B.S.ABDUR RAHMAN UNIVERSITY

THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC

2015-2016

INTERNAL QUALITY ASSURANCE CELL

B.S.ABDUR RAHMAN INSTITUTE OF SCIENCE AND TECHNOLOGY

Vandalur, Chennai – 600 048, India
Accreditated by NAAC with 'A' Grade
(Estb. u/s.3 of the UGC Act, 1956)
www.bsauniv.ac.in

**B.S.ABDUR RAHMAN
UNIVERSITY**
B.S.ABDUR RAHMAN INSTITUTE OF SCIENCE & TECHNOLOGY
(Estd.u/s 3 of the UGC Act, 1956)
A Muslim Minority Institution
(Formerly B.S.ABDUR RAHMAN CRESCENT ENGINEERING COLLEGE)
Accredited with "A" Grade by NAAC

Dr. V.M. PERIASAMY
Vice-Chancellor

Lr. No. 6:VC: BSAU : 2016   7ᵗʰ June, 2016

To

The Director
National Assessment and Accreditation Council,
P.O. Box No. 1075,
Nagarbhavi,
Bangalore – 560 072.

Sir,

      Sub: Submission of Annual Quality Assurance Report (AQAR)
             for the year 2015-16 – Cycle I – Reg.

      Ref: Track ID: TNUNGN11169
                    ******

     I am pleased to submit the Annual Quality Assurance Report (AQAR) for the year 2015-16. The AQAR has been uploaded on our website on 7ᵗʰ June 2016.

     With best wishes,

                              Yours Sincerely,

                              (Dr. V.M. PERIASAMY)
                              Vice Chancellor

Encl: Annual Quality Assurance Report (AQAR) 2015-16.
       (TNUNGN11169 - B.S. Abdur Rahman Institute of Science & Technology,
       Vandalur- Chennai.docx)

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The Annual Quality Assurance Report (AQAR) of the IQAC

Part – A

1. Details of the Institution

1.1 Name of the Institution

> **B.S. Abdur Rahman Institute of Science & Technology**

1.2 Address Line 1

> Seethakathi Estate

Address Line 2

> GST Road, Vandalur

City/Town

> Chennai

State

> Tamilnadu

Pin Code

> 600 048

Institution e-mail address

> bsar@bsauniv.ac.in

Contact Nos.

> + 44 - 22750005, 22750202, 22750006, 22751347

Name of the Head of the Institution:

> Dr. V.M. PERIASAMY

Tel. No. with STD Code:

> + 44 - 22751347, 48, 50, 75

Mobile:

> 9444116550

Name of the IQAC Co-ordinator: Dr. T.R. RANGASWAMY

Mobile: 9444450072

IQAC e-mail address: dean_acad@bsauniv.ac.in

1.3 **NAAC Track ID** *(For ex. MHCOGN 18879)* TNUNGN 11169

1.4 **NAAC Executive Committee No. & Date:** EC(SC)/ 01A&A/ 080 dated 05.05.2014
   (For Example EC/32/A&A/143 dated 3-5-2004.
   This EC no. is available in the right corner- bottom
   of your institution's Accreditation Certificate)

1.5 Website address: www.bsauniv.ac.in

Web-link of the AQAR: www.bsauniv.ac.in/NAAC/AQAR2015-16.DOC

For ex. http://www.ladykeanecollege.edu.in/AQAR2012-13.doc

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	A	3.08	2014	5 years
2	2nd Cycle	-	-	-	-
3	3rd Cycle	-	-	-	-
4	4th Cycle	-	-	-	-

1.7 Date of Establishment of IQAC: DD/MM/YYYY 02.09.2013

1.8 AQAR for the year *(for example 2010-11)* 2015 – 2016

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((*for example AQAR 2010-11submitted to NAAC on 12-10-2011)*

    i. AQAR 2014 – 15 submitted to NAAC on 10.06.2015
   ii. AQAR_____ _____ (DD/MM/YYYY)
  iii. AQAR_____ _____ (DD/MM/YYYY)
  iv. AQAR_____ _____ (DD/MM/YYYY)

1.10 Institutional Status

   University   State ☐ Central ☐ Deemed ✓ Private ☐

   Affiliated College   Yes ☐   No ✓

   Constituent College   Yes ☐   No ✓

   Autonomous college of UGC   Yes ☐   No ✓

   Regulatory Agency approved Institution   Yes ✓   No ☐

  (eg. AICTE, BCI, MCI, PCI, NCI)

   Type of Institution   Co-education ✓ Men ☐ Women ☐

                   Urban ✓ Rural ☐ Tribal ☐

   Financial Status   Grant-in-aid ☐   UGC 2(f) ☐   UGC 12B ☐

     Grant-in-aid + Self Financing ☐ Totally Self-financing ✓

1.11 Type of Faculty/Programme

   Arts ☐   Science ✓ Commerce ☐ Law ☐   PEI (Phys Edu) ☐

   TEI (Edu) ☐ Engineering ✓ Health Science ☐ Management ✓

   Others (Specify)   . Nil

1.12 Name of the Affiliating University *(for the Colleges)*

Not Applicable

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University   -

University with Potential for Excellence   -   UGC-CPE   -

DST Star Scheme   -   UGC-CE   -

UGC-Special Assistance Programme   -   DST-FIST   -

UGC-Innovative PG programmes   -   Any other (*Specify*)   Minority

UGC-COP Programmes   -

2. IQAC Composition and Activities

2.1 No. of Teachers   13

2.2 No. of Administrative/Technical staff   6

2.3 No. of students   Nil

2.4 No. of Management representatives   1

2.5 No. of Alumni   Nil

2. 6 No. of any other stakeholder and

community representatives   2

2.7 No. of Employers/ Industrialists   Nil

2.8 No. of other External Experts   Nil

2.9 Total No. of members   22

2.10 No. of IQAC meetings held   6

2.11 No. of meetings with various stakeholders: No. 5   Faculty 2

Non-Teaching Staff Students 1   Alumni 1   Others 1

2.12 Has IQAC received any funding from UGC during the year?   Yes   No   ✓

If yes, mention the amount   -

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.   International   National   State   Institution Level   1

(ii) Themes   Programme Educational Objectives and Outcomes

2.14 Significant Activities and contributions made by IQAC

- Introduced Project Based Teaching Learning Process
- Conducted workshop on "Programme Educational Objectives and Outcomes"
- Peer assisted learning introduced

2.15 Plan of Action by IQAC/Outcome

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 *

Plan of Action	Achievements
• Revisiting of Programme objectives and outcome	• Workshop conducted on 3.2.2016 and several meetings were conducted with concerned HODs / Deans and revision was carried out.
• Quality management through result analysis	• Root cause analysis for the poor performance semester end examination was carried and control actions were initiated.
• Establish Innovation Centre to motivate students to generate innovative ideas	• A.P.J. Abdul Kalam Innovation Centre was established on 15th October 2015 for motivating the students to generate innovative ideas. Several competitive programmes were carried out. Many students were participated with innovative ideas from various departments.
• Enhancing Teaching Learning Process	• Introduced Project Based Teaching Learning Process.
• Enhancement of Industry Institute Collaboration	• MoUs signed with National and International organization • Industrial training to students initiated .Industry Institute meeting organized.
• To carry out minor modification of syllabus of certain courses in thrust areas	• Minor modification was carried out in the some of the courses in several programmes
• Peer assisted learning	• Peer assisted learning system was established in all department. • Best students were assisting their classmates for various courses under the supervision of staff members after University working hours. • Peer assisted learning system also extended in the hostel during study hours.

 * *Attach the Academic Calendar of the year as Annexure.*

Please See Annexure – I

2.15 Whether the AQAR was placed in statutory body   Yes ✓   No ☐

Management ☐   Syndicate ☐   Any other body ✓

Provide the details of the action taken

AQAR 2014-15 was approved in the eighth meeting of academic council held in July 2015 (vide agenda item No. 8.3.2).

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	18	-		-
PG	26	1 (M.Sc. Sonology)		-
UG	14		All our programmes are self financing programmes	-
PG Diploma	1	4 (Life Science)		-
Advanced Diploma	-	-		-
Diploma	1	-		-
Certificate	1	-		4 (CA, IS, EIE)
Others	-	-		-
Total	61	6	-	4

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

√

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

CBCS

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	39
Trimester	1
Annual	0

1.3 Feedback from stakeholders*   Alumni ✓   Parents ✓   Employers ✓   Students ✓
 (On all aspects)

Mode of feedback   :   Online ✓   Manual ✓   Co-operating schools (for PEI) -

Please provide an analysis of the feedback in the Annexure (Please see Annexure –II**)*

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

Yes

Minor revision of syllabus in some courses of all UG & PG programmes was carried out. Inclusion of case studies, design, safety, fire hazards, NSS etc.

Curriculum and syllabi for M.Arch programme was prepared in consultation with experts and practicing architects. The same was sent to Council of Architecture for approval.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

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1. Dr. A.P.J Abdul Kalam Innovation Centre (BSAU)
2. Interdisciplinary Centre of Excellence on Molecular Diagnosis (Life Science)

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
370	252	28	61	29

2.2 No. of permanent faculty with Ph.D.   132

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
32	-	-	-	1	-	4	-	37	-

2.4 No. of Guest and Visiting faculty and Temporary faculty   -   9   -

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	105	100	34
Presented papers	120	97	-
Resource Persons	7	18	23

2.6 Innovative processes adopted by the institution in Teaching and Learning:

• Project based learning • Peer Assisted learning • Concept based instruction • Outcome based instruction • Activity based learning	• Focused group discussion • Live case study • Role Play • Video based learning • Experimental learning • Learning through QEEE

2.7 Total No. of actual teaching days during this academic year

> 180

2.8 Examination/ Evaluation reform initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

- Online BSAUEEE Engineering Entrance Examination procedure implemented for the admission of students for the Engineering programmes.
- All Engineering programmes question papers consists of multiple choice question, fundamental and analysis question and application questions.
- Setting of two different question papers for a course is mandatory. Either one will be chosen by the Controller of Examinations.
- External Academic Audit was conducted at department level to ensure the question paper standard and evaluation of answer papers by expert members from leading institutions like Anna University, IIT Madras etc.
- Department Academic Audit was conducted to ensure the standard of question paper and valuation of answer scripts by senior faculty of the concerned department.
- Multiple components like Assignment, Seminar, Model quiz etc. were the components for internal assessment.
- Every theory course in the B.Tech program shall have a total of four assessments during a semester. The weightage for the first 3 CAT is 45% and for the 4th assessment (semester end examination) is 50%. The weightage given for attendance is 5%.
- Appearing for semester end examination for each course is mandatory and a student should secure a minimum of 40% marks in each course in semester end examination for the successful completion of the course.
- Every practical course will have 60% weightage for continuous assessment and 40% for semester end examination. However, a student should have secured a minimum of 50% marks in the semester end practical examination.

