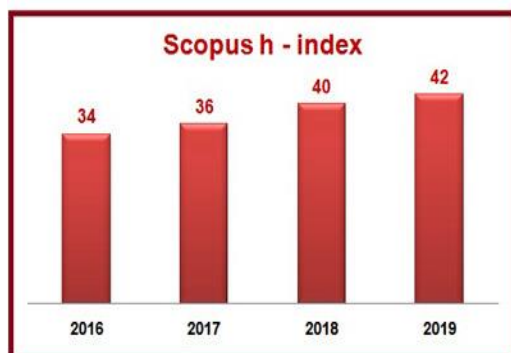
There is a constant increase in the number of faculty members who were awarded with the research incentive award. An amount of Rs, 31.54 Lakhs has been awarded to faculty members in the past years to promote research.

- Institute allocate research fund for all departments to spend for consumables, non-consumables and R&D.
- Financial support for attending Conferences
- Institute Research fellowships
- Earn while you learn scheme.
- Excellent research facilities
- Laboratories open 24 x 7
- Collaborative research with universities abroad.
- Institute recognizes the contribution made by members of staff undertaking consultancy.

- Expertise and support from financial and legal service, with respect to patenting and other related issues.
- Institute has signed MOUs with national and international organizations in order to promote advanced in different frontier areas
- Support faculty in research by conducting programmes on
 - Workshop on Strategies for innovative and quality research
 - Seminar on Turnitin Plagiarism software
 - Workshop on Writing quality research articles, project proposal and patents.
- Library has over 17,000 e journals including IEEE, ASME, ASCE, Springer Elseiver, Emerald, PROQUEST etc and open access journals which can be remotely accesses from anywhere .

OUTCOME OF RESEARCH

- The progress made in the research front is commendable. The Scopus H-index of this Institution is currently 42, which has increased from 11 in the year 2008. The average citation index is 5.667. The total research publications have been made in the refereed journals and conference proceedings is 4911.



Citation Details	
Total Number of Research Publications	: 4,911
Total number of Citations	: 8,580
Average Citation index	: 5.667
Average Impact factor	: 1.541
No. of Papers with more than 10 SCOPUS citations	: 220
Research paper with highest SCOPUS citations	: 210
Scopus h-index	: 42

- More than 14 funded research projects in the tune of Rs.411 Lakhs are currently being investigated by the faculty members. Already funded projects to the tune of Rs. 325.91 Lakhs sponsored by the funding agencies like DST, DRDO, SERB UGC-DAE, DBT etc have been successfully completed.
- All the departments in various schools are offering Ph.D programmes. Out of 358 faculty members, 169 are Ph D qualifications and 103 are pursuing Ph. D in BS Abdur Rahman Crescent Institute of Science and Technology and other Universities. At

present 522 research scholars are on roll and 66 scholars have been already awarded PhD degree. With an intention to promote quality research, the institution offers JRF and SRF fellowships to 66 research scholars and another 20 scholars are securing fellowships from government funding agencies such as CSIR,DST etc.

- A Centre for sponsored research and consultancy has been created in B.S.Abdur Rahman Crescent Institute of Science and Technology for the promotion of sponsored research, industrial consultancy and patent filing.
 - There are 37 MoUs signed with industries to strengthen the research

File Description	Document
Link for additional information	7.3.1.a
Upload any additional information	7.3.1.b