B.S.ABDUR RAHMAN UNIVERSITY

THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC

2016-17

INTERNAL QUALITY ASSURANCE CELL (IQAC)

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

Dr. V. MURUGESAN
Registrar

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

Lr. No. 1613:C1:2017

8th September, 2017

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 2016-17 – Cycle I – Reg.

Ref : Track ID : TNUNGN11169.

***

I am pleased to submit the Annual Quality Assurance Report (AQAR) for the year
2016-17. The AQAR has been uploaded on our website on 8th September, 2017.

With best wishes,

Yours sincerely,

8|9|17

(Dr. V. MURUGESAN)
Registrar

Encl.: Annual Quality Assurance Report (AQAR) 2016-17
(TNUNGN11169-B.S. Abdur Rahman Institute of
Science & Technology, Vandalur, Chennai)

Seethakathi Estate, G.S.T. Road, Vandalur, Chennai - 600 048. India.
Tel : +91 (44) 2275 1347, 1348, 1350, 2275 0006 (Direct) Fax : +91 (44) 2275 0520

email : registrar@bsauniv.ac.in
www.bsauniv.ac.in

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

> Tamil Nadu

Pin Code

> 600 048

Institution e-mail address

> bsar@bsauniv.ac.in

Contact Nos.

> + 44 - 22750005, 22750202,
> 22750006, 22751347, 22759200

Name of the Head of the Institution:

> Dr. SAHOL HAMID BIN ABU BAKAR

Tel. No. with STD Code:

> + 44 - 22750005

Mobile:

> +91 7708547999

Name of the IQAC Co-ordinator: Dr. M.S. HAJI SHEIK MOHAMMED

Mobile: +91 9551617817

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/AQAR2016-17.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)* 2016 – 17

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 2015-16 submitted to NAAC on 07.06.2016
    ii. AQAR 2014 -15 submitted to NAAC on 10.06.2015

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) ☐

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   8

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

   Non-Teaching Staff 1   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 3

   (ii) Themes
   - Commercialization of Intellectual Property
   - New Strategies in Higher Education
   - Innovative Teaching Practices

2.14 Significant Activities and contributions made by IQAC

   - Introduction of Slotted Timetable system
   - Arranged Peer Assisted Learning for slow learning students in all programmes
   - Introduction of Project Based Learning courses in every semester
   - Conducted workshop on "Commercialization of Intellectual Property" and "New Strategies in Higher Education" on 9th February 2017
   - Conducted Faculty Development Programme on "Innovative Teaching Practices" during 25th - 27th July 2016
   - Introduction of contemporary general elective courses for B.Tech. and M. Tech. Programmes
   - Introduction of M.Tech. & MBA programmes for industry professionals in flexible mode
   - Revised Curriculum and Syllabus for PG programmes based on industry need

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
• Quality management through result analysis	• Root cause analysis for poor performance in semester end examination was carried out and remedial measures were initiated.
• Introduction of Flipped learning method	• Students were provided with supplementary materials in courses like English and Management to prepare themselves in advance for the classes.
• Enhancing Teaching Learning through continuous monitoring and effective infrastructure	• Continuous monitoring of teaching learning by HoDs and Senior Professors by conducting regular classroom visits. • Appointment of Faculty Advisors to closely monitor the academic performance and personal counselling. • Provision of LCD projector facility in the classrooms.
• Enhancement of Industry Institute Collaboration	• MoUs signed with several National and International organizations. • Industrial training to students and faculties were initiated. • Industry- Institute meeting was organized.
• Revised curriculum and syllabus for all PG programmes based on the industry need	• The curriculum and syllabus of all PG programmes were thoroughly revised with inputs from the stakeholders such as academicians, industry experts, students, parents and alumni.
• Enhance research activities at UG and PG levels	• Central computing facility with 75 computers that works for 24/7. Digital library with 45 computers to facilitate research scholars to browse the literature and update knowledge in the domain. • Initiated measures to offer seed money to students to carry out innovative projects at UG level and to promote research ambience.

Attach the Academic Calendar of the year as Annexure.

Annexure – I : Academic Calendar for the year 2016-17

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

Management ☐ Syndicate ☐ Any other body ☑

Provide the details of the action taken

> Annual Quality Assurance Report for the academic year 2015-16 was approved in the Ninth meeting of Academic Council held on 29th July 2016 (vide agenda item No.9.3.9)

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	19	-	All our programmes are self financing programmes	-
PG	24	5 * M.Tech. Polymer Technology, * M.Tech. Structural Engineering. * M.Tech. Construction Engineering and Project Management, * MBA (offered in flexible mode) * M.A. Islamic Studies	All	-
UG	16	3 B.Sc. Computer Science BCA (CT&IS) BCA (MT&IS)	All	13 CSE-1 IT-3 ECE-1 EIE-3 Mechanical -1 Aero-1 SLS-3
PG Diploma	2	-		-
Advanced Diploma	-	-		-
Diploma	-	-		-

Certificate	-	-		
Others	-	-		-
Total	61	8	-	13

| Interdisciplinary | - | 4
EIE-1
Automobile-1
Physics-1
SLS-1 | - | - |
| Innovative | - | - | - | - |

CSE - Computer Science & Engineering; IT - Information Technology; ECE - Electronics & Communication Engineering; EIE - Electronics & Instrumentation Engineering; SLS - School of Life Sciences

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

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	46
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, Major revision in the Regulations and curricular framework was carried out for PG programmes.
- Changes were incorporated in the B.Arch. Regulations 2013 to align with general guidelines of Council of Architecture.
- Amendments were made in the B.Tech. Regulations 2013 with respect to allotment of marks for attendance, grading for summer re-do courses, etc.

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

No

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professor	Associate Professor	Professor	Others
363	233	45	60	25

(as on Feb. 2017)

2.2 No. of permanent faculty with Ph.D.

133

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

Asst. Professor		Associate Professor		Professor		Others		Total	
R	V	R	V	R	V	R	V	R	V
20	-	3	-	5	-	6	-	34	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

-		9		-

2.5 Faculty participation in conferences and symposia:

Type of Conference	No. of. faculty participated	Presented papers	As resource person
International	38	185	28
National	170	94	41
State	92	19	27

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

- Web based learning
- Project based learning
- Peer Assisted learning
- Concept based instruction
- Outcome based instruction
- Activity based learning
- Self Learning
- Focused group discussion
- Presentation of Live case study
- Role Play
- Video based learning
- Experimental learning
- Learning through QEEE
- Learning through online courses

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 BSAU Engineering Entrance Examination was implemented for the admission of students for the Engineering programmes 2016 - 17.
- Multiple choice questions, concept based, analytical questions, problems and application oriented questions have been incorporated in the question papers.
- Online assignments using Multiple Choice questions were conducted.
- Setting two different question papers for a course was made mandatory. Introduced question paper setting by external examiners in select courses.
- External Academic Audit at department level to ensure standard of question paper and evaluation of answer papers by inviting expert members from leading institutions like Anna University, IIT Madras, etc.
- Department Academic Audit to ensure the standard of question paper setting and valuation of answer scripts by engaging senior faculty members of the department.
- Multiple components like Assignment, Seminar, and Model quiz etc. form components of internal assessment.
- Theory course in the B.Tech. program was evaluated by conducting 3 assessment tests and one end semester examination. The best two out of three assessments were considered for 50% weightage and the semester end examination weightage is 50%.