2.9 No. of faculty members involved in curriculum restructuring/ revision/ syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

123	147	113

2.10 Average percentage of attendance of students

> 85%

2.11 Course/Programme wise
distribution of pass percentage:

Title of the programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.Tech. Civil Engg.	134	7.5	37.3	37.3	-	82.09
B.Tech. Mech. Engg.	206	9.7	52	24.75	-	86.4
B.Tech. Polymer Engg.	16	-	56.25	6.25	-	62.5
B.Tech. EEE	60	10	35	38	-	83
B.Tech. ECE	193	13.5	56	17.6	-	87.1
B.Tech. E&IE	49	2	16	19	-	75.51
B.Tech. CSE	128	20	67	25	-	87.5
B.Tech. IT	64	6.25	54.68	23.43	-	84.37
B.Tech. Aerospace Engg.	31	13	45	9.6	-	67.74
B.A. Islamic Studies	30	10	70	16.66	-	96.66
B. Arch.	36	-	13	17	-	83.33
M.B.A	79	17	84	16	-	100
M.C.A	80	15	49	12	--	96.25
M.Tech. Structural Engineering	36	30.56	63.89	5.56	-	100
M.Tech. Construction Engg. & Project Management	21	19	71.42	9.52	-	100
M.Tech. CAD/CAM	7	28.5	43.00	28.5	-	100
M.Tech. Manufacturing Engineering	13	15	70	15	-	100
M.Tech. Power Systems Engineering	20	20	65	5	-	90
M.Tech. Power Electronics & Drives	8	38	50	-	-	88
M.Tech. Communication Systems	24	29	71			100
M.Tech. VLSI	27	22.2	70.4	7.4		100
M.Tech. Electronics & Instrumentation Engg.	11	9	91	-	-	100
M.Tech. Computer Science & Engg.	24	33	67	0	-	100
M.Tech. Software Engineering	18	28	72	0	-	100
M.Tech. Network Security	13	38	62	0	-	100
M.Tech. Information Technology	13	7.69	84.62	7.69	-	100
M.Tech. Opto Electronics	13	8	85	7	-	100
M.Sc. Chemistry	4	25	75	-	-	100
M.Sc. Actuarial Science	5	40	60	0	-	100
M.Sc. Microbiology	1	-	100	-	-	100
M.Sc. Genetics	1	100	-	-	-	100
M.Sc. Physics	18	33	33	11	-	77

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

The IQAC contributes

- Scrutinize the minutes of the meeting of all class committees of all programmes and provide some steps to improve teaching learning process.

- To provide suggestions to improve the process of teaching and learning based on the analysis of the students feedback on teachers handling the courses of all programmes.

- Conduct review meeting for the project based teaching learning process for the courses and give suggestions for improvement.

- Review of programme educational objectives and outcomes.

- Offer suggestions to follow the best pedagogy for teaching and learning process based on feedback from stake holders, class committee meeting, HODs meeting, etc.

- Provides suggestion to change elective courses as per the industry requirements, thrust area, etc.

- Provides direction to do minor modification of syllabus through the feedback system and industry requirement.

- Provides direction to the Faculty Training Academy (FTA) of this institution to conduct faculty development programmes, training, workshop, etc as per the need.

- Monitors the teaching and learning process through lesson plan, course material, analysis of the continuous assessments, conduct of theory and practical courses, internal academic audit, etc.

- Analysis of end semester examination results

- Evaluate root cause analysis and action for remedy

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	15
UGC – Faculty Improvement Programme	2
HRD programmes	9
Orientation programmes	24
Faculty exchange programme	1
Staff training conducted by the university	132
Staff training conducted by other institutions	33
Summer / Winter schools, Workshops, etc.	255
Others	5

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	122	-	1	-
Technical Staff	109	-	7	-

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- In order to enforce quality academic research, it was decided that the proposed foreign examiner may preferably be chosen from a premier university and shall have minimum of 10 research publications in refereed / indexed journals as resolved in the meeting of Academic Council held on 14th July 2015 (Agenda item 8.4.1.). The academic services put in by the examiner shall also be taken in to consideration, before recommending the name of the examiner.
- The IQAC coordinating with two tier research committees to monitor and address the issues related to research. They are
    - (i) Research Advisory Committee
    - (ii) Research Board
- Provide policy guidelines and direction for the growth and enhancement of research ambience.
- Wi-fi facilities extended to cover all areas in the campus.
- Suggest measures for improving existing infrastructural facilities both for academic and sponsored research and enhancing research ambiance.
- Through research board IQAC strive to foster excellence in research and development in the university and provide advice & guidance.
- Some of the measures taken to promote research are listed below.
- An unique research incentive scheme is in place, which will enable the faculty members, to receive a cash award, at the rate of Rs. 15,000/- for every credit earned, during every academic year. The approved norms for the Research incentive scheme are available.
- University has instituted 39 Junior research fellows, 7 Senior research fellows and 5 project fellows for the full time research scholars to pursue quality research (Rs. 12,000/- per month for JRF and Rs.15,000/- per month for SRF)
- University subscribes to more than 3000 e-journals, along with back volumes for more than 15 years. (e-journals include IEEE, Science Direct, Springer, ASME, ASCE, ACM, Emerald, etc.,)
- Career growth opportunities for faculty members with Ph.D. Degree.
- Separate budget allocation for R&D to all the departments of the University.
- Essential infrastructure including Space, Machineries, Equipment, Computers, Internet Connections etc.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	16	4	29
Outlay in Rs. Lakhs	48.70	341.42	94.24	976.82

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	4	1	1
Outlay in Rs. Lakhs	-	16.48	3.90	7.15

3.4 Details on research publications

	International	National	Others
Peer Review Journals	124	14	-
Non-Peer Review Journals	26	-	-
e-Journals	17	4	-
Conference proceedings	142	88	-

3.5 Details on Impact factor of publications:

Range | 0.024 – 9.284 | Average | 1.67 | h-index | 28 | Nos. in SCOPUS | 124 |

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (Lakhs)	Received (Lakhs)
Major projects	2 to 4	DST - SERB, Ministry of Science & Tech (Biotech) ,	94.24	41.38
Minor Projects	1	IDIN (USA)	3.90	1.05
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	2	BSAU (CSE)	1.44	1.44
Students research projects *(other than compulsory by the University)*	1	BSAU	1.00	1.00
Any other(Specify)	-	-	-	-
Total	**1 to 4**		**100.58**	**46.454**

3.7 No. of books published   i) With ISBN No. | 10 | Chapters in Edited Books | 2 |

ii) Without ISBN No. | 11 |

3.8 No. of University Departments receiving funds from

UGC-SAP `-`   CAS `-`   DST-FIST `-`

DPE `-`   DBT Scheme/funds `1`

3.9 For colleges   Autonomy `-`   CPE `-`   DBT Star Scheme `-`

INSPIRE `-`   CE `-`   Any Other (specify) `-`

3.10 Revenue generated through consultancy   `8.05 Lakhs`

(Including training)

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	2	6	1	-	-
Sponsoring agencies	ICMR SERB-DST	IETE, IEEE, SECE, BSAU	BSAU	-	-

3.12 No. of faculty served as experts, chairpersons or resource persons `43`

3.13 No. of collaborations   International `12`   National `16`   Any other `-`

3.14 No. of linkages created during this year   `21`

3.15 Total budget for research for current year in lakhs:

From Funding agency `114.25`   From Management of University `142.85`

Total `257.10`

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	2
	Granted	-
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

3.17 No. of research awards/ recognitions received by faculty and research fellows
of the institute in the year

Total	International	National	State	University	Dist	College
74	8	7	2	52	1	4

3.18 No. of faculty from the Institution
who are Ph. D. Guides

124

and students registered under them

469

3.19 No. of Ph.D. awarded by faculty from the Institution   13

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF 8 + 31   SRF 2 + 5   Project Fellows 5   Any other -

3.21 No. of students Participated in NSS events:

University level   80   State level   -

National level   -   International level   -

3.22 No. of students participated in NCC events:

University level   -   State level   -

National level   -   International level   -

3.23 No. of Awards won in NSS:

University level   -   State level   -

National level   -   International level   -

3.24 No. of Awards won in NCC:

University level   -   State level   -

National level   -   International level   -

3.25 No. of Extension activities organized

University forum | 11 | College forum | - |

NCC | - | NSS | 6 | Any other | 3 |

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- NSS special camp was organised for five days from 9th to 15th March 2016 at Keerapakkam Village.
- NSS Cell of our University organized Blood Donation Camp in association with Crescent Blood Donors on 3rd November (Tuesday) 2015.
- Department of Automobile Engineering organized one day workshop on Mobility safety on 8th September 2015.
- Open House Exhibition held during 16th and 17th of October 2015 at Chennai and at Madurai during 23rd and 24th of January 2015.
- The Women Empowerment Cell, Physical education department and National Service Scheme jointly organized "Yoga training for women" on 15-16, June 2015
- The Women Empowerment Cell, Sexual harassment cell and Physical education department jointly organized "Self defence training program for women" on 7, August 2015 .
- Organized Workshop on "Three day School Teachers Workshop" from 25th Nov to 27th Nov 2015.
- Organized Workshop on "Voluntary Training on Basics of ICT for School Teachers" on 6th & 7th Jan 2016.Around 19 peoples were participated.

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	200668 (Sqm)	-	-	200668 (Sqm)
Class rooms	105	5	-	110
Laboratories	95	6	-	101
Seminar Halls	14	-	-	14
No. of important equipments purchased ($\geq$ 1-0 lakh) during the current year.	102	39	BSAU	141
Value of the equipment purchased during the year (Rs. in Lakhs)	371.185	58.44	BSAU	429.625
Others	-	-	-	-

4.2 Computerization of administration and library

> The Camp@IT system is an integrated campus management software system encompassing all the processes in the University such as Academics, Payroll, Library, Exams, etc.

4.3 Library services:

		Existing (a)		Newly added (b)		Total (a + b)	
		No.	Value	No.	Value	No.	Value
Text Books		40550	1,92,60,866	2887	16,28,708	43437	2,08,89,574
Reference Books		22,089	1,07,67,962	472	2,97,550	22561	1,10,65,512
e-Books		358	4,36,429	17000	1,07,200	17358	5,43,629
Journals		240	3,09,429	NIL	NIL	221	3,94,479
e-Journals		13251	56,84,960	NIL	NIL	13251	57,86,176
Digital Database		2 (NPTEL & CMIE Databases)	5,42,697	NIL	NIL	2	5,42,697
CD & Video		3000	3,00000	NIL	NIL	3000	3,00,000
Others (specify)	Computer systems	10,88,000		35	14,30,450	71	25,18,450
	Printers	5,000		1	19,000	2	24,000
	Photocopy Machine	2,50,000		NIL	NIL	NIL	2,50,000
	Institutional Membership						
	1. DELNET						
	2. MALIBNET						
	3. Anna University					6	
	4. British Council Division						
	5. American Consulate Library	49,500					49,500
	6. Structural Engineering Research Centre						
	7. UGC Infonet Digital Library Consortium						

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	1915	38	1 Gbps & WiFi	-	-	3	20	-
Added	380	2	-	-	-	-	-	-
Total	2295	40	1 Gbps & WiFi	-	-	3	20	-

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Organized "ICTACT youth Summit-2016" on 30th Jan 2016. More than 1000 students have participated from various colleges across Tamil Nadu.
- Organized Workshop on "PHP Programming" on 6th & 7th Jan 2016 in partnership with ICT Academy of Tamil Nadu. Around 43 people participated (9 members from various Institutions).
- Organized Workshop on "Voluntary Training on Basics of ICT" for School Teachers on 12th Jan & 13th Jan 2016. Around 22 school teachers were participated.
- B.S. Abdur Rahman University along with Computer Applications Department successfully launched live classes of MHRD's QEEE pilot programme for Engineering students for the 11 subjects during August 2015 – October 2015.
- One day work shop on "Google applications and Android Programming " held on 13th February 2015
- One day work shop on" Soft skills and Google Applications" held on 20th Feb. 2015.

4.6 Amount spent on maintenance in lakhs :

i) ICT

17.13

ii) Campus Infrastructure and facilities

568.54

iii) Equipments

62.73

iv) Others

-

Total:

648.36

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Placement and training programme were organised to all final year students by Placement and Training cell.
- Printed copies of Regulation, Curriculum and Syllabus were distributed to all students.
- Academic calendar including academic activities were prepared and printed copies were distributed to all students.
- Message about the merit scholarships to the students (Govt. and other bodies) passed on to the students through circulars.
- Awareness about higher studies in foreign countries through workshops was conducted for students by Centre for International Collaboration.
- Coordinators of NSS, YRC, Rotaract club gave awareness about the extension activities to the students.
- Importance of sports and games were explained by Physical Director.
- The Central Library organized user orientation programme to understand more about e-Journals, e-Books, etc. during various periods for the benefit of students and research scholars.
- During the class committee meetings the student members representing the entire class, shall meaningfully interact and express opinions and suggestions of the class students to improve the effectiveness of the teaching-learning process.
- To help the students in planning their courses of study and for general counselling on the academic programme, the Head of the Department of the students will attach a certain number of students to a faculty member of the department who shall function as Faculty Advisor for the students throughout their period of study. Such Faculty Advisor shall offer advice to the students on academic and personal matters, and guide the students in taking up courses for registration and enrolment every semester.

5.2 Efforts made by the institution for tracking the progression

- Progress of the students were discussed in the class committee meetings.
- The progress of the students were communication to parents by SMS after each continuous assessment test.
- Root cause analysis for the poor performance of the students were analysed.
- HODs and class advisors of the concerned department track the progress of the students.
- History card is maintained for each student to monitor the progress.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
3854	670	460	-

(b) No. of students outside the state

329

(c) No. of international students

8

Men

No	%
3768	76

Women

No	%
1222	24

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
193	45	-	1190	-	1428	159	30	1	948	1	1139

Demand ratio **3:1**   Dropout % **4.03**

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Crescent IAS and Career Guidance Academy offer coaching for Civil Services examinations as well as TNPSC examinations .
- The faculty advisors counsel the needy students based on the interest of the students. They guide them in choosing the elective courses, preparation for competitive examination, planning for higher studies, importance of NET, GATE, CAT examination.

No. of student beneficiaries

12

5.5 No. of students qualified in these examinations

NET | 1 | SET/SLET | - | GATE | 7 | CAT | - |

IAS/IPS etc | - | State PSC | - | UPSC | 1 | Others | 6 |

5.6 Details of student counselling and career guidance

The University made elaborate arrangement for student support and mentoring. For every 20 students, one faculty member is appointed as faculty advisor. The progress of the students in academics, co-curricular and extracurricular activities is guided, counselled and monitored by the faculty advisors. Faculty advisors help and support students in all aspects throughout their academic programme. The faculty advisors counsel the needy students and based on the interest of the students, they guide them in choosing the elective courses, preparation for competitive examination, planning for higher studies etc.

A separate student counselling centre with full time student counsellor is also available.

No. of students benefited | 120

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
71	It depends upon the company different kinds of eligibility criteria (Approximately 623)	469	3

5.8 Details of gender sensitization programmes

- The Women Empowerment Cell, Physical education department and National Service Scheme jointly organized "Yoga training for women" on 15-16, June 2015
- The Women Empowerment Cell, Sexual harassment cell and Physical education department jointly organized "Self defence training program for women" on 7th, August 2015
- The Women Empowerment Cell, Sexual harassment cell and Physical education department jointly   organized a Workshop on **"Mind Matters"** on **21st January 2016**.

5.9 Students Activities

5.9.1   No. of students participated in Sports, Games and other events

State/ University level | 336 | National level | 172 | International level | -

No. of students participated in cultural events

State/ University level | 170 | National level | 12 | International level | -

5.9.2   No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level | 153 | National level | 66 | International level | -

Cultural: State/ University level | 16 | National level | 1 | International level | -

5.10 Scholarships and Financial Support

	Number of students	Amount (Lakhs)
Financial support from institution	372	298.35
Financial support from government	16	2.94
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

5.11   Student organised / initiatives

Fairs   : State/ University level | 6 | National level | - | International level | - |

Exhibition: State/ University level | 2 | National level | - | International level | - |

5.12   No. of social initiatives undertaken by the students | 18 |

5.13 Major grievances of students (if any) redressed:

- Issue regarding low internal marks scored by students completed the program with arrears was addressed.
- Issue regarding the permission to write the Substitute exam for the students who did not attend the regular examination without supporting documents was addressed.

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision

B.S. Abdur Rahman Institute of Science & Technology aspires to be a leader in Education, Training and Research in Engineering, Science, Technology and Management and to play a vital role in the Socio-Economic progress of the Country

Mission
- To blossom into an internationally renowned University
- To empower the youth through quality education and to provide professional leadership
- To achieve excellence in all its endeavours to face global challenges
- To provide excellent teaching and research ambience
- To network with global Institutions of Excellence, Business, Industry and Research Organizations
- To contribute to the knowledge base through Scientific enquiry, Applied Research and Innovation

6.2 Does the Institution has a management Information System

> The Camp@IT system is an integrated campus management software system encompassing all the processes in the University such as Academics, Payroll, Library, Exams, etc.
>
> The software is providing a single unified platform from where all information is available for all routine University activities.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

- Eighth Academic Council Meeting was conducted on July 2015. Minor modification in the curriculum and syllabi of UG & PG programmes recommended by the Board of Studies of all departments were approved in the eighth ACM.
- Revision of MBA regulations was approved in the eighth academic council.
- Special elective courses were included in the curriculum for the benefit of research scholars as per the recommendation of the members of doctoral committee through the BoS of concerned department.

6.3.2 Teaching and Learning

- Project Based Teaching Learning process was introduced in two courses per semester in all programmes
- Peer Assisted Learning process introduced
- Lab experiments were updated in all lab courses
- Revision of curriculum was carried out based on the principle of Outcome Based Curriculum to strengthen the teaching learning process.
- Teaching and learning process adopted for professional knowledge, problem analyses, solutions, modern tool usage, communication skills, team work etc.

6.3.3 Examination and Evaluation

- Central valuation for the arrears and regular examinations were organized in two phases.
- Declaration of results was published within a weak.
- Two Question papers are prepared for each course to meet the outcome based education and scrutinized by the department level Academic Audit Committee.
- Answer papers of each course are screened by Departmental level Academic Audit Committee and also audited by experts from leading academic institutions like Anna University, IIT Madras, etc.
- After completion of continuous assessment and end semester examinations, marks are sent to the parents through SMS.

6.3.4   Research and Development

- In order to take the research to the grass root level, an unique "Research Forum" is established to bring in research ambience among the faculty members, research scholars and P.G. students. This gives opportunity for faculty and scholars to know the research work carried out in other departments thus enabling the promotion of interdisciplinary research.

- To emphasize the quality aspects of Research, Periodical training / a one day workshop on "Quality Assurance in Academic & Sponsored Research" was conducted on. March 2015A

- Meeting of the 24th & 25th Research Boards were held on 22.06.2015 & 12.01.2016 respectively and discussed to enhance the quality of research.

- An Industry Institute Interaction was organized on 10th October 2015 to facilitate interaction and also identify the industry needs for future research.

- Periodic review of the work of Research scholars was conducted to enhance the quality of research.

6.3.5   Library, ICT and physical infrastructure / instrumentation

Library:

- The Central Library conducted National conference on "Advancement in Library and Information Science & Technology: Challenges and Opportunities during July 10 – 11, 2015.
- Digital library has been created with 50 computers to access online resources. This will be functioning on all working days.
- A separate reading room exclusively for the PhD scholars and 15 computers were dedicated to the scholars in the room for on-line search of journal articles.
- 16142 e-Journal subscriptions for the current year were renewed.
- These e-Journals can be accessed anywhere in the world through nimbus database.
- The Central Library organized user orientation programme to understand more about e-Journals, e-Books, etc. at regular intervals for the benefit of staff, students and research scholars

ICT:

- Organized "ICTACT youth Summit-2016" on 30th Jan 2016. More than 1000 students from various colleges across Tamil Nadu participated in this summit. Mr. Abdul Qadir A. Rahman Buhari, Chairman, Board of Management delivered a lecture.
- University Data Centre has successfully conducted 20 Virtual courses of the MHRD's QEEE programme for thousand UG and PG students of our university.
- The students of Civil, EIE, ECE, IT and Polymer departments were attended 6 courses through QEEE Programme during the semester Aug 2015 to Oct 2015.
- The students of Civil, EEE, ECE, MCA, IT and Polymer departments were attended 14 courses through QEEE Programme during the semester Jan 2016 to April 2016.

INFRASTUCTURE:

- Structural work of the new building for Crescent School of Architecture is in progress.
- Initially structural work for ground plus two floor was completed
- Construction of the building for Ladies hostel(Ground + 8 floor) with 128 rooms is in progress and expected to complete by August 2016

6.3.6 Human Resource Management

- University decided to have more number of PhD holders for faculty position. Hence the university allowed all the non PhD staff members to register for PhD programme. Accordingly 213 faculty members are registered and pursuing PhD.
- Ambience was created to increase the retention ratio of the faculty members.
- To maintain smooth working atmosphere, the University created adequate facilities for both teaching and non teaching staff members .

Efforts for Professional Development of Teaching Staff

- The University permits the faculty members to acquire higher degree and encourages them to register for their Ph.D program.
- It also provides 'on duty' facilities to undergo course work and carry out research activities in industry or in other universities/research centres.
- The University provides funds to acquire necessary equipment to carry out their research.
- In the annual budget, all the departments are allocated funds separately for Research & Development. From this fund, the departments purchase equipment, specifically for the research and consultancy work.
- Faculty members are permitted to go abroad on leave to pursue their Post Doctoral Fellowship (PDF) programs for a maximum period of two years.
- Faculty members are also encouraged to undergo summer / winter training programs in the Industry / institutions.

- Faculty members are also granted sabbatical leave for assignments in Universities abroad for two years in order to get acquainted with international practices.
- Faculty members are deputed to higher learning institutions to pursue their Ph.D program in areas where this institution wants to strengthen its expertise.
- They are encouraged to publish papers in national and international journals, write text-books and obtain funded projects for which university is giving cash incentives.
- They are also encouraged to present their research papers in international conferences. The management sponsors the registration fee and 100% traveling expenditure in India and 50% travel expenditure for travel abroad.
- University provides in-house Research Grants to carryout Pilot Projects to demonstrate technical feasibilities of innovative ideas
- All the departments are encouraged to organize national and international seminars / conferences and workshops
- Faculty members are sent to faculty development programs for getting additional training. The trained faculty members are encouraged to impart training to other faculty members
- The University also has an exclusive faculty training academy which caters to the training needs of faculty
- Carrier advancement scheme and performance appraisal system are in place.

6.3.7   Faculty and Staff recruitment

- Selection of faculty members are based on the UGC Regulations 2010.
- During last the academic year 2015-16 the following positions were recruited.

  Assistant Professors – 32 Nos

  Professor   – 1 No

  Visiting Professors   – 4 Nos

  - Total faculty members as on 26th May 2016 are as follows

Total	Asst. Professors	Associate Professors	Professors	Others
370	252	28	61	29

  - Total supporting staff members as on 26th May 2016 are as follows

Total	Administrative Staff	Technical Staff
231	122	109

6.3.8   Industry Interaction / Collaboration

Industry Institute Interaction

- An Industry- Institute meet was organized on 10th October, 2015. 174 delegates from diverse organizations participated in this meet. The participants were from automobile, IT, manufacturing, civil, banking, healthcare, instrumentation, plastic, marketing and pharmaceuticals. This interaction was aimed to reduce the gap between Industry and Institute for mutual benefits.

- Dr. V. M. Periasamy, Vice Chancellor, Dr. S. Prince Arockia Doss, Director, International Collaboration, Dr. R. Raja Prabu, Dean, Academic Research, Dr. M. Murugan, Dean, School of Mechanical Sciences, Dr. S. Kaja Mohideen, Dean, School of Electrical & Communication Sciences and Dr. U. Sabura Banu, Professor, Department of Electronics and Instrumentation Engineering visited Festo Global Production Centre, Festo Controls Private Limited, Bangalore on 12th June, 2015 to study the feasibility for close interaction between FESTO and BSAU.

- Delegation from Festo Controls Private Limited, Bangalore, visited BSAU on 24th July, 2015 and again on 27th November 2015.

MoUs

The following MoUs signed in the last one year

- INDIANA UNIVERSITY PURDUE UNIVERSITY INDIANAPOLIS, IUPUI, USA: A letter of intent was exchanged on 16th March 2015
- Pentagrit Research on June 15, 2015 to initiate research collaboration in drug screening utilizing tissue chip technology.
- Thassim Beevi Abdul Kader College for Women, Kilakarai on 20th August, 2015
- Medall Medical Academy on 17th August, 2015
- Reliance Jio Infocomm Ltd on 30th Sep 2015 to enable our Institution with 4G LTE Technology which will take B.S.ABDUR RAHMAN UNIVERSITY into the exclusive Club of 4G enabled educational Universities & Colleges in the World.
- Xinovem Company located at Women Technology Park, Siruseri, Chennai on 1st February, 2016
- UNIVERSITY OF VIRGINIA, USA signed on 8th February, 2016
- Jasmin Infotech, Chennai on 04 February, 2016.
- Tamil Nadu Pollution Control Board, Maraimalai Nagar, Kancheepuram District on 8th February, 2016.
- National Instruments, Bangalore on 17th February, 2016.
- National Entrepreneurship Network (NEN), Bangalore on 25th February, 2016.

COLLABORATION

- A delegation of Students and Faculty from University Technology Mara, UiTM, Malaysia, visited B S Abdur Rahman University for a Student Exchange Program starting from 1st August, 2015 to 4th September, 2015 to learn the best practices in teaching and research at our University.

International Design Development Summit – 2015

- B. S. Abdur Rahman University hosted a four-week International Development Design Summit (IDDS – Aarogyam, meaning "good health") at its university campus, Chennai, India from July 06, 2015 – August 01, 2015. IDDS attracted people from diverse nationalities and socioeconomic statuses to create low-cost, practical innovations to improve the lives of people living in poverty in rural areas. Over 65 participants from twenty countries participated in the event.

Six Members Delegation from University College of Technology Sarawak, Malaysia

- Six members delegation from University College of Technology Sarawak, Malaysia, visited BSAU on 13th April 2015 and explored various possibilities for strengthening academic partnerships between UCTS and BSAU.

Six Members Delegation From BSAU visited Festo Global Production Centre, India

Six members delegation, Dr. V. M. Periasamy, Vice Chancellor, Dr. S. Prince Arockia Doss, Director, International Collaboration, Dr. R. Raja Prabu, Dean, Academic Research, Dr. M. Murugan, Dean, School of Mechanical Sciences, Dr. S. Kaja Mohideen, Dean, School of Electrical & Communication Sciences and Dr. U. Sabura Banu, Professor, Department of Electronics and Instrumentation Engineering from B. S. Abdur Rahman University visited Festo Global Production Centre, Festo Controls Private Limited, Bangalore on 12th June, 2015 and interacted with Mr. Rashmikant Joshi, Managing Director, Festo Didactic Head at Bangalore, Mr. Harish Nachnani, National Sales Manager, Festo Didactic, Mr. Andreas Decker, Head – Technology and Engineering Centre, Global Production Centre, Festo Controls Private Limited, Bangalore and Mr. Ashok Vasudevan, Managing Director, Festo Global Production Centre, India

6.3.9   Admission of Students

U.G. Programs

Candidates should have passed 12th standard or equivalent examination with a minimum aggregate of 50% marks in Mathematics, Physics and Chemistry for admission in the 4 year B.Tech degree program

- **Entrance Examination (BSAUEEE)** is conducted on all India basis for admission to these programs.
- Candidates are **ranked on the basis of performance in qualifying examinations and entrance examination.**
- On the basis of merit, the students are asked to **appear for counseling** for admission
- Candidates with Diploma in Engineering are admitted to II year B.Tech. (Lateral Entry) **on the basis of performance in their qualifying examinations and in the interview** conducted by the University.
- **Eligibility criteria for B.Arch Programme:**
  o Candidates should have passed 12th standard or equivalent examination with a minimum aggregate of 50% marks with Mathematics and English as subjects of study as per the norms of Council of Architecture.
  o Candidates should have a minimum score of 40% in National Aptitude Test of Architecture (NATA)
  o Candidates aspiring admission to B.Arch need not attend BSAUEEE.

P.G. Programs

- For **admission to M.C.A degree program**, candidates with any degree with Mathematics as one of the subjects studied at least at the Higher secondary level are eligible to apply. Selection of candidates is made based on merit in qualifying examination, entrance examination and interview conducted by the University.
- For **admission to M.B.A. program,** candidates holding any degree are eligible to apply. Selection is based on merit in qualifying examination, MAT,GMAT,CAT/any Nationally recognized entrance examination/entrance examination conducted by the University, Group Discussion and Interview conducted by the University
- For **admission to M.Tech. program**, candidates with a pass in appropriate B.Tech. degree examination of this University or equivalent thereto are eligible to apply. Selection is based on merit in qualifying examination, entrance examination and interview conducted by the University

  Hence admissions to all P.G. Programs (100%) are made by conducting Entrance Examination.

Research Programs

- A **department / school level entrance examination and interview** are conducted for admission to Ph.D. programme.
- Qualification for **admission to Ph.D programs**
  - Candidates with a degree in M.E. / M.Tech. or M.S. (By Research) in the relevant branch of Engineering or Technology are eligible to apply for Ph.D programs in Engineering & Technology in full time mode and part time mode.
  - Candidates with M.Sc. / M.A. / M.C.A / M.S. (By Research) / M.Phil. in the relevant branch of Science and Humanities are eligible to apply for Ph.D. Degree in Science and Humanities.
  - MBA / M.Phil. / Postgraduate Diploma in Business Management or Administration awarded by Indian Institute of Managements (IIMs) / M.S. (By Research) in Management Sciences / MMS / 2 year postgraduate diploma in Management recognized by AICTE are eligible to apply for Ph.D. degree in Management Sciences
  - Any other qualification recognized as equivalent thereto in the field of study with a minimum of 10 Years of R&D Experience in national research laboratories / public sector undertakings and with minimum of three publications in refereed journals / two patents for Ph.D program in their relevant areas
- A committee, constituted department wise, by the Dean (Academic Research) for the purpose of selection, screening the applications as per the eligibility norms and conducts entrance test for eligible candidates.
- On the basis of their performance in the test, the committee interviews them to short-list the successful candidates and is approved by the Research Board.

6.4 Welfare schemes for

Teaching	- All members of staff are granted earned leave and medical leave in addition to CL. - Female members of staff are eligible for maternity leave. - All members of staff are permitted to en-cash earned leave for 15 days every year. - All members of staff are covered through group insurance for Accident Cum Hospitalization for a sum of Rs. 50,000/- - Bank loan is also facilitated to Teaching staff. - All staff are enrolled in the scheme of Employees provident fund. - Gratuity and Encashment of earned leave is allowed to all Teaching and Non-Teaching staff at the time of superannuation - Wards of the staff members are admitted to UG and PG programme in the University with fee concession. - Health checkup campaign was arranged during 7 – 9 March, 2016 through M/s. Apollo Shine Medical Claim Policy
Non teaching	- All members of staff are granted earned leave and medical leave in addition to CL. - Female members of staff are eligible for maternity leave. - All members of staff are permitted to en-cash earned leave for 15 days every year. - All members of staff are covered through group insurance for Accident Cum Hospitalization for a sum of Rs. 50,000/- - Festival Advance Rs.10,000/- is given to Non-Teaching staff and recovered in 10 equal instalment without interest. - Bank loan is also facilitated to Non-teaching staff. - All staff are enrolled in the scheme of Employees provident fund. - Non-teaching staff are enrolled in the scheme of Employees state Insurance. - Gratuity and Encashment of earned leave is allowed to all Non-Teaching staff at the time of superannuation - Wards of the staff are admitted to UG and PG programmes in the University with fee concession - Health checkup campaign was arranged during 7 - 9 March 2016 through M/s. Apollo Shine Medical Claim Policy
Students	- All students are covered through group insurance for Accident Cum Hospitalization a sum of Rs. 25,000/- and for permanent total disability a sum of Rs. 50,000/- through Star Health and Allied Insurance Company Ltd., Chennai. - Wifi, Separate Gym for Boys and Girls are available in the University, Crescent IAS Academy, Hospital with Ambulance, Bank, Books Shop facilities are available. - Health checkup campaign was arranged during 7 - 9 March 2016 through M/s. Apollo Shine Medical Claim Policy

6.5 Total corpus fund generated

| 200 Lakhs |

6.6 Whether annual financial audit has been done   Yes ✓   No ☐

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	✓	Departments/ Schools	✓	Departments/ Schools
Administrative	✓	N.C. Raja Gopal & Co.	✓	Jalaludin & Co.

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes   Yes ✓   No ☐

For PG Programmes   Yes ✓   No ☐

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

- Those students who secured less than 75% attendance in each course will not be permitted to attend semester end examination. The students will be awarded I grade (I – incomplete grade). They have to repeat the course whenever the course is offered.
- Question paper pattern is maintained for all B.Tech programme by considering fundamental, analytical and applications point of view for all courses.
- Appearing for the semester end examination for each course is mandatory and a student should secure a minimum of 40% marks in each course in semester end examination for the successful completion of the course.
- Every practical course will have 60% weightage for continuous assessment and 40% for semester end examination. However, a student should have secured a minimum of 50% marks in the semester end practical examination.
- The continuous assessment marks earned for a course during his/her first appearance will be used for grading along with the marks earned in the semester end / arrear examination for that course until he/she completes.
- A student who has missed, for genuine reasons, a maximum of one of the four assessments of a course may be permitted to write a substitute examination.
- Semester Exam results are published within 15 days after the end of all exams. Students can browse their result through Camp@IT via internet.
- Centralized examination is conducted by COE for all continuous assessments and end semester examination.

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

No Affiliated College

6.11 Activities and support from the Alumni Association

- Annual Executive Committee meeting held on 26th December 2015 at B.S.A. University.

- Scholarship has been given to Eight of our University UG & PG Students (Rupees Ten Thousand per student)

- As an act of Charity Two People working in the university were given Rupees Five Thousand each for their children education.

- Note Books has been issued to One Hundred school Children in Local Schools as flood relief

- The Alumni Association is organizing Guest Lectures periodically. Mr. Hidayathulla A Sulaiman (1991 EEE) delivered a lecture to motivate the first year students of our University on 24 July 2015 (Friday).

- A Guest Lecture was organized on 9th March 2016, Mr. Seshadrinathan. R, CEO of ESSQUARES ENCLAVE delivered a lecture on "Road Map to a Successful Career".

6.12 Activities and support from the Parent – Teacher Association

About 1200 parents participated in the Parents-Faculty meeting held on 19th September 2015. University officials explained the various steps taken by the administration and faculty members for the benefit of our University students like project based learning, peer-assisted learning, SMS to parents about the progress of their wards, the facilities available in the various laboratories and the special care given to students to improve their employability.

Parents are often meeting the course teacher, class advisor, and HOD for discussing attendance and academic performance. They also give feedback about the university which is used for taking certain policy decision.

Parents are member of School level advisory committee and give suggestion for improvement.

Parents working as executive and entrepreneur are supporting internship, placement, industrial visits, seminars etc.

6.13 Development programmes for support staff

- The supporting staff are encouraged to acquire higher degree and were given on duty facilities. Supporting staff registered their Ph.D with the University.
- They are periodically sponsored to attend skill enhancement programs throughout the country.
- The Faculty Training Academy also arranges courses for non-teaching staff to enhance their professional quality.
- Computer training program are organized periodically for the Administrative and Technical Staff.

6.14 Initiatives taken by the institution to make the campus eco-friendly

- LED fixtures – of 20KW capacity has been installed in our campus and 10% of power is saved.
- All new buildings constructed and those under construction over the last four years are registered with IGBC / USGBC for green building certification.
- New Crescent School of Architecture block which is under construction – designed as a Net Zero Energy building and registration under USGBC is in progress.
- Biodegradable solid wastes are converted as composts.
- Waste water treatment plants are in place. The treated waste water is used for gardening and flushing the toilets.
- Solar panels are erected to generate electricity.

Criterion – VII

7. <u>Innovations and Best Practices</u>

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Dr. A.P.J. Abdul Kalam Innovation Centre was established on 15th October 2015 for Motivating the students to generate innovative ideas.
  The students from various disciplines and benefited.
  - Mr.A.Vetrivel, III year, ECE Department participated in the "Innovation, Creativity and Leadership (ICL), Project Competition" organized by the **Microsoft** Research Community on 7th February 2016 held at Pondichery Engineering College, Puduchery and bagged the **" Innovator Award"** for his Project titled "INTELLIGENT SECURITY SYSTEM FOR B.S. ABDUR RAHMAN UNIVERSITY" .
  - One day multidisciplinary talent-hunt "Cresnovators 2016" event was conducted on 12th of March 2016 to pool the talents in innovative interior, machinery and gadget design, circuit debugging & fabrication and software development.
  - Project based teaching learning introduced in this academic year kindled the interest of the students to learn the subjects with ease.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the
beginning of the year

Plan of Action	Action Taken Report
1. Introduction of more number of interdisciplinary courses as general electives	• There are 22 general elective courses introduced for B.Tech programmes offered by various departments. Further direction was given to all HODs and Deans to introduce more no. of general elective courses by the department. (IQAC meeting held on 19.5.2016)
2. Creation of web portal in the website of BSAU for uploading the course materials prepared by the staff members which is handled by them	• **A learning portal application** to share the learning, teaching contents of BSAU, NPTEL, QEEE, NKN, e-Books, e-Journals, etc.. **has been developed** for our University Staff and Students (BSAU Data Centre). This portal will facilitate the staff to upload their teaching contents and be available for students to read and download any time anywhere not only inside the campus but also outside.
3. Enhancement of interdisciplinary research activity	• Research Forum was established in order to enhance the research activities. • A Interdisciplinary Centre Of Excellence on Molecular Diagnostics was created on 3rd August 2015Several interdisciplinary research experiments are being pursued at our University. • M.Tech. Structural Engineering students are involved in Research and Project works with the department of Chemistry on "Nano particles in Concrete". Currently Research Scholars and M.Tech. students are also pursuing some analytical experiments in Polymer Engineering and Chemistry department. (Civil) • There is ample scope for interdisciplinary research activity with departments like Chemistry, Mechanical Engineering, Electronics and Instrumentation Engineering, Polymer Engineering and Life Science. It is planned to write at least three project proposals with co-principle investigator from other departments. Two proposals are already in pipeline in this regard. (Civil) • M.Tech project titled "Image based analysis to identify infections in Plant Leaf" was carried out as an interdisciplinary work between ECE department and Life Science Department. (ECE) • Chaotic Communication based research is being carried out in collaboration with Physics department. (ECE)
4. To apply for all eligible UG and PG programmes accredited by NBA	First Phase : NBA Team visited during April 2015 and awarded Accreditation for two years for the following programmes • M.Tech. (Structural Engineering) • M.Tech. (Power System Engineering) • M.Tech. (Computer Science & Engineering) Second Phase : NBA Team visited during April 2016 and awarded Accreditation for two years for the following programmes • M.Tech.(Construction Engg. & Project Management) • M.Tech. (CAD / CAM) • M.Tech.(Power Electronics & Drives) • M.Tech.(VLSI & Embedded Systems) • M.Tech. (Information Technology) **Note:** Work in progress to apply remaining programmes for accreditation.

5.	To set a target of attaining almost 40% of faculty holding doctoral degree	The details given below will show the attainment of almost 40% of the faculty holding doctoral degree. As on 1st March 2016, 366 members. of faculty are on regular rolls. Following is the breakup of Ph.D. qualification of our faculty members. ➢ Total number of Faculty -366 ➢ Faculty with Ph.D. qualification - 125 ➢ Faculty Pursuing Ph.D. at our University - 173 ➢ Faculty Pursuing Ph.D. outside University - 40 ➢ Viva-Voce Exam completed - 1 ➢ No. of Ph.D. Scholars Thesis Submitted - 4 ➢ No. of Ph.D. Scholars Synopsis Submitted - 3 ➢ No. of Ph.D. Scholars Ready for Pre Synopsis Review Committee - 7
6.	Establishment of incubation centre of BSAU	Initial work is in progress. Innovation centre was already started
7.	To have additional built up space for School of Architecture	• Structural work of the new building for Crescent School of Architecture is in progress. • Initially structural work for ground plus two floors was completed. • Construction work is in progress to complete the Crescent School of Architecture building of 100,000sqft, to be handed over in July 2017.
8.	To get green building certification from Indian Green Building Council	• All existing buildings are registered with IGBC for green building certification under IGBC – EB rating • All New buildings constructed over the last four years and those under construction are registered with IGBC / USGBC for green building certification • New Crescent School of Architecture block which is under construction – designed as a Net Zero Energy building and registration under USGBC is in progress.
9.	Organizing more outreach programmes	• Workshops for students like carpentry workshop, Bamboo workshop and Design workshops by experts in the field to expose & enhance their skills. (CSA) • Organised a national conference about the career avenues available for MBA (CBS) • Awareness programme on mobility safety workshop conducted on 8th September 2015. (Auto) • Awareness programs on infectious diseases, non infectious diseases to public, school children etc. Offering internships for school and college students in different areas of life sciences (SLS) • Summer internships for school students.
10.	Strengthening of online admission procedures	• Online admission procedures for all UG / PG programmes implemented. • Phase I Online entrance examination was conducted on 21st to 30th April 2016 • Phase II Online entrance examination was conducted on 14th, 21st and 28th May 2016.
11.	Introduction of industrial internship programme atleast for a month for staff members	• Identified three faculty members to aim for industrial internship summer vacation (CBS) • Biotech Industry Institute Consortium was inaugurated in association with biotech industries in Chennai on 27th February, 2016. During the meeting it was decided to send our faculty members for one month training during summer 2016 to the biotech industries in Chennai (SLS)
12.	Strengthening the department alumni interaction	• Coordinators nominated exclusive for alumni interaction in each department. • Official & exclusive networking site for the Members

	of Alumni Association of B S Abdur Rahman University was implemented by Alumni Association and performing well..
13. To strengthen the industry institute interaction	• M/S. Hi-Tech Concrete Solutions (P) Ltd., Chennai, offered to collaborate with university to conduct certificate course on NDT.(Civil) • The department has signed an MoU with National Instruments on 17.2.16 and as part of the MoU the department has set a BSAU-NI competence Lab. Faculty as well as students are trained in NI Labview (ECE) • Two research projects in collaboration with Xinovem were submitted to ICMR, DBT US vision research foundation and Xinovem is included as collaborating industry (SLS)
14. Submission of atleast two proposals per staff per year for funding agencies	• 29 project proposals were sent by the University to various funding agencies during 2015-16 at a cost of Rs.977 Lakhs. • Initiations seriously taken to submit more project proposal to funding agencies by the each department.

7.3 Give two Best Practices of the institution *(please see the format in the NAAC Self-study Manuals)*

Best Practice - 1

> Project based teaching learning process introduced in all programmes to enhance learning skill of students.

Best Practice – 2

> The innovation centre established in the University to promote the lateral thinking of students and to implement their original ideas as product / process.

Details are provided in Annexure-III

7.4 Contribution to environmental awareness / protection

- Extreme care taken not to disturb trees, green vegetation in the campus while designing new building blocks.
- Sewage Treatment Plant (STP) – one plant of 250KLD capacity for Men's Hostel and another 250KLD capacity plant for University is in operation. 500KLD of water is treated and utilized for Landscaping in the University and Hostels.
- Bio-gas methanisation plant of 100m3 capacity commissioned in February 2015 at a cost of 30Lacs. 1 cylinder of bio-gas per day is utilized for Men's Hostel kitchen.
- LED fixtures – of 20KW capacity has been installed in our campus in the past 4 years. At least 30% of power is saved in this.
- Solid Waste Management program – to segregate and recycle organic waste, paper, cartons, paper cups, soft drink tins, plastic, pet bottles, etc.

7.5 Whether environmental audit was conducted?   Yes ☐   No ☑

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

National Institutional Ranking Framework MHRD (4th April 2016)

- B.S. Abdur Rahman University ranked overall 54 among 3000+ Engineering Institutions in the Country.
- B.S. Abdur Rahman University, serving for the cause of Engineering education for the last 32 years, ranked 15th among private Engineering Institutions in the country and overall 54th rank among 3000+ Engineering Institutions across the country.
- It is all the more important that B.S. Abdur Rahman University is positioned all India 20th rank in the category of Teaching-Learning & Resources (TLR).
- In this category the University is the 3rd best in Tamil Nadu and 2nd in Chennai.

TIMES Engineering Institute Ranking Survey 2016: India (27th May 2016)

- B.S. Abdur Rahman University ranked overall 57th among 3000 Engineering Institutions in India.
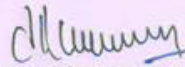- B.S. Abdur Rahman University ranked 25th among 75 private Engineering Institutions in India.

The Week – Hansa Research - Best University Survey 2016 (May 2016)

- BSAU Ranked at 37 in the Top Technical Universities (All India) Category
- Ranked 12th Place in the Top Technical Universities (South Zone) Category
- Ranked 10th place in the Non - Government Technical Universities (All India) Category
- Ranked 05th place in the Non - Government Technical Universities (South Zone) Category
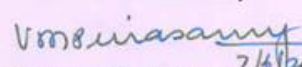
8.0 Plan of institution for the next year

1. Enhancement of project based teaching learning process
2. Thorough revision of curricula and syllabi of all PG programmes and UG programmes incorporating the industry need.
3. Flexible timing to do M.Tech program by Industry personnel.
4. Starting of M.Arch programme in Crescent School of Architecture
5. Strengthening of interdisciplinary research work
6. Enhancement of internship for students in Industries
7. Enhancement of industry institute collaboration
8. To conduct more skill based programmes for placement
9. To strengthen the computer facilities in the Central Library
10. Introduction of more general elective courses
11. Mobilize more grants thro' funded projects.
12. Increase the no. of research publications.
13. Strengthening peer – assisted learning.
14. Participation of all faculties in the overall development of the University to give more visibility to the University.
15. To introduce the slotted time table

Name : Dr. T.R. Rangaswamy

7/6/16

Signature of the IQAC Coordinator

Name : Dr. V.M. Periasamy

7/6/2016

Signature of the IQAC Chairman

ANNEXURE I (A) – ACADEMIC SCHEDULE AS PER ACADEMIC CALENDAR

B.S. ABDUR RAHMAN UNIVERSITY

Academic Schedule – for the Academic year 2015-16   20.7.2015

Activity	ODD SEMESTER			EVEN SEMESTER		
	Under Graduate (Regular & Part-Time)	Post Graduate	SIS	Under Graduate (Regular & Part-Time)	Post Graduate	SIS
Refresher Course / Bridge Course; First year UG Students / Lateral Entry Students	22.06.2015	-	-			
Reopening	22.07.2015		22.06.2015	04.01.2016		-
CAT I	27.08.2015	07.10.2015	12.08.2015	10.02.2016	21.03.2016	14.12.2015
CAT II	07.10.2015	12.11.2015	08.10.2015	21.03.2016	23.04.2016	27.01.2016
CAT III	12.11.2015	-	-	23.04.2016	-	10.03.2016
Payment of Exam Fees	02.11.2015	-	26.10.2015	11.04.2016	-	04.04.2016
Payment of Exam Fees with Fine	12.11.2015		02.11.2015	19.04.2016		11.04.2016
Last Working Day	19.11.2015		20.11.2015	29.04.2016		22.04.2016
Practical Courses - Semester End Exams	20.11.2015		-	30.04.2016	-	-
Theory Courses – Semester End Exams	28.11.2015		23.11.2015	09.05.2016		25.04.2016
Substitute Exams & Ph.D. Directed Study	12.12.2015		30.11.2015	23.05.2016		02.05.2016
Arrears	16.12.2015		02.12.2015	26.05.2016		03.05.2016
Result Declaration	24.12.2015		08.12.2015	01.06.2016		12.05.2016
Summer Term Courses (STC)		-		09.06.2016		
STC Exams		-		13.07.2016		
STC Exams - Result Declaration		-		18.07.2016		
Reopening Date	04.01.2016			18.07.2016		

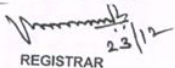COE 28.07.2015   DEAN (AA) 20/7/15   REGISTRAR 20/7/15

ANNEXURE I (B) – ACADEMIC SCHEDULE AS PER ACADEMIC CALENDAR

Revised Academic Schedule – Even Semester (2015-16)

B.S. ABDUR RAHMAN UNIVERSITY
Academic Schedule – for the Even Semester 2016

23.12.2015

Activity	EVEN SEMESTER			MBA	
	Under Graduate (Regular & Part-Time)	Post Graduate	SIS	II/V Trimester	III / VI Trimester
Reopening	25.01.2016		22.12.2015	03.11.2015	10.03.2016
CAT I	29.02.2016	31.03.2016	31.03.2016	-	-
CAT II	31.03.2016	02.05.2016	02.05.2016	-	-
CAT III	02.05.2016	-	-	-	-
Payment of Exam Fees	11. 04.2016			19.01.2016	11.04.2016
Payment of Exam Fees with Fine	20.04.2016			27.01.2016	20.04.2016
Last Working Day	11.05.2016		23.04.2016	23.02.2016	18.05.2016
Practical & Theory Arrears - Semester/Trimester End Exams	12.05.2016			24.02.2016	19.05.2016
Theory Courses – Semester/Trimester End Exams	26.05.2016		25.04.2016	26.02.2016	21.05.2016
Substitute Exams & Ph.D. Directed Study	09.06.2016			-	-
Result Declaration	13.06.2016			10.03.2016	09.06.2016
Summer Term Courses (STC)	15.06.2016			-	-
STC Exams	23.07.2016			-	-
STC Exams - Result Declaration	28.07.2016			-	
Reopening Date for the next semester / Trimester	02.08.2016			10.03.2016 (III & VI Trimester)	18.07.2016 (I & IV Trimester)

DOE
23\12\2015

DEAN (AA) 23\12\15

REGISTRAR
23\12

ANNEXURE II (A) – Student Feedback Report - Level I

B.S.Abdur Rahman University, Vandalur, Chennai-48.

STUDENTS FEEDBACK REPORT

Interim Feedback – Level I

Feedback Date	: 30/03/2016
Class Name & Semester	: B. Tech. (AUTO - A) - 8
Total Number Of Students	: 61
Number Of Students Responded	18
Staff Name	: MR.D.ROSHAN
Subject Code & Name	: AU 410 & Comprehension

S.No.	Question	Grade Point (1 - 5)
	Level I	
1	Teacher speaks clearly and audibly	5.00
2	Teacher writes and draws legibly	3.94
3	Teacher's pace and level of instruction are suited to the level of students	3.94
4	Teacher uses variety in teaching methods and employs relevant tools	3.83
5	Teacher comes to the class on time and engages regularly	3.89
6	Teacher is able to maintain discipline in the class	3.94
7	Teacher comes well prepared in the course	3.94
8	Teacher Explains concepts well, provides adequate examples	4.00
9	Teacher encourages students questioning and creativity	3.94
10	Teacher had created an interest in the course	4.06

Overall Average for the subject :   4.05

Course Teacher   Class Advisor   HOD/AUTO

Generated Through   C@mpIT

ANNEXURE II (B) – Student Feedback Report - Level II (Part A)

B.S.Abdur Rahman University, Vandalur, Chennai-48.

STUDENTS FEEDBACK REPORT

Part A (feedback on the Course Teacher) - Level II

Feedback Date : 03/05/2016

Class Name & Semester : B. Tech. (CE - A) - 2

Total Number Of Students : 46

Number Of Students Responded : 20

Staff Name : DR. S. MAHASAMPATH GOWRI

Subject Code & Name : CHB 1283 & Chemistry of Building Materials

S.No.	Question	Grade Point (1 - 5)
	Evaluation	
1	Teacher gives variety of assessments like seminars, quiz, and design exercise as assignments and conducts tests	2.35
2	Teacher selects standard questions covering the stipulated syllabus	2.20
3	Teacher provides good feedback during evaluation on the performance of the students	2.35
4	Teacher's evaluation of assignments and tests is fair and impartial	2.40
	On presentation skills of the course teacher	
1	Teacher speaks clearly and audibly	2.85
2	Teacher writes and draws legibly	2.65
3	Teacher's pace and level of instruction are suited to the level of students	2.20
4	Teacher uses variety in teaching methods and employs relevant tools	2.15
	On the approach adopted by the course teacher	
1	Teacher comes to the class on time and engages regularly	2.65
2	Teacher is able to maintain discipline in the class	2.30
3	Teacher offers assistance and counseling to the needy students	2.40
4	Teacher is courteous and impartial in dealing with students	2.65
	On the effectiveness of teaching - Learning	
1	Teacher comes well prepared in the course	2.70
2	Course is organized in logical sequence	2.40
3	Teacher Explains concepts well, provides adequate examples	2.25
4	Teacher encourages students questioning and creativity	2.65
5	Teacher is accessible for clarification of doubts	2.55
6	Teacher had created an interest in the course	2.30
7	Teacher had linked the course to real life engineering and made it interesting	2.60

Overall Average for the subject : 2.44

Course Teacher

Class Advisor

HOD/CE

Generated Through **C@mpIT**

ANNEXURE II (B) – Student Feedback Report - Level II (Part B)

B.S.Abdur Rahman University, Vandalur, Chennai-48.

STUDENTS FEEDBACK REPORT

Part B (Feedback on the Course) - Level II

Feedback Date : 06/05/2016

Class Name & Semester : B. Tech. (CE - A) - 2

Total Number Of Students : 46

Number Of Students Responded : 9

Staff Name : DR. S. MAHASAMPATH GOWRI

Subject Code & Name : CHB 1283 & Chemistry of Building Materials

S.No.	Question	Grade Point (1 - 5)
	On the relevance of the course	
1	The relevance of the course in fulfilling the program objective	4.00
2	The contribution of the course in-terms of knowledge and skill gained	4.11
3	The success of the course in achieving the stated course objectives	3.78
4	The general rating of the course	4.00
5	The difficulty level of the course (5- Very easy, 4- Easy, 3 – Balanced, 2 – Difficult,1- Very difficult)	3.44

Overall Average for the subject : 3.87

Course Teacher

Class Advisor

HOD/CE

Generated Through **C@mpIT**

ANNEXURE II (C) – FEEDBACK FROM OUTGOING STUDENTS

1

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
B. S. ABDUR RAHMAN UNIVERSITY, CHENNAI 600048

Exit Survey from ECE Department (UG)

B.TECH-ECE-A (2012-2016)

	Future Plans	I intend to work in software industry - 52% I intend to work in core industry - 14% I intend to go for higher studies - 19% I intend to start my own business. – 15% I intend to do other thing.–NIL
1.	**Assessment of abilities, skills and attributes acquired at B.S.A University.**	**Percentage**
	1. Apply knowledge of Mathematics, Physics and Engineering.	Very well prepared -10 % Well prepared -50% Prepared -40% Somewhat prepared -0% Not prepared -0% Can't evaluate -0%
	2. Design and conduct experiments, as well as to analyze and interpret data.	Very well prepared -0% Well prepared -60% Prepared -30% Somewhat prepared -10% Not prepared -0% Can't evaluate -0%
	3. Design a system , component, or process to meet desired needs.	Very well prepared -12% Well prepared -28% Prepared -40% Somewhat prepared -20% Not prepared -0% Can't evaluate -0%
	4. Function effectively in teams	Very well prepared -24% Well prepared -47% Prepared -23% Somewhat prepared -6% Not prepared -0% Can't evaluate -0%
	5. Identify, formulate, and solve engineering problems.	Very well prepared -15% Well prepared -37% Prepared -43% Somewhat prepared -5% Not prepared -0% Can't evaluate -0%
	6. Understand professional and ethical responsibilities.	Very well prepared -38% Well prepared -24% Prepared -38 % Somewhat prepared -0%

2

		Not prepared	-0%
		Can't evaluate	-0%
7.	Communicate effectively (written reports).	Very well prepared	-12%
		Well prepared	-36%
		Prepared	-40%
		Somewhat prepared	-5%
		Not prepared	-7%
		Can't evaluate	-0%
8.	Communicate effectively (oral presentations).	Very well prepared	-15%
		Well prepared	-63%
		Prepared	-22%
		Somewhat prepared	-0%
		Not prepared	-0%
		Can't evaluate	-0%
9.	Understand and appreciate the impact of engineering in the societal and global contexts.	Very well prepared	-0%
		Well prepared	-47%
		Prepared	-48%
		Somewhat prepared	-5%
		Not prepared	-0%
		Can't evaluate	-0%
10.	Be aware of the need for improving my ability to engage in life-long learning.	Very well prepared	-15%
		Well prepared	-38%
		Prepared	-38%
		Somewhat prepared	-9%
		Not prepared	-0%
		Can't evaluate	-0%
11.	Be aware of contemporary issues.	Very well prepared	-23%
		Well prepared	-38%
		Prepared	-33%
		Somewhat prepared	-6%
		Not prepared	-0%
		Can't evaluate	-0%
12.	Ability to use computer technology in communications.	Very well prepared	-20%
		Well prepared	-33%
		Prepared	-42%
		Somewhat prepared	-5%
		Not prepared	-0%
		Can't evaluate	-0%
13.	Ability to use computer technology in engineering analysis/design.	Very well prepared	-15%
		Well prepared	-41%
		Prepared	-30%
		Somewhat prepared	-7%
		Not prepared	-7%
		Can't evaluate	-0%
14.	Ability to use state of the art techniques and tools in engineering practice.	Very well prepared	-24%
		Well prepared	-34%
		Prepared	-34%
		Somewhat prepared	-3%

3

		Not prepared	-5%
		Can't evaluate	-0%
2.	**Assessment of the Learning Environment at B.S.A University**		
	A.Quality of instruction and support for learning provided by the faculty members in:		
	• Sciences	Extremely satisfied	-20%
		Very satisfied	-57%
		satisfied	-23%
		Somewhat satisfied	-%
		Not satisfied	-%
		Can't evaluate	-%
	• Computers	Extremely satisfied	-19%
		Very satisfied	-43%
		satisfied	-33%
		Somewhat satisfied	-5%
		Not satisfied	-0%
		Can't evaluate	-0%
	• Language	Extremely satisfied	-28%
		Very satisfied	-24%
		satisfied	-48%
		Somewhat satisfied	-0%
		Not satisfied	-0%
		Can't evaluate	-0%
	• General Engineering	Extremely satisfied	-33%
		Very satisfied	-34%
		satisfied	-33%
		Somewhat satisfied	-0%
		Not satisfied	-0%
		Can't evaluate	-0%
	• Management	Extremely satisfied	-20%
		Very satisfied	-23%
		satisfied	-57%
		Somewhat satisfied	-0%
		Not satisfied	-0%
		Can't evaluate	-0%
	• Economics	Extremely satisfied	-28%
		Very satisfied	-42%
		satisfied	-30%
		Somewhat satisfied	-0%
		Not satisfied	-0%
		Can't evaluate	-0%
	• Soft Skills	Extremely satisfied	-23%
		Very satisfied	-37%
		satisfied	-40%
		Somewhat satisfied	-0%
		Not satisfied	-0%
		Can't evaluate	-0%
	B. Quality of instruction and support for learning	Extremely satisfied	-33%

4

given by technicians.	Very satisfied -33%
	satisfied -28%
	Somewhat satisfied -6%
	Not satisfied -0%
	Can't evaluate -0%
C. Quality of advice by the staff with respect to:	
• Academic Planning	Extremely satisfied -23%
	Very satisfied -48%
	satisfied -23%
	Somewhat satisfied -6%
	Not satisfied -0%
	Can't evaluate -0%
• Career Planning	Extremely satisfied -24%
	Very satisfied -49%
	satisfied -27%
	Somewhat satisfied -0%
	Not satisfied -0%
	Can't evaluate -0%
• Personal Counseling	Extremely satisfied -19%
	Very satisfied -52%
	satisfied -23%
	Somewhat satisfied -0%
	Not satisfied -6%
	Can't evaluate -0%
D.Equity of treatment by:	
▪ Academic administrators	Extremely satisfied -19%
	Very satisfied -47%
	satisfied -23%
	Somewhat satisfied -6%
	Not satisfied -6%
	Can't evaluate -0%
▪ Faculty	Extremely satisfied -21%
	Very satisfied - 45%
	satisfied -20%
	Somewhat satisfied -9%
	Not satisfied -6%
	Can't evaluate -0%
▪ Technicians	Extremely satisfied -25%
	Very satisfied -50%
	satisfied -15%
	Somewhat satisfied -5%
	Not satisfied -5%
	Can't evaluate 0-%
▪ Fellow Students	Extremely satisfied -28%
	Very satisfied -57%
	satisfied -15%
	Somewhat satisfied -0%
	Not satisfied -0%

5

		Can't evaluate -0%
E.Quality of the facilities:		
	• Classrooms	Extremely satisfied -28% Very satisfied -42% satisfied -25% Somewhat satisfied -5% Not satisfied -0% Can't evaluate -0%
	• Science laboratories	Extremely satisfied - 28% Very satisfied -5% satisfied - 57% Somewhat satisfied -10% Not satisfied -0% Can't evaluate -0%
	• Engineering Laboratories	Extremely satisfied -33% Very satisfied -33% satisfied - 23% Somewhat satisfied -11% Not satisfied -0% Can't evaluate - 0%
	• Computing facilities	Extremely satisfied -34% Very satisfied -30% satisfied -34% Somewhat satisfied -2% Not satisfied -0% Can't evaluate -0%
	• Libraries	Extremely satisfied -34% Very satisfied -48% satisfied -9% Somewhat satisfied -8% Not satisfied -1% Can't evaluate -0%
	• Internet facility	Extremely satisfied -15% Very satisfied -52% satisfied -19% Somewhat satisfied -14% Not satisfied -0% Can't evaluate - 0%
3.	**Assessment of Support Services**	
	A. Academic Services	
	• Admissions Office	Extremely satisfied -23% Very satisfied -33% satisfied -44% Somewhat satisfied -0% Not satisfied -0% Can't evaluate -0%
	• Registrar Office	Extremely satisfied 30-% Very satisfied -25%

6

		satisfied -40%
		Somewhat satisfied -5%
		Not satisfied -0%
		Can't evaluate -0%
• Controller of Examinations Office		Extremely satisfied -19%
		Very satisfied -52%
		satisfied -29%
		Somewhat satisfied -0%
		Not satisfied -0%
		Can't evaluate -0%
• Placement and Training Office		Extremely satisfied -28%
		Very satisfied -48%
		satisfied -19%
		Somewhat satisfied -5%
		Not satisfied -0%
		Can't evaluate -0%
• Class Advisor		Extremely satisfied-62%
		Very satisfied -23%
		satisfied -15%
		Somewhat satisfied -0%
		Not satisfied -0%
		Can't evaluate -0%
B. Administrative Offices:		
• Administrative Office in Your Department		Extremely satisfied 28-%
		Very satisfied -43%
		satisfied -29%
		Somewhat satisfied -0%
		Not satisfied -0%
		Can't evaluate -0%
• Administrative Office in the University		Extremely satisfied -38%
		Very satisfied -33%
		satisfied -23%
		Somewhat satisfied -%6
		Not satisfied -0%
		Can't evaluate -0%
C. Other Services:		
• Medical facility		Extremely satisfied -10%
		Very satisfied -42%
		satisfied -31%
		Somewhat satisfied -11%
		Not satisfied -6%
		Can't evaluate -0%
• Canteen		Extremely satisfied -9%
		Very satisfied -43%
		satisfied -28%
		Somewhat satisfied -20%
		Not satisfied -0%
		Can't evaluate -0%
• Hostel		Extremely satisfied -11%

		Very satisfied -57% satisfied -27% Somewhat satisfied -0% Not satisfied -0% Can't evaluate -5%
	• Sports and Games	Extremely satisfied -30% Very satisfied -20% satisfied -50% Somewhat satisfied -0% Not satisfied -0% Can't evaluate -0%
	• Transport	Extremely satisfied -28% Very satisfied -19% satisfied -38% Somewhat satisfied -10% Not satisfied -0% Can't evaluate -5%
	• Extra-curricular activities	Extremely satisfied -12% Very satisfied -55% satisfied -20% Somewhat satisfied -12% Not satisfied -0% Can't evaluate -0%
	• Information dissemination	Extremely satisfied -15% Very satisfied -38% satisfied -29% Somewhat satisfied -6% Not satisfied -9% Can't evaluate - 3%
4.	Assessment of curriculum offered, schedules and question paper standards	
	A. Curriculum:	
	• Flexibility of the curriculum	Extremely satisfied -21% Very satisfied -50% satisfied -29% Somewhat satisfied -0% Satisfied with modification -0% Not at all satisfied -0%
	• Provides enough skills on design and problem solving techniques	Extremely satisfied -48% Very satisfied - 23% satisfied -26% Somewhat satisfied -3% Satisfied with modification- 0% Not at all satisfied -0%
	• Encourages self study	Extremely satisfied -9% Very satisfied -56% satisfied -18% Somewhat satisfied -17% Satisfied with modification 0-%

8

		Not at all satisfied - 0%
. •	Coverage of cutting edge technology topics in order to face the future	Extremely satisfied - 42% Very satisfied -38% satisfied -20% Somewhat satisfied -0% Satisfied with modification -0% Not at all satisfied - 0%
•	Coverage of advanced topics to take up career in research	Extremely satisfied - 22% Very satisfied - 67% satisfied -21% Somewhat satisfied -0% Satisfied with modification -0% Not at all satisfied - 0%
•	Promotes intellectual growth	Extremely satisfied - 39% Very satisfied -38% satisfied -23% Somewhat satisfied -0% Satisfied with modification -0% Not at all satisfied - 0%
•	Enhances our employability	Extremely satisfied -% Very satisfied -% satisfied -% Somewhat satisfied -% Satisfied with modification -% Not at all satisfied - %
•	Availability of books in library to support curriculum	Extremely satisfied -50% Very satisfied -40% satisfied -10% Somewhat satisfied -0% Satisfied with modification- 0% Not at all satisfied - 0%

Internal Assessment Schedules & Question paper

•	Promotes analytical thinking	Extremely satisfied -32 % Very satisfied -48% satisfied -20% Somewhat satisfied -0% Satisfied with modification -0% Not at all satisfied -0 %
•	Question Papers in terms of thought provoking and bringing out the intellectual capability of students.	Extremely satisfied -41% Very satisfied -49 satisfied -10% Somewhat satisfied -0% Satisfied with modification-0% Not at all satisfied -0%
•	Adequacy of time to cope with assessment schedules	Extremely satisfied -38% Very satisfied -43% satisfied -19% Somewhat satisfied -0%

9

		Satisfied with modification- 0% Not at all satisfied - 0%
	• Quality of Evaluation of assessments	Extremely satisfied -28% Very satisfied - 49% satisfied -23% Somewhat satisfied -0% Satisfied with modification -0% Not at all satisfied - 0%
	• Flexibility of Enrollment and withdrawal of coursework	Extremely satisfied -20% Very satisfied -50% satisfied -30% Somewhat satisfied -0% Satisfied with modification- 0% Not at all satisfied - 0%
	Teaching Methodology	
	• Adoption of innovative teaching methodologies	Extremely satisfied -18% Very satisfied -58% satisfied -24% Somewhat satisfied -0% Satisfied with modification -0% Not at all satisfied - 0%
	• Coverage of the topics	Extremely satisfied -18% Very satisfied -40% satisfied -30% Somewhat satisfied -12% Satisfied with modification-0% Not at all satisfied - 0%
	• Basic concepts taught	Extremely satisfied -21% Very satisfied -41% satisfied -32% Somewhat satisfied -6% Satisfied with modification -0% Not at all satisfied - 0%
	• Encouragement for group discussions, seminars and interactive discussions	Extremely satisfied -32% Very satisfied -51% satisfied -17% Somewhat satisfied -0% Satisfied with modification- 0% Not at all satisfied - 0%
D. **To what extent do you feel that your learning objectives have been achieved?**		
	• To the Maximum	30%
	• Medium	70%
	• Not at all	0%
E. **Can you suggest any course that can be removed from the curriculum of your branch?**		High Speed Networks, Chemistry, Environmental Science, Microprocessor(8085, 86)
F. **Can you suggest any course/program that should be included in the curriculum of**		Apptitude, Advanced Microprocessor, Vehicular diagnosis

10

		your branch?	using Electronics,
5.		**General Assessment**	
	A.	Please list some very important skills that you learnt in the Engineering/Science Program.	Communication Skills, Thinking Skills, Soft Skills, Basic Engineering Skills, Analytical Skills
	B.	Please list some very important or useful skills that you did not get the chance to learn while taking Engineering/Science courses at B.S.A University.	Not Getting enough Practical Knowledge, Hardware Implementation, Coding Skills
	C.	Please write down any comments or suggestions that you think will improve the Engineering/Science programs at B.S.A University.	
	D.	Please give the overall strength and weakness of the Institute/Department	Strengths: Good Lab facility, Good Faculty, Good Infrastructure, Natural Environment Weakness: Basic concepts should even more concentrated, Canteen, Less number of staff in VLSI
	E.	Do you recommend B.S.AbdurRahman University for future aspirants and why?	Yes, Good teaching staffs, Infracture facilities, Good Environment for learning.

HOD/ECE

ANNEXURE II (D) – PARENT FEEDBACK

B.S.ABDUR RAHMAN
U N I V E R S I T Y
B.S. ABDUR RAHMAN INSTITUTE OF SCIENCE & TECHNOLOGY
(Estd. u/s 3 of the UGC Act. 1956) Formerly B.S. ABDUR RAHMAN CRESCENT ENGINEERING COLLEGE

PARENT - TEACHER INTERACTION
FEED BACK FORM

Date of the Meeting: 19: 9: 15

The B.S.Abdur Rahman University is constantly striving for an all round improvement in teaching and learning process, in order to provide maximum benefit of the resources to the students. The parents and guardians of our students are an important part of the University system and we value your feedback to improve the services offered at the University. Kindly fill up the following and handover to the class advisor. This will help us to serve you better.

Name of the parent: N. HUSSAIRA BANU

Address: NO. 3, MASUDHI STREET, KILPAUK GARDEN RD. Ch-10.

Mobile No: 9092316169. Email Id: niyazhussai @ gmail. com.

Name of the Student: N. MOHAMAD AFRAN RRN: 15.0021.6.0.1089

Program : B.Tech/ B.Arch / MCA   Year : I year / II year / III year / IV year / V Year   MECH -'B'

Please rate the University from the Parent's perspective:

(Please tick appropriate box for rating)

S.No.	Description	Excellent	Very Good	Good	Satisfactory
1	Quality of Teaching	✓			
2	Laboratory Facilities	✓			
3	Examination System	✓			
4	Discipline	✓			
5	Campus Atmosphere	✓			
6	Teacher - Parent Interaction	✓			
7	Student Amenities (Bus, Wi-Fi /Internet, Library etc.)			✓	
8	Extracurricular Activities		✓		
9	Sports Facilities		✓		
10	Canteen Facilities	✓			

Any other suggestions for improvements on the following:

1. Administration: ....

2. Academics : ....

3. Others : ....

Date: 19 - 9. 15

N. Hussaira Banu
Signature

ANNEXURE II (E) – ALUMNI FEEDBACK

Alumni Association
B S Abdur Rahman University

Alumni Feedback

Convocation / Graduation Day 2015

Name of the Alumnus:	P. Muthukumar.				
Course / Degree studied:	B.TECH	Dept. / Branch Studied:	MECH	Year of Pass out:	2015.
Present Employment Details:	Apollo tyres Ltd				
Designation:	Team member.				
Name & Address of the Company:	Apollo tyres Ltd oragadam				
Mobile / Contact:	9962221210				
Email:	muthumech206 @ gmail.com				

Your Feedback:

First Job: ☑ Campus Placement ☐ Self Effort ☐ Self Employed (Entrepreneur)

Your Opinion, please rate   (Rating: 1 = Minimum, 5 = Maximum)

		1	2	3	4	5
1.	Campus Environment:	☐	☐	☑	☐	☐
2.	Teaching Standards:	☐	☐	☑	☐	☐
3.	Quality of Lab Training:	☐	☐	☐	☑	☐
4.	Student Amenities:	☐	☐	☐	☑	☐
5.	Assessment & Examination System:	☐	☐	☐	☑	☐
6.	Rate your Teachers:	☐	☐	☑	☐	☐
7.	Rate this Institution:	☐	☐	☐	☑	☐
8.	Public Perception of this Institution:	☐	☐	☐	☑	☐
9.	Placement Efforts of the Institution:	☐	☐	☑	☐	☐

Alumni Association
B S Abdur Rahman University

	1	2	3	4	5
10. Library Facilities:	☐	☐	☐	☑	☐
11. Canteen Facilities:	☐	☐	☑	☑	☐
12. Hostel Facilities:	☐	☐	☐	☑	☐
13. Health Care Facilities:	☐	☐	☐	☑	☐
14. Transport Facilities:	☐	☐	☐	☑	☐
15. Support for Extra-Curricular Activities:	☐	☐	☐	☑	☐
16. Support for Co-Curricular Activities:	☐	☐	☐	☑	☐
17. Support for Sports Activities:	☐	☐	☑	☐	☐
18. Programme Curriculum:	☐	☐	☐	☑	☐
19. Syllabus for Courses :	☐	☐	☐	☑	☐
20. Administrative Services:	☐	☐	☐	☑	☐

Please provide your suggestions / options regarding inclusion of Value Addition Courses in the Curriculum

overall good.

Please provide your suggestions to augment learning environment and experience in the campus:

good.

Please provide your suggestions to improve the Institutional Development:

improve practice in LAB.

Signature: P. Murthy

ANNEXURE III – BEST PRACTICES (1 & 2)

<u>Best Practice - 1</u>

Project based teaching learning process introduced in two courses of each in all programmes in the academic year 2015-2016.

i) Objectives of the Practice

- To enhance the learning skill of the students have deeper understanding of the course they learn.
- 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 collaborative opportunities to enhance the knowledge

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 with team spirit.
- 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.

iii) The Practice

- ➢ The teacher gives theoretical knowledge about the course on which the students can do projects with practical applications.
- ➢ Students can plan the project along with their teammates.
- ➢ Preparation pre project report
- ➢ Design of the project
- ➢ Procurement of components
- ➢ Fabrication and assembling
- ➢ Testing and demonstration
- ➢ Preparation of final project reports

- ➢ Presentation of the project
- ➢ Evaluation of the project

iv) Evidence of Success

- Project based teaching learning process implemented for two courses in all B.Tech Programmes in the year 2015-16 odd and even semesters.
- Meeting were 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 project work by the students were demonstrated in the laboratories 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.

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.
- Assessment methodology to evaluate the project to be enhanced.
- 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.

Best Practice - 2

APJ Abdul Kalam Innovation Centre was established on 15th October 2015.

i)   Objectives of the Practice

- Motivating the students to think laterally and out-of-the-box to generate innovative ideas
- Transforming innovative ideas into products of societal needs
- Faculties mentoring the students to carry out the project effectively by providing required technical guidance
- Filing patents and commercialization of the products in the long run

ii)   The Context

- The centre encourages innovation from young minds and give facilities for doing interdisciplinary research.
- This centre enables to incubate new ventures by the students community.
- The centre will offer technical and infrastructure facilities to do innovative work.

iii)   The Practice

- Establish awareness among students
- Conducting competition and talent hunt programmes
- Making students to participate in national level innovative competition
- Categorization of opportunities
- Planning and Designing of innovative ideas.
- Testing and Implementation.
- Monitoring and outcome measurement.

iv)   Evidence of Success

Achievement of the Student:

- Mr. R. Sriram, Mr. Khalifa Anwar Ali and Mr. Shahul Hameed, Electronics and Instrumentation Engineering students won the third prize under the mentorship of Dr. U. Sabura Banu, Professor, EIE Department for the project titled "Rehabilitation of paralysed using Hand Gestures / EEG through Blue" held at Sardar Patel University, Anand, Gujarat during March 28 -30, 2016 in the National Student Research Convention – ANVESHAN conducted by the Association of Indian Universities.

- M.Raghul, S.Sariga And J.Samaya Poorani of III year, ECE Department participated in the " National Robotics Championship" organized by the ARK Technosolutions &

Robokart.com from 1st April to 3rd April 2016 held at Indian Institute of Technology(IIT) Mumbai and bagged the "**SECOND PLACE''** for their Project titled "LINE FOLLOWER ROBOT".

- Mr.A.Vetrivel, III year, ECE Department participated in the "Innovation, Creativity and Leadership (ICL), Project Competition" organized by the **Microsoft** Research Community on 7th February 2016 held at Pondichery Engineering College, Puduchery and bagged the **'' Innovator Award''** for his Project titled "INTELLIGENT SECURITY SYSTEM FOR B.S. ABDUR RAHMAN UNIVERSITY" .

Innovative Projects under progress

- Prefabricated Panels using E-waste as low cost construction panels
- Open WIFI for Mobile Sim
- Development of Geopolymer composite
- Polyurethane Foams with improved flame retardant characteristics
- Low cost Air cooler
- Lifi – Audio Transmission
- Voice Controlled Wheel Chair
- Hot spot Manager
- Supercapacitor
- Washing machine controlled using PLC
- Weed Remover
- Advanced Accident Rescue System
- Neonatal Temperature monitoring device
- Body Mass Index – Nutrition Report

Activities conducted:

- Motivational experience sharing workshop was conducted on 12.9.2015
- A special lecture was given on "Design Thinking and Innovation" by Ms. Yasmeen Fatimah, University of USA on 10th September 2015.
- Talent hunt programme conducted on 12th March 2016
- Innovative Idea Contest "INNO IDEA CONTEST 2016" conducted on 27.04.2016

v) Problems Encountered and Resources Required

- Motivation and awareness among students to be strengthened.
- Information regarding resource availability as per the requirement of innovator to be strengthened.