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

45	31	54

2.10 Average percentage of attendance of students

85%

2.11 Course/Programme wise distribution of pass percentage: (2016-17)

Title of the programme	Total No. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.Tech. Civil Engg.	125	6	74	21	-	54
B.Tech. Mech. Engg.	231	10	80	11	-	76
B.Tech. Polymer Engg.	12	0	50	50	-	50
B.Tech. EEE	31	20	60	20	-	65
B.Tech. ECE	103	14	78	8	-	84
B.Tech. E&IE	21	0	56	44	-	86
B.Tech. CSE	93	19	69	13	-	86
B.Tech. IT	28	11	63	26	-	68
B.Tech. Aerospace Engg.	16	13	75	13	-	50
B.Tech Automobile Engg	36	4	88	8	-	69
B.Arch.	56	0	29	71	-	61

B.A. Islamic Studies	41	20	55	25	-	98
M.Tech. Structural Engineering	33	30	70	0	-	100
M.Tech. Construction Engg. & Project Management	21	24	66	10	-	100
M.Tech. CAD/CAM	3	0	100	0	-	67
M.Tech. Manufacturing Engineering	3	33	67	0	-	100
M.Tech. Power Systems Engineering	4	0	75	25	-	100
M.Tech. Power Electronics & Drives	2	0	100	0	-	100
M.Tech. Communication Systems	4	50	50	0		100
M.Tech. VLSI	4	33	67	0		75
M.Tech. Electronics & Instrumentation Engg.	2	0	100	0	-	100
M.Tech. Computer Science & Engg.	3	67	33	0	-	100
M.Tech. Information Technology	2	0	50	50	-	100
M.Sc. Chemistry	2	0	100	0	-	100
M.Sc. Actuarial Science	5	40	60	0	-	100
M.Sc. Physics	10	33	44	22		90
M.Sc. Microbiology	4	50	50	0	-	100
M.Sc. Biotechnology	2	0	100	0	-	100
M.Sc. Biochemistry	3	33	67	0	-	100
MBA	75	15	59	26	-	99
MCA	84	12	81	7	-	98

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

The IQAC

- Scrutinizes the minutes of the meeting of all class committees of all programmes and provides scope for taking appropriate steps to improve teaching learning process.
- Analyses the students' feedback about the courses and teachers handling the courses and provides suggestions to improve the process of teaching and learning
- Review meetings for project based learning courses at the University level offer suggestions for improvement and relevant directions for future planning.
- Conducts seminars and workshops for faculty members to enhance their teaching pedagogy.
- Provides direction to faculty advisors to closely monitor the academic performance and behaviour of the students on a regular basis.
- Assesses the impact of peer learning sessions.
- Reviews the programme educational objectives and outcomes.
- Offers suggestions to follow the best pedagogy for teaching and learning process based on feedback from stake holders, class committee meeting, HODs meeting, etc.
- Provides suggestions to update elective courses as per the industry requirements and contemporary topics of immediate need.

- Provides direction to make minor modifications in the content of the syllabus through the feedback system and for industry requirement.
- Provides direction to the Faculty Training Academy (FTA) to conduct faculty development programmes to meet the immediate need of faculty.
- 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.
- Analyses the semester end examination results to find out the gap in the teaching and learning.
- Evaluates root cause analysis and initiates action for remedy.
- Monitors and evaluates the quality of teaching in the classroom through auditing by HoDs, Deans and senior professors.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	110
UGC – Faculty Improvement Programme	21
HRD Programmes	17
Orientation Programmes	12
Faculty Exchange Programme	1
Staff Training Conducted by the University	118
Staff Training Conducted by other Institutions	36
Summer / Winter schools, Workshops, etc.	217
Others	9

2.14 Details of Administrative and Technical staff (as on May 2017)

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	101	-	-	2
Technical Staff	105	-	-	5

Criterion – III
3. Research, Consultancy and Extension

3.1. Initiatives of the IQAC in sensitizing /promoting Research Climate in the Institution

- The IQAC coordinates with two tier research committees to monitor and address the issues related to research. They are
    - (i) Research Advisory Committee
    - (ii) Research Board

- In order to enforce quality 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. The academic services put in by the examiner shall also be taken into consideration, before recommending the name of the examiner.

- Framed the guidelines to provide direction for the growth and enhancement of research ambience.

- Wi-fi facilities extended to all areas in the campus.

- Cash incentives for publication of research articles, funded projects and consultancy work.

- Suggested measures for improving existing infrastructural facilities to cater to the need of academic and sponsored research.

- Access to all equipment facilities and software to all research scholars.

- Cash incentives for publication in high impact factor journal.

Some of the measures taken to promote research are listed below.

- The University has instituted 61 Junior research fellows, 12 Senior research fellows and 20 project fellows for the full time research scholars to pursue quality research (Rs. 10,000/- per month for JRF of Science Branches and Rs.15,000/- per month for JRF of Engineering branches, Rs.12,000/- per month for SRF of Science Branches and Rs.18,000/-per month for SRF of Engineering branches).

- The 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 who complete 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., are provided and upgraded from time to time.

- A separate research zone (a unique facility) was created in the university with 40 computers with 24/7 access to research scholars and to enhance research activities.

- The University offers internal funding to students and encourages them to submit project proposal. 32 students were awarded micro funding from Dr.APJ Abdul Kalam innovation centre to incubate their ideas.

- Department of Civil Engineering was funded with 5.5 lakhs to construct the 550 sq.ft. low cost model house with GFRG panel using Rapid wall construction technique. 4 faculty members and 3 students involved in the project and successfully completed the same during June 2016.

- Encourages students to participate in national and international conferences and also encourages summer internship in Industries / R&D organizations for both UG and PG Students.

- Promotes interdisciplinary research proposals.

3.2 Details regarding major projects

Details	Completed	Ongoing	Sanctioned	Submitted
Number of projects	03	03	06	16
Budget Outlay in Rs. Lakhs	28.56	66.54	120.72	665.81

3.3 Details regarding minor projects

Details	Completed	Ongoing	Sanctioned	Submitted
Number of projects	02	01	01	02
Budget Outlay in Rs. Lakhs	5.65	3.9	3.15	27.24

3.4 Details on research publications

Type of Journals	International	National	Others
Peer Reviewed Journals	131	116	-
Non-Peer Reviewed Journals	-	-	-
e-Journals	-	-	-
Conference proceedings	103	47	-

3.5 Details on Impact factor of publications:

Range $\boxed{0.204 - 8.556}$ Average $\boxed{1.84}$ h-index $\boxed{32}$ Nos. in SCOPUS $\boxed{209}$

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

Nature of the Project	Duration in Years	Name of the funding Agency	Total grant Sanctioned (Lakhs)	Received (Lakhs)
Major projects	2 to 3	Aeronautics Research & Development Board, DRDO, New Delhi, NRB, DST SERB, Ministry of Earth Sciences, New Delhi	120.72	75.14
Minor Projects	1	Institution of Engineers, India, New Delhi, Akzon Noble, Netherland	3.15	0.65
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	5	BSAU	3.63	3.63
Students research projects *(other than compulsory by the University)*	2	Tamil Nadu State Council for Science and Technology, Tamil Nadu , IEI(R&D), BSAU	1.77	1.77
Any other(Specify)	-	-	-	-
Total	**1 to 3**		**129.27**	**81.19**

3.7 No. of books published   i) With ISBN No. $\boxed{3}$ Chapters in Edited Books $\boxed{5}$

ii) Without ISBN No. $\boxed{-}$

3.8 No. of University Departments receiving funds from

UGC-SAP   [-]   CAS   [-]   DST-FIST   [-]

DPE   [-]   DBT Scheme/funds   [-]

3.9 For colleges   Autonomy [-]   CPE [-]   DBT Star Scheme [-]

                      INSPIRE [-]   CE [-]   Any Other (specify) [-]

3.10 Revenue generated through consultancy   [9.86 Lakhs]

(Including training)

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	2	5	-	-	-
Sponsoring agencies	DST(SERB), INSA and M/s Mahindra Consulting Engineering Ltd., B.S.Abdur Rahman University	DST(SERB), DBT, B.S.Abdur Rahman University	-	-	-

3.12 No. of faculty served as experts, chairpersons or resource person   [96]

3.13 No. of collaborations   International [4]   National [7]   Any other [-]

3.14 No. of linkages created during this year   [11]

3.15 Total budget for research for current year in lakhs:

From Funding agency   [124.37]   From Management of University   [174.65]

Total   [299.02]

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	06
	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
38	14	19	3	1	-	1

3.18 No. of faculty from the Institution
   who are Ph. D. Guides (as on May 2017)   106
   and students registered under them   485

3.19 No. of Ph.D. awarded to faculty from the Institution   5

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones) (as on May 2017)

JRF   61   SRF 12   Project Fellows   20   Any other   -

3.21 No. of students Participated in NSS events:

University level   300   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	12	Any other	3

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

- Basic computer training for men and women Sub Inspector Cadets from the Tamil Nadu Police Academy was conducted from 22nd August 2016 to 7th Oct 2016. Around 1033 Sub-inspectors were trained.

- ROTASIA is an annual conference of the ROTARACT clubs in Asia which was held at Chandigarh during February 2017 and 5 members from our team participated in this event and won best participation award.

- Millionminds Accelerate – The start-up talk was organised for Entrepreneurs on 10th November 2016. The Start-up founders delivered brief lectures to the students. Nearly 250 students participated from our University.

- The entrepreneurship development cell of the university organized an IEEE Madras Section sponsored workshop in the topic "Business model canvas and Social entrepreneurship" by Dr. Rosy Fernando, founder "Start up solutions" Chennai on 25th February, 2017

- Department of Management Studies in association with ED Cell of our University organised: "Entrepreneurship Orientation Programme" on 20th March, 2017 with support of NSIC Technical Services Centre.

- Department of EEE organised one day seminar on "Stress Management on Student Development – Handling messy situation with confidence" on 30th August 2016.

- The Department of Management Studies organized a workshop on "Entrepreneurship & Soft Skills" under MMA student's chapter on 2nd March 2017.

- The Department of Management Studies organized a workshop "Entrepreneurship Orientation Programme", in association with NSIC-TSC, on 20th March 2017.

- The Department of Physics and Chemistry organised an awareness programme on "Career's in Physics and Chemistry" on 4th March 2017 for school and college students.

- The Department of Computer Applications organised a workshop on "Website Development and Soft skills" on 1st March 2017.

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	204440 (Sqm)	-	-	204440 (Sqm)
Class rooms	105	5	BSAU	110
Laboratories	95	6	BSAU	101
Seminar Halls	14	-	-	14
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	102	39	BSAU	141
Value of the equipment purchased during the year (Rs. in Lakhs)	371.16	58.44	BSAU	429.63
Others	-	-	-	-

4.2 Computerization of administration and library

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

4.3 Library services:

	Existing (a)		Newly added (b)		Total (a + b)	
	No.	Value	No.	Value	No.	Value
Text Books	43437	2,08,89,574	2960	13,32,000	46397	2.22.21,574
Reference Books	22561	1,10,65,512	849	3,82,050	23410	1,14,47,562
e-Books	358	4,36,429	17000	1,07,200	17358	5,43,629
Journals	240	3,94,479	16	36400	256	4,30,879
e-Journals	13251	56,84,960	NIL	7,85,946	13251	64,70,906
Digital Database	1 (NPTEL Database)	2,95,535	NIL	NIL	1	2,95,535
CD & Video	3000	3,00000	NIL	NIL	3000	3,00,000

Others (specify)	Computer systems Printers Photocopy Machine Institutional Membership	10,88,000 5,000 2,50,000	35 1 NIL	14,30,450 19,000 NIL	71 2 NIL	25,18,450 24,000 2,50,000
	1. DELNET 2. MALIBNET 3. Anna University 4. British Council Division 5. American Consulate Library 6. Structural Engineering Research Centre 7. UGC Infonet Digital Library Consortium	49,500			7	49,500

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	2400	50	1 Gbps NKN & WiFi	2	1	3	21	-
Added	-	-	40 Mbps (Airtel), RELIANCE (WiFi) JIO ULTRASPEED LTE 4G technology	1	-	-	3	-
Total	2400	50	1 Gbps NKN & WiFi, 40 Mbps (Airtel), RELIANCE (WiFi) JIO ULTRASPEED LTE 4G technology	3	1	3	24	-

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

- Faculty Training Academy organized "Seven Day Induction Training Programme-2017" from 9th January 2017.
- Workshop on "Introduction to Mobile App Development" was organized by ICT Academy of Tamil Nadu and Faculty Training Academy on 30th and 31st January 2017.
- Faculty Training Academy conducted "ICT Academy Digi Guru" competition on 13th February 2017.

4.6 Amount spent on maintenance in lakhs :

i) ICT	1.90
ii) Campus Infrastructure and facilities	364.97
iii) Equipments	147.30
iv) Others	-
Total:	514.17

Criterion – V
5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Placement and training programme organised to all final year students for Placement.
- Regulation, Curriculum and Syllabus books were distributed to the students.
- Academic calendar containing details such as rules and regulations, examination schedule, important events, etc, distributed to all the students.
- Information regarding merit scholarship to students (govt. and other private bodies) were appraised to students through circulars.
- To create awareness among students about higher education in foreign countries / summer internship opportunities in foreign universities and semester abroad programme by organizing series of workshops by the Centre for International Collaboration.
- Coordinators of NSS, YRC and ROTARACT club motivated students to undertake various extension activities and social responsibilities.
- Students were provided opportunity to participate and exhibit their proficiency in sports and games through physical education department.
- During the class committee meetings, the student members representing the entire class meaningfully interact and express opinions & suggestions of the class students to improve the effectiveness of the teaching-learning process.
- Helped the students in planning their courses of study and general counselling on the academic programme. The Head of the Department of the students attached 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.
- Students were made aware of various cells such as Women Sexual Harassment Cell, Anti-ragging Cell, and Grievance Redressal Cell for men and women separately through Orientation programme and also by providing the details in the University website.
- The university provide merit scholarship based on the performance in the 12th standard examination during 1st year admission. The merit scholarship is continued in the subsequent years based on their academic performance in the previous year.
- Students are encouraged to execute their innovative ideas in Innovation centre with a support of a mentor
- Students are guided to undertake industry based projects.

5.2 Efforts made by the institution for tracking the progression

- The students' progression was discussed at length in class committee meetings.
- Academic progress of the students was communicated to parents by SMS after each continuous assessment test.
- Parents Teachers meeting for all UG and PG programmes to inform the progress of students was conducted on 1st October 2016.
- Root cause analysis in the courses with less pass percentage of results (<70%) to identify the problem and offer remedial measures to avoid recurrence.
- Continuous monitoring of academic progress of students by concerned class advisor, faculty advisor and Head of the Department.
- History card is maintained for every student to facilitate holistic monitoring of all students progress.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
3898	546	498	-

(b) No. of students outside the state   346

(c) No. of international students   10

Men

No	%
3516	79

Women

No	%
928	21

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
159	32	1	1010	-	1205	160	33	1	1115	-	1311

Demand ratio **4:1**   Dropout % **4.19**

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

- The faculty advisors counsel the needy students based on their interest to pursue higher studies in India or abroad. They facilitate the students in choosing the elective courses based on his/her future prospects and guide them in writing competitive examinations such as NET, GATE, TANCET, CAT etc.

No. of student beneficiaries   10

5.5 No. of students qualified in these examinations

NET   0   SET/SLET   1   GATE   4   CAT   2

IAS/IPS etc   0   State PSC   0   UPSC   0   Others   3

5.6 Details of student counselling and career guidance

> The University made elaborate arrangements for student support and mentoring. For every 20 students, one faculty member was 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, career guidance etc.
>
> A separate student counselling centre with full time student counsellor is also available.

No. of students benefited   70

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
81	408 (Based on eligibility criteria fixed by companies)	251 (as on May17)	-

5.8 Details of gender sensitization programmes: -

5.9 Students Activities

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

   State/ University level   462   National level   165   International level   -

   No. of students participated in cultural events

   State/ University level   50   National level   -   International level   -

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

  Sports : State/ University level   156   National level   27   International level   -

  Cultural: State/ University level   3   National level   -   International level   -

5.10 Scholarships and Financial Support

	Number of students	Amount (Lakhs)
Financial support from institution	362	255.55
Financial support from government	-	-
Financial support from other sources	1	0.05
Number of students who received International/ National recognitions	-	-

5.11   Student organised / initiatives

Fairs   : State/ University level | 3 | National level | - | International level | - |

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

5.12   No. of social initiatives undertaken by the students | 9 |

5.13 Major grievances of students (if any) redressed:

- Efforts have been taken to solve the issue of low internal marks of students by introducing new amendment in the 2013 Regulations for B.Tech students. Under this amendment, marks of the best two out of three continuous assessment tests scored by the students shall be considered for calculating internal marks.
- To facilitate final year B.Tech. students to take up full time project in the industry during 8th semester, the theory courses of the 8th semester shall be offered in the Pre-do mode immediately after the 7th semester examinations (December 2016 – January 2017) on need basis.
- The students' request to do four redo courses in the summer term was conducted in order to earn minimum credits to move to higher semester/ for completing the programme.

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

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6.2 Does the Institution have a management Information System

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- 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 to access all the information required for routine University activities.

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

6.3.1 Curriculum Development

- Curriculum framework based on the current trends and industry needs.
- Curriculum is in accordance with ABET norms.
- School level advisory committee was conducted by inviting all the stake holders such as eminent academicians, industry personnel, alumni, employers and students in addition to senior faculty members of the department. Suggestions from various stake holders were taken into consideration in framing the curriculum and syllabus.
- Revision / modification in the curriculum frame work for various programmes offered by the respective department were arrived based on the stakeholders' feedback.
- Meeting of Board of Studies was organized to further brainstorm and approve the suggestions /modifications / inclusions in the curriculum & syllabus.
- Ninth Academic Council Meeting was conducted on 29th July 2016. Major revision in the curriculum and syllabi of PG programmes in addition to the other amendments in the UG regulations and modifications in the syllabus as recommended by the Board of Studies of various departments were approved by the Academic Council.
- Special elective courses were included in the curriculum for the benefit of UG students, PG students and research scholars as per the recommendation of the Board of Studies of different departments.
- Regulation for the three year UG programme was formulated. This was implemented for BCA programme, introduced in the academic year 2016-17

6.3.2 Teaching and Learning

- Slotted time table was introduced to facilitate students to register for more courses and devote more time for curricular and co-curricular activities.
- Students were encouraged to carry out application oriented mini projects during free slots.
- Lab integrated theory courses were introduced in the M.Tech. curriculum under Regulations 2016.
- Revision of curriculum and syllabi of PG programmes based on the principle of Outcome Based Education to strengthen the teaching learning process.
- Teaching and learning focussed on development of professional knowledge, problem solving skills, leadership skills, decision making skills, communication skills, team work, etc.

6.3.3   Examination and Evaluation

- Central valuation of answer scripts of semester end examination made it possible to declare the results within a week.
- The results were uploaded in the university website for easy accessibility for students and parents.
- Two Question papers were prepared for each course to meet the requirement of outcome based education and scrutinized by the department level Academic Audit Committee. Question papers for few courses were set by external examiners, which were scrutinized by the Controller of Examination.
- Answer papers of each course were screened by the Department level Academic Audit Committee and also audited by external experts from leading academic institutions like Anna University, IIT Madras, etc.
- After completion of each continuous assessment and semester end examination, the marks scored by the students were sent to the parents through SMS.

6.3.4   Research and Development

- "Research Forum" was established to bring in research ambience among the faculty members, research scholars and P.G. students.
- Many lectures were organized by inviting external experts and internal domain experts to provide an opportunity for the faculty and research scholars to know more about the cutting edge research going on in other departments / schools so as to promote interdisciplinary research.
- A special lecture on "Experimental facilities of the centre for high pressure research and recent trends in super conductivity" was organised on 15th June 2016.
- A Two day workshop for Research scholars and faculty members of the university on "Research Methodology and Quality Assurance" was organised on 2 and 3rd December 2016.
- Periodic progress review of the work of Research scholars was conducted at the department level to enhance the quality of research. School wise review committee was formed by involving senior professors of the University in addition to the department faculty members. This committee reviewed the progress and submitted a report to the Dean, Academic Research for further monitoring.

6.3.5 Library, ICT and Physical Infrastructure / Instrumentation

Library:

- The Central Library is functioning from 8.00 am to 8.00 pm on all working days. Saturdays and Sundays also the library is working between 9.00 am to 4.00 pm.

- Over 16 thousand e-Journals from IEEE, ASCE, ASME, EBSCO Art & Architecture, EBSCO Business Source Complete, Springer, Elseiver, Royal Society of Chemistry are being subscribed.

- These e-Journals can be accessed from anywhere through Knimbus database.

- Digital library has been created with 100 computers to access online resources. This is functioning on all working days.

- The Central Library is regularly organizing user orientation programme to learn more about e-Journals, e-Books, etc., at regular intervals for the benefit of staff, students and research scholars.

- The Library conducts annual 'Book Exhibition' in the university campus, which facilitates the staff, students and research scholars to look for contemporary books of their specialization.

- Photocopy, scanning and print-out facilities are offered by the Library.

- The Library has the facility to check plagiarism for University's scholarly publications through Turnitin software.

- The Central Library is member of Shodhganga which will facilitate the uploading of Ph.D. thesis.

- The Central Library is organizing Library Information Science programmes at regular intervals to update the latest trends and technologies.

ICT:

- Faculty Training Academy organized four days National Conference on "Free Software Movement of India-4CCon" during 26th - 29th January 2017 and 3000 individuals participated in the conference.

- The Basic computer training for more than 1039 men and women Sub Inspector Cadets from the Tamil Nadu Police Academy was conducted from 22nd August 2016 by the Faculty Training Academy.

INFRASTUCTURE:

- Construction of the building for Crescent School of Architecture is in progress. Ground plus three floors are completed and operational from July 2017.

- Construction of the building for Ladies hostel (Ground + 8 floors) with 128 rooms was completed on October 2016.

6.3.6 Human Resource Management

- University emphasized to have more number of Ph.D holders in the faculty position. Hence the university encouraged all non Ph.D. staff members to register for PhD programme.
- 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 Ph.D. program.
- It also provides 'on duty' facility to undergo course work and carry out research activities in industry or 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 visit abroad on leave to pursue Post Doctoral Fellowship (PDF) 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 granted sabbatical leave for assignments in Universities abroad for two years in order to get acquainted with international practices.
- They are encouraged to publish papers in indexed 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% travelling 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 encouraged to attend faculty development programs for updating their knowledge.
- The University also has an exclusive faculty training academy which caters to the training needs of faculty.
- Career advancement scheme and performance appraisal system are in place.

6.3.7   Faculty and Staff recruitment

- Selection of faculty members is based on the UGC Regulations 2016.

- During the last Academic Year 2016-17, the following positions were recruited.

    Assistant Professors – 20 Nos.

    Associate Professor – 2 Nos.

    Professor   – 5 Nos.

    Visiting Professors   – 5 Nos.

- Total faculty members as on 30th May 2017 are as follows:

Total	Asst. Professors	Associate Professors	Professors	Others
339	212	47	54	26

- Total supporting staff members as on 30th May 2017 are as follows:

Total	Administrative Staff	Technical Staff
213	103	110

6.3.8   Industry Interaction / Collaboration

Industry Institute Interaction
- An Industry- Institute meet was held on 22nd October, 2016 in our University Convention Centre. More than 211 organizations representing sectors like, IT, Manufacturing, Civil, Banking, Healthcare, Instrumentation, Plastic, Marketing, Pharmaceuticals, government organizations like FCCI and MSMEs participated and expressed their willingness for collaboration.

MoUs

- BS Abdur Rahman University signed MOU with
    o Ministry of Economic Affairs, Taiwan for talent recruitment on 21st October 2016.
    o Missouri University, Colombia, USA during February 2017 for International academic co-operation.
    o M/s Revature, a US based firm, pioneer in Online Training & Placements for internship to students.
- School of Life Sciences' MOU with
    o Biozone Research Technologies Pvt. Ltd., Chennai, on 7th April 2016.
    o V Clinbio, USA on 8th June, 2016
    o University of East London, UK on August 2, 2016
    o Geomarine Bio Technologies on 24th November 2016
    o Aaranya biosciences on 24th November 2016
    o Hi Rise Food Technologies on 24th November 2016
    o iBig foundation, Chennai to do collaborative research in biological big data informatics on 17th February 2017
    o Saveetha Dental College, Saveetha University, Chennai on 15th March 2017

COLLABORATION

International Visits

- Dr. P.S. Syed Masood Jamali, Dean, SIS attended an International conference at Bangkok, Thailand during December 2016, and initiated collaboration with St.Theresa International College (Deemed University), Bangkok, Thailand

- Dr. R. Raja Prabu, Dean (Academic Research), visited University of Missouri, USA during 31st January to 4th February 2017 to explore research collaboration between the two institutions. This visit led to signing of MoU between the two Universities.

Visit by International Universities:

- Senior Faculty members from eight UK Universities representing Plymouth University, University of Sussex, University of Surrey, University of Liverpool, Robert Gorden University, University of Sterling, University of Hertfordshire and Southampton Solent University visited BSAU on 25th January 2017 and delivered eight technical talks to students. They also interacted with Vice Chancellor, Registrar and CSE & IT faculty for international collaboration.

Programs Organised by International Bodies:

- US Consulate General, Chennai organised a special program on "Growing up as a Muslim in USA" at BSAU on 2nd March 2017.

- Organized German Language teaching in collaboration with Goethe Institute, Max Muller Bhavan, Chennai leading to A1 level certification in German Language. In the first year of its introduction, 20 students of our University have successfully taken up the certification.

International Student Exchange

- Three students from Curtin University of Technology, Australia, underwent three months internship program in Polymer Nano Technology Centre during January – April 2017. `

- Mr. Mohammad Adil, Mr. Faheem, Ms. Rohini and Ms. Farheen of School of Life Sciences underwent three months (July to September, 2016) internship at Johns Hopkins University, USA

6.3.9   Admission of Students

U.G. Programs

Candidates should have passed 12th standard or equivalent examination and should have cleared the **Entrance Examination (BSAUEEE)** conducted on all India basis through online for admission to these programs.

- Candidates are **ranked on the basis of performance in qualifying examinations and entrance examination.**
- The students are called for counselling for admission on the basis of merit
- Scholarships are offered to students having merit in the HSC/ CBSE and equivalent examinations for admission to B.Tech. Programmes
- 50% to 80% of tuition fee is offered as scholarship to meritorious students.
- Candidates with valid score in JEE are given priority for admission to B.Tech.
- 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.
- To improve the diversity of students, the University participated in Educational Fairs organised in various states and countries.

Eligibility criteria for B.Arch. Programme:

- 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.
- Candidates should have a minimum score of 40% in National Aptitude Test of Architecture (NATA)

P.G. Programmes

- Organised motivational & career development programmes for UG students of reputed Institutions.
- Merit scholarships are offered to attract promising candidates to all the PG programmes.
- Admission campaigns are conducted in industries to attract working professionals.
- Alumni of the University are contacted through social media.
- For **admission to M.C.A degree program**, candidates with any degree with Mathematics as one of the subjects (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 UG degree are eligible to apply. Selection is based on merit in qualifying examination, MAT,GMAT,CAT / any nationally recognized entrance examination and 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. The candidates who had already attended Central / State level Entrance examination and having a valid score in GATE / TANCET were exempted from entrance examination conducted by the University.

Research Programs

- A **department / school level entrance examination and interview** was conducted half-yearly for admission to Ph.D. programme during June 2016 and December 2016.

- 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 under full time 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 eligible 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 casual leave. - 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 members 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 given fee concession during admission in UG and PG programme. - Health check-up campaign was arranged during 29th to 31st August 2016 along with M/s. Apollo Shine Pvt.ltd.
Non teaching	- All members of staff are granted earned leave and medical leave in addition to casual leave. - 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 given fee concession during admission in UG and PG programme. - Health check-up campaign was arranged during 29th to 31st August 2016 along with M/s. Apollo Shine Pvt.ltd.
Students	- All students are covered through group insurance for Accident Cum Hospitalization to a sum of Rs. 25,000/- and for permanent total disability to 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, Hospital with Ambulance, Bank, Books Shop, Canteen facilities are also available. - Health check-up campaign was arranged during 29th to 31st August 2016 along with M/s. Apollo Shine Pvt.ltd.

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	Yes	Academic experts from Renowned Universities	Yes	Departments / Schools
Administrative	Yes	M/S. N.C. Raja Gopal & Co.	Yes	M/S. Jalaludin & Co.

6.8 Does the University/ Autonomous College declare 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 were not permitted to attend semester end examination. The students were awarded I grade (I – incomplete grade) and asked to repeat the course whenever offered later.
- Question paper pattern provided to all B.Tech. programmes to probe the understanding of fundamental, problem solving, analytical and application oriented skills in all courses.
- 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 the course (except for passed out students).
- Three continuous assessment tests were conducted for students and the marks of the best two tests were considered for grading along with marks earned in the semester end examination.
- Semester Exam results were published within one week after the last examination. Students could browse their result through Camp@IT via internet.

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

- The Green initiative was kicked off on 27th July, 2016. This initiative is two-fold; it focuses on planting tender saplings and handling & recycling of plastic refuse. The handling & recycling of plastic waste is a joint initiative of the Department of Polymer Engineering and alumni association.

- Self Defence Program was held on 19th Aug 2016. A talk on 'Stress Management' was also conducted.

- A Badminton Tournament – Crescent Badminton League Seniors Tournament was held on 25th September 2016, exclusively for SENIORS (40+ age , Men & Women).

- BSAU Alumni – UAE / GCC Chapter convened an Entrepreneurs meet on 14th October 2016 in Dubai.

- BSA Crescent Alumni Association organized blood donation camp as part of the Founder's Day events on 14th and 15th October 2016 at Rajiv Gandhi Government General Hospital, Chennai. The Blood donation camp was organized jointly with the Crescent Blood donors.

- Alumni Association formed Students' Green Club in the University on 17th October 2016.

- Tour de Crescent – a cyclothan event was organised on 19th February 2017 with the active participation of more than 300 alumni.

- The Crescent Alumni Business Networking Forum was held on 25th March 2017 at Crescent School of Business, Chennai.

- The Alumni Association conducted an interactive session with the final year students of the University on 18th April 2017.

- Scholarship was disbursed to twelve UG Students with a total scholarship amount of Rs.1,86,750/- (One Lakh Eighty Six Thousand Seven Hundred and Fifty only).

- Alumni Association awarded an educational scholarship of Rs.5,000/- (Rupees Five Thousand only) to the daughter of a non- teaching staff in the academic year 2016 - 17.

- Annual General Body meeting of Alumni association was held on 24th December 2016 at Park Hotel, Chennai.

6.12 Activities and support from the Parent – Teacher Association

- About 1000 parents participated in the Parents-Faculty meeting held on 1st October 2016. University officials explained the various steps taken by the administration and the department / school for the benefit of students like slotted time table, experiential learning, internship and industry projects, project based learning, peer-assisted learning, SMS to parents about the progress of their wards, the facilities available in the various laboratories and placement training to improve their employability.

- Parents regularly meet with the course teachers, class advisor, and HOD to discuss academic performance of their wards. They were also asked to give feedback which were considered while revamping curriculum & syllabus and taking certain policy decisions.

- School level advisory committee has parent representation to obtain suggestion for improvement in curriculum & syllabus and infrastructure facilities.

- The services of parents who are working as Industry Executive / Entrepreneur supporting the departments by way of offering / arranging internship, placement, industrial visits, seminars, etc.

6.13 Development programmes for support staff

- The supporting staff members were encouraged to acquire higher degree and were given on-duty on need basis. Technical staff are also encouraged to register for Ph.D. if they possess PG Qualification.

- Supporting staff members were periodically sponsored to attend skill enhancement programs in different parts of India.

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

- LED fixtures – of 20KW capacity had been installed in our campus that saved 30% of power consumption.

- All new buildings constructed and those under construction over the last four years were registered with IGBC / USGBC for green building certification.

- New Crescent School of Architecture block which is under construction was designed as a Net Zero Energy building and registration under USGBC is in progress.

- Roof-top Solar Power Plant I of 150kWp capacity was commissioned in June 2014 at a cost of 1.32C. This system saved 54.20 Lakhs till 30th June, 2017.

- Roof-top Solar Power Plant II of 100kWp capacity commissioned in October 2014 at a cost of 62 Lakhs. This system saved around 33.96 Lakhs till 30th June, 2017.

- Total power generated through the Solar PV plants till June 2017 was 1020089 units, which was equal to 13% of our consumption. Avoided emission of greenhouse gases to the equivalent of 607973kg CO_2.

- Air-conditioning split units of 5 star rating with a total of 203 TR were installed in various departments. These AC units are CFC free.

- Solar Water heaters of 42500 litres capacity in Hostels and staff quarters were installed. This is equivalent to 240 electric geysers of various capacities. The power saving is around 10 Lakhs per annum.

- 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 was treated and utilized for landscaping and flushing purposes in the University and Hostels.

- New Bio-gas plant of $50m^3$ capacity for Ladies Hostel was commissioned.

- All existing buildings were registered with IGBC for green building certification under IGBC – EB rating.

- Solid Waste Management program is in place to segregate and recycle organic waste, paper, cartons, paper cups, soft drink tins, plastic, pet bottles, etc.

- To reduce pollution inside campus, 25 bicycles were provided for students to commute between Men's Hostel and College Main gate.

- Sanitary napkin incinerator with wet scrubber was installed in ladies hostel for disposing the napkins. Wet scrubber was attached at the outlet of burner fumes where the fumes gets scrubbed in water and gets filtered to remove the harmful emissions.

Criterion – VII

7. Innovations and Best Practices

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

- An Inno Idea contest was conducted on 17th February 2017 to showcase the innovative ideas of budding engineers. 11 student projects worth 1.12 lakhs have been selected for funding. This resulted the following immediate achievements:

  ✠ Students of Electronics and Communications engineering participated in National level ANVESHAN- 2017 organized by Association of Indian Universities, at TUMKUR, Karnataka on 14th & 15th February 2017 and bagged third prize in the Southern Zone level for their innovative project on "Automated system for effective usage of water in agricultural farming".

  ✠ Students of the Department of Civil Engineering applied for provisional registration of patent titled "Innovative Thermal Insulation of Flat Roof using GFRG panel composite" during February 2017.

- University supported the project titled "Affordable housing with GFRG panels using Rapid Wall Construction Technique" at a cost of Rs. 5.50 lakhs. This project was jointly executed by faculty members & students of the Department of Civil Engineering. The project was successfully completed during June 2016. This also resulted in creation of a Start up company by three Civil Engineering students (Batch: 2013-17) in the name "TINCORR Construction Solutions" (website : www.tincorr.com)

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. Enhancement of Project based teaching learning process	- A committee consisting of senior professors of the university was constituted on 14th July 2016 to review the project based learning and restructuring of laboratory courses at various schools. - 30 subjects were offered as Project based learning courses by various departments in the academic year 2016-17.

2.	Thorough revision of curricula and syllabi of all PG programmes and UG programmes incorporating the industry need	• The Regulations, curricula and syllabi of PG programmes were revised as per the recommendation of the respective Board of Studies and Academic Council approved the same. • Amendments have been brought in the B.Tech Regulations 2013 of B.Tech. Programmes. Recommendations of BOS in terms of changes in curriculum, introduction of new general electives etc. were approved in the Academic Council. • Exercise for the complete revision of curricula & syllabi for B.Tech. programmes based on stake holders' feedback and industry need was initiated, deliberated in several forums and curricular frame work was finalized.
3.	Flexible timing to do M.Tech Programme by Industry personnel.	• M.Tech. Programme in flexible mode was approved for all 22 PG programmes to cater to the needs of industry professionals. • 32 industry professionals were benefitted by joining programmes such as M.Tech Construction Engineering and Project Management, M.Tech Structural Engineering, M.Tech Polymer Technology and MBA.
4.	Starting of M.Arch Programme in Crescent School of Architecture	• Proposal to start of M.Arch programme is in process. • Proposal to start B.Des. Programme in Crescent School of Architecture was approved.
5.	Strengthening of Interdisciplinary research work	• Department of ECE along with School of Life Science organised an ICMR Sponsored workshop on "Biomedical Signal Processing and Computational Biology for Healthcare Application" from 12th May 2017 to 16th May 2017. • Department of Civil Engineering along with School of Life Science is working on a project titled "Biological corrosion in RCC Structures".
6.	Enhancement of internship for students in Industry	• All UG Students were encouraged to do summer internship in industries. • Internship in industry/ project was made mandatory for all PG students.

		• Both Summer Internship and Project were made mandatory for MBA students.
• Students were encouraged to take up joint research with research institutes and Industries.
• MOU was signed with M/s Revature, a US based firm for Online Training & Placement on 13th May 2016 for providing internship to students.
7.	Enhancement of Industry Institute collaboration	• An Industry- Institute meet was held on 22nd October 2016.
• More than 211 organizations representing sectors like IT, Manufacturing, Civil, Banking, Healthcare, Instrumentation, Plastic, Marketing, Pharmaceuticals, government organizations like FCCI and MSMEs participated and shared their expectations and expressed their interest for collaboration.
• MOU was signed with M/s Revature, a US based firm who are pioneer in Online Training & Placements for providing internship to students. 82 students were selected for Internship by M/s Revature.
• Signed MoUs with Biozone Research Technologies Pvt. Ltd., Chennai on 7th April 2016, V Clinbio, USA on 8th June 2016, Geomarine Bio Technologies on 24th November 2016, Aaranya biosciences on 24th November 2016, Hi Rise Food Technologies on 24th November 2016, iBig foundation, Chennai on 17th February 2017.
8.	To conduct more skills based programme for placement	• 9 skill based training programmes were organized by the placement cell of the university.
• Companies such as Infosys Technologies, Cognizant Technology Solutions, Barclays, Aspiring Minds Assessment Pvt Ltd , Smart Training Resource Pvt Ltd, Revature Consultancy Services Pvt Ltd, Vista Mind and Mean-Median-Mode Solutions were offered skill based placement training programme for students.
9.	To Strengthen the computer facilities in central library	• 35 new computers were added to the existing number of 36 computers to enlarge the digital library and to induce e-learning culture among the students.

10. Introduction of more general elective courses	• Along with the 21 existing general elective courses for B.Tech, the following 8 new general electives courses were introduced to develop industry ready graduates: Very Large Scale Integration, Network Security, Genetic Engineering, Entrepreneurship Development, Operations Research, Smart Grid, Embedded System and Advanced Materials.
11. Mobilize more grants through funded projects	• 8 funded projects worth Rs.124.37 lakhs were mobilized by the University. • The funding agencies were Tamil Virtual Academy, Anna University Campus, Central Institute of Classical Tamil, Aeronautics Research & Development Board, DRDO, New Delhi, Institution of Engineers, India, New Delhi. • Faculty members and students were encouraged to pursue joint research with research institutes and to submit project proposals to various funding agencies like DST, DBT and AICTE.
12. Increase the number of research publications	• Faculty members and students were motivated to publish quality research papers in refereed Scopus indexed journals by conducting meetings. • A total of 131 research papers in peer reviewed International journals, 116 research papers in National journals, 103 papers in International conference proceedings and 47 papers in National conference proceedings were published. • A research team was formulated to oversee the research activities of the university. • Faculty members were instructed to publish three research papers per year mandatorily.
13. Strengthening peer-assisted learning	• For the benefit of slow learners, peer assisted learning classes were arranged in the hostel for Physics, Chemistry, Maths and Engineering Graphics courses for the 1st year students and Dynamics of Mechanics for 3rd year Mechanical Engineering Students. • A separate slot was allotted for Peer assisted learning in all UG and PG programmes.

14. Participation of all faculties in the overall development of the university to give more visibility to the university	• Faculty members have taken effort to promote Flexi-time PG Programmes of the University. • Faculty members also visited various cities to participate in the education fair to create visibility to the University
15. To introduce the slotted timetable	• Slotted time table with 8 slots were introduced and students were encouraged to do mini projects and peer assisted learning during the free slots.

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 was implemented in all programmes to enhance the learning skill of students.

Best Practice – 2

- Peer assisted learning for slow learners to enhance their learning attitude through their peers

Details are provided in Annexure-III

7.4 Contribution to environmental awareness / protection

- Extreme care was taken to maintain trees and 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 was treated and utilized for Landscaping in the University and Hostels.
- Bio-gas methanisation plant of $100m^3$ capacity was commissioned in February 2015 at a cost of 30Lacs. 1 cylinder of bio-gas per day was utilized for Men's Hostel kitchen. New Bio-gas plant of $50m^3$ capacity for Ladies Hostel was also commissioned.
- LED fixtures – of 20KW capacity was installed in our campus in the past 4 years. At least 30% of power was saved in this.
- Solid Waste Management program – to segregate and recycle organic waste, paper, cartons, paper cups, soft drink tins, plastic, pet bottles, etc.
- To reduce pollution inside campus, 25 bicycles were provided to students for commutation between Men's Hostel and College Main gate.
- Organic vegetable garden farming was done in Men's Hostel and Ladies Hostel.
- Sanitary napkin incinerator with wet scrubber was installed for disposing the napkins in the ladies hostel. Wet scrubber is attached at the outlet of burner fumes where the fumes gets scrubbed in water and gets filtered to remove the harmful emissions.

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 Board of Accreditation (19th – 21st August 2016)

- The team of experts constituted by National Board of Accreditation (NBA) visited B.S. Abdur Rahman University during August 19-21, 2016 to accredit five B.Tech. programs, namely, B.Tech. Civil, B.Tech. ECE, B.Tech. E&I, B.Tech. CSE and B.Tech. IT. All the 5 programmes were granted accreditation for 3 years. This accreditation for the five B.Tech. programme is under the Washington Accord Registry signifying that these accreditations are internationally recognized with substantial equivalence to accreditation bodies like ABET.

National Institutional Ranking Framework MHRD (3rd April 2017)

- B.S. Abdur Rahman University participated in NIRF Ranking 2017 and has secured the following ranks in each category.

  As an Engineering Institution : All India 89 (out of 1007 institutions)
  As a University : All India 100
  As a Management Institution : In the Rank band of 75 – 100 (out of 542 B - Schools)

- In Teaching Learning resources category the University was ranked the 7th best in Tamil Nadu as per NIRF 2017.

Data Quest Ranking 2017

- B.S. Abdur Rahman University ranked 13th in Data Quest Ranking Survey 2017.
- B.S. Abdur Rahman University secured 3rd Rank in Academic Environment, 1st Rank in Infrastructure and overall 7th Rank in South Zone as per Data Quest Ranking 2017.
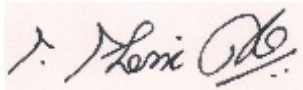
ICT Academy

- ICT Academy recognized B.S. Abdur Rahman University for the best practices adopted in research during their silver Jubilee celebration.

8.0. Plan of Institution for next year:

1. To plan and implement strategies to increase the intake of students during 2017-18.
2. To induct affiliate faculty from foreign universities and industry is to give exposure on global and industry ambience.
3. Set targets to generate funds by each department through consultancy, funded project and joint/collaborative research with industries and foreign universities.
4. To increase the number of research publications in Scopus and Web of Science indexed journals.
5. To enhance International Collaboration to facilitate semester abroad programme, faculty student exchange, student internship and Post Doctoral work for faculty.
6. To encourage faculty and students to register for courses in SWAYAM portals of UGC, NPTEL, Coursera, etc.
7. To encourage research scholars from industries to handle classes to disseminate knowledge on recent trends in industry.
8. To organize more Conferences/ seminars to enrich knowledge of students and faculty members.
9. Enhancement of industry institute interaction through students and faculty internship/project, industrial visits and consultancy and testing services to industry.
10. To establish strong bond with alumni for teaching, improve syllabus content and students' placement.

Name: Dr. M.S. Haji Sheik Mohammed

Signature of the IQAC Coordinator

Name: Dr. Sahol Hamid Bin Abu Bakar

Signature of the IQAC Chairman
For

Date: 08.09.2017

ANNEXURE I – ACADEMIC SCHEDULE AS PER ACADEMIC CALENDAR

B.S. ABDUR RAHMAN UNIVERSITY　　　　27.07.2016
Academic Schedule – for the Academic year 2016-17

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	11.07.2016	-	-	-		
Reopening	01.08.2016	01.08.2016	13.06.2016	09.01.2017		15.12.2016
CAT I	07.09.2016	17.10.2016	16.08.2016	20.02.2017	22.03.2017	19.01.2017
CAT II	17.10.2016	14.11.2016	13.10.2016	22.03.2017	20.04.2017	09.03.2017
CAT III	14.11.2016	-	-	20.04.2017	-	-
Payment of Exam Fees	03.11.2016		03.11.2016	10.04.2017		07.03.2017
Payment of Exam Fees with Fine	10.11.2016		10.11.2016	17.04.2017		14.03.2017
Last Working Day	25.11.2016		18.11.2016	03.05.2017		23.03.2017
Practical Courses - Semester End Exams	26.11.2016		-	04.05.2017		-
Theory Courses – Semester End Exams	05.12.2016		21.11.2016	12.05.2017		24.03.2017
Substitute Exams & Ph.D. Directed Study	20.12.2016		28.11.2016	27.05.2017		31.03.2017
Arrears	23.12.2016		01.12.2016	31.05.2017		04.03.2017
Result Declaration	29.12.2016		13.12.2016	07.06.2017		17.03.2017
Summer Term Courses (STC)	-			15.06.2017		-
STC Exams	-			13.07.2017		-
STC Exams - Result Declaration	-			17.07.2017		-
Reopening Date	09.01.2017		15.12.2016	17.07.2017		-

COE

DEAN (AA) 27/07/2016

REGISTRAR 27/7

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

B.S.Abdur Rahman University, Vandalur, Chennai-48.
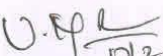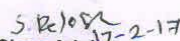
STUDENTS FEEDBACK REPORT
Interim Feedback – Level I

Feedback Date	: 17/02/2017
Class Name & Semester	: B. Tech. (CSE - B) - 2
Total Number Of Students	: 60
Number Of Students Responded	59
Staff Name	: MS.U.MAJITHA PARVEEN
Subject Code & Name	: PHB 1283 & Physics of Engineering Materials

S.No.	Question	Grade Point (1 - 5)
	Level I	
1	Teacher speaks clearly and audibly	4.02
2	Teacher writes and draws legibly	3.98
3	Teacher's pace and level of instruction are suited to the level of students	3.97
4	Teacher uses variety in teaching methods and employs relevant tools	3.98
5	Teacher comes to the class on time and engages regularly	4.10
6	Teacher is able to maintain discipline in the class	3.93
7	Teacher comes well prepared in the course	4.02
8	Teacher Explains concepts well, provides adequate examples	4.02
9	Teacher encourages students questioning and creativity	4.08
10	Teacher had created an interest in the course	4.03

Overall Average for the subject :   4.01

Course Teacher

Class Advisor 17-2-17

HOD/CSE 23/2/17

Generated Through **C@mpIT**

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

B.S.Abdur Rahman University, Vandalur, Chennai-48.
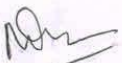
STUDENTS FEEDBACK REPORT

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

Feedback Date	: 13/04/2017
Class Name & Semester	: B. Tech. (CSE - A) - 8
Total Number Of Students	: 8
Number Of Students Responded	8
Staff Name	: Dr. W. AISHA BANU
Subject Code & Name	: CSBX 24 & Information Retrieval

S.No.	Question	Grade Point (1 - 5)
	Evaluation	
1	Teacher selects standard questions covering the stipulated syllabus	4.50
2	Teacher gives variety of assessments like seminars, quiz, and design exercise as assignments and conducts tests	4.50
3	Teacher's evaluation of assignments and tests is fair and impartial	4.50
4	Teacher provides good feedback during evaluation on the performance of the students	4.50
	On presentation skills of the course teacher	
1	Teacher's pace and level of instruction are suited to the level of students	4.50
2	Teacher writes and draws legibly	4.50
3	Teacher speaks clearly and audibly	4.63
4	Teacher uses variety in teaching methods and employs relevant tools	4.50
	On the approach adopted by the course teacher	
1	Teacher is able to maintain discipline in the class	4.50
2	Teacher comes to the class on time and engages regularly	4.50
3	Teacher is courteous and impartial in dealing with students	4.50
4	Teacher offers assistance and counseling to the needy students	4.50
	On the effectiveness of teaching - Learning	
1	Course is organized in logical sequence	4.50
2	Teacher is accessible for clarification of doubts	4.50
3	Teacher covers the syllabus completely and in appropriate time	4.50
4	Teacher had created an interest in the course	4.38
5	Teacher comes well prepared in the course	4.50
6	Teacher encourages students questioning and creativity	4.50

Overall Average for the subject : 4.49

Course Teacher   **Class Advisor**   **HOD/CSE**

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 A (feedback on the Course Teacher) - Level II

Feedback Date	: 13/04/2017
Class Name & Semester	: B. Tech. (CSE - A) - 8
Total Number Of Students	: 8
Number Of Students Responded	8
Staff Name	: Dr. W. AISHA BANU
Subject Code & Name	: CSBX 24 & Information Retrieval

S.No.	Question	Grade Point (1 - 5)
7	Teacher had linked the course to real life engineering and made it interesting	4.38
8	Teacher Explains concepts well, provides adequate examples	4.50

Overall Average for the subject : 4.49

Course Teacher   Class Advisor   HOD/CSE   Course

Generated Through C@mpIT

ANNEXURE II (C) – FEEDBACK FROM OUTGOING STUDENTS

B.S.ABDUR RAHMAN UNIVERSITY

B.S ABDUR RAHMAN INSTITUTE OF SCIENCE & TECHNOLOGY
(Estd.u/s 3 of the UGC Act, 1956)

1

B.S. ADBUR RAHMAN CRESCENT UNIVERSITY,
VANDALUR, CHENNAI-48
DEPARTMENT OF CIVIL ENGINEERING

Exit Survey from Outgoing Students M.Tech CEPM Batch (2015-2017)
(May - 2017)

19.05.2017

1. Assessment of abilities, skills and attributes acquired at B.S.A University.

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems	Well Prepared
Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.	Well Prepared
Design solutions for complex engineering probl ems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.	Well Prepared
Use research – based knowledge and research methods in cluding design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.	Well Prepared
Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and mode lling to complex engineering activities with an understanding of the limitations.	Well Prepared
Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the profess sional engineering practice.	Well Prepared
Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	Well Prepared
Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	Well Prepared
Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	Well Prepared

Communicate effectively on complex engineering activities with the Eng ineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.	Well Prepared
Demonstrate knowledge and understanding of the engi neering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.	Well Prepared
Recognize the need for, and have the preparation and ability to engage in independent and life -long learning in the broadest context of technological change.	Well Prepared
Identify suitable modern construction materials, techniques, practices and equipments considering effective quality and safety management principles.	Well Prepared
Plan, estimate and schedule construction projects using relevant software's for civil engineering construction	Well Prepared
Implement various contract laws and regulations in the construction industry	Well Prepared

2. Assessment of the Learning Environment at B.S.A University

Please indicate your satisfaction with each of the following aspects of your experience at BSA University:

Extremely satisfied - 5,	*Very satisfied - 4,*	*Satisfied - 3,*
Somewhat satisfied - 2,	*Not satisfied - 1,*	*Can't evaluate - 0*

A. Quality of instruction and support for learning provided by the faculty members in:

- Sciences (Mathematics, Physics, Chemistry)	*Very satisfied*
- Computers (Programming and usage of software packages)	*Very satisfied*
- Language (English)	*Very satisfied*
- General Engineering,	*Very satisfied*
- Management	*Very satisfied*
- Economics	*Very satisfied*
- Soft skills	*Very satisfied*

B. Quality of instruction and support for learning given by technicians.

Very satisfied

C. Quality of advice by the staff with respect to:

- Academic planning	*Very satisfied*
- Career planning	*Very satisfied*
- Personal counseling	*Very satisfied*

D. Equity of treatment by:

- Academic administrators	*Very satisfied*	- Faculty	*Very satisfied*
- Technicians	*Very satisfied*	- Fellow students	*Very satisfied*

E. Quality of the facilities:

- Classrooms	*Very satisfied*	- Science laboratories	*Very satisfied*
- Engineering Laboratories	*Very satisfied*	- Computing facilities	*Very satisfied*
- Libraries	*Very satisfied*	- Internet facility	*Very satisfied*

3. Assessment of Support Services

Very good	- 5,	*Good*	- 4,	*Adequate*	- 3,
Poor	- 2,	*Very poor*	- 1,	*No opinion*	- 0

A. Academic Services:

Admissions office	*Good*	Registrar office	*Good*
Controller of Examinations office	*Good*	Placement & Training office	*Good*
Class advisor	*Good*		

B. Administrative Offices:

Administrative Office in your department	*Good*
Administrative office in the University	*Good*

C. Other Services:

Medical facility	*Good*	Canteen	*Good*
Hostel	*Good*	Sports and games	*Good*
Transport	*Good*	Extra-curricular activities	*Good*
Information dissemination	*Good*		

4. Assessment of curriculum offered, schedules and question paper standards

Please indicate your satisfaction with each of the following aspects of your experience at B S A University:

Extremely satisfied	- 5,	*Very satisfied*	- 4,	*Satisfied*	- 3,
Somewhat satisfied	- 2,	*Satisfied with modification*	- 1,	*Not satisfied*	- 0

A. Curriculum:

- Flexibility of the curriculum	*Very satisfied*
- Provides enough skills on design and problem solving techniques	*Very satisfied*
- Encourages self study	*Very satisfied*
- Coverage of cutting edge technology topics in order to face the future	*Very satisfied*
- Coverage of advanced topics to take up career in research	*Very satisfied*
- Promotes intellectual growth	*Very satisfied*
- Enhances our employability	*Very satisfied*
- Availability of books in library to support curriculum	*Very satisfied*

4

B. Internal Assessment Schedules & Question paper

- Promotes analytical thinking   *Very satisfied*
- Question papers in terms of thought provoking and
  bringing out the intellectual capability of students   *Very satisfied*
- Adequacy of time to cope with assessment schedules   *Very satisfied*
- Quality of Evaluation of Assessments   *Very satisfied*
- Flexibility of Enrollment and withdrawal of coursework   *Very satisfied*

C. Teaching Methodology

- Adoption of innovative teaching methodologies   *Very satisfied*
- Coverage of the topics   *Very satisfied*
- Basic concepts taught   *Very satisfied*
- Encouragement for group discussions, seminars
  and interactive discussions   *Very satisfied*

D. To what extent do you feel that your learning objectives have been achieved?

Medium   - Maximum

E. Can you suggest any course that can be removed from the curriculum of your branch?

- Probability and Statistics
- Architecture Design in Urban Planning

F. Can you suggest any course/program that should be included in the curriculum of your branch?

- Estimation Softwares

5. General Assessment

Please answer the following questions:

A. Please list some very important skills that you think you learnt in the Engineering/Science program.

- Presentation Skills
- Team Work and Management

B. Please list some very important or useful skills that you did not get the chance
(or are not available) to learn while taking Engineering / Science courses at B.S.A University.

- Software Training
- Lean Construction

5

C. Please write down any comments or suggestions that you think will improve the Engineering/Science programs at B.S.A University (use additional sheets if necessary).

- More Guest Lectures regarding current affairs

D. Please give the overall strengths and weaknesses of the Institute/Department.

Strength:

- Good Facilities
- Knowledged Staff
- Friendly Environment

Weakness:
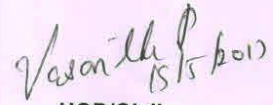
- Liberal
- Number of Systems in PG Lab

E. Do you recommend B.S.Abdur Rahman University for future aspirants and why?

Yes

- Education
- Exposure to research
- Good Environment to learn and Infrastructure
- Good Teaching and Qualified Staff

Class Advisor

HOD/Civil

ANNEXURE II (D) – PARENTS FEEDBACK

B.S.ABDUR RAHMAN CRESCENT UNIVERSITY, CHENNAI – 600 048

SCHOOL OF INFRASTRUCTURE

DEPARTMENT OF CIVIL ENGINEERING

SCHOOL ADVISORY COMMITTEE – 14.06.2017

PARENTS FEEDBACK FORM

Your suggestions on U.G.Programme:

we can be more practically oreinted rather than being more of theroitical.

CURRICULUM & SYLLABUS:

- Give student freedom of selecting their own professional elective so that they wish to study what they want.

- Stress more on GATE syllabus and make students practice GATE Related topic

SIGNATURE   : Mos Hasnain

NAME   : Nur Hasnain Ali Razui

EMAIL ID   : razui hasnain @ gmail. com

PHONE NO : 9551865184

ANNEXURE II (E) – ALUMNI FEEDBACK

Alumni Association
B S Abdur Rahman University

Alumni Feedback

Convocation / Graduation Day 2016

Name of the Alumnus:	M.K. MOHAMMED SHAKIR.				
Course / Degree studied:	B.TECH	Dept. / Branch Studied:	MECH.	Year of Pass out:	2016

Present Employment Details:

Designation:	Production Controller (SCM)
Name & Address of the Company:	NISSAN TRADING INDIA. PVT.LTD
Mobile / Contact:	9092738048
Email:	reachshanam@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:

Provided courses is sufficient

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

Its good environment for learning

Please provide your suggestions to improve the Institutional Development:

Kindly improve the students facilities based on their requirement.

Signature:

ANNEXURE II (F) – EMPLOYER FEEDBACK (PART A)

WIPRO
Applying Thought

Date: 14-06-2016

Subject: Employer Feedback for Accreditations

We have been recruiting good number of students year after year from B.S. Abdur Rahman University and are happy with the kind of infrastructure and training imparted by them to their students. We have found the students to be strong in their domain knowledge, technical know-how, and interpersonal skills which gives them an edge during their project assignments at Wipro. This has helped them excel and progress rapidly to higher levels within the organization as well. We have been highly satisfied with the quality of students we have recruited from B.S. Abdur Rahman University and feel proud to have been in collaboration with them as our Academic Partner over the years.

We have been receiving excellent support from the management as well as the placement cell with regards to the engagement activities we have planned over the years. We would like for this association to bloom further in times to come, adding to our talented global workforce and thus enabling our organization and society to reach greater heights.

Viswanathan Venkata Subramanian

National Head – Engineering Hiring

Wipro Limited.

ANNEXURE II (F) – EMPLOYER FEEDBACK (PART B)

CompanyName User:340879 Submit time:08-06-2016 15:31:33

Cognizant

Cognizant Technology Solutions India Pvt. Ltd.
MEPZ – SPECIAL ECONOMIC ZONE
Plot No.A-15,16,17 (Part), B-20
C-10,C-1 & D-2,National Highways -45,
Tambaram GST Road,
Chennai 600045 Tamilnadu
CIN- U72300TN1994PTC026590
Tel: +91 44 3092 1000
Fax:+ 91 44 3092 1060
Email: cognizantindia@cognizant.com
Website: www.cognizant.com

Sub: Testimonial for NBA Accreditation

Cognizant is proud to be associated with B. S. Abdur Rahman (BSA) University, one of the largest engineering institutions in India offering Engineering, Science and Management programs with emphasis on innovative research, investment in high-quality facilities and first-rate infrastructure.

It is one of the few institutions with all the UG and PG programs approved by AICTE and accredited by the National Board of Accreditation. With such exemplary credibility, this Institution has been upgraded to a University status in a bid to keep the academic progress in pace with industry standards.

Cognizant has, over five years, partnered with BSA University (earlier known as Crescent Engineering College) to attract and on board highly skilled, talented young professionals in the fields of B.Tech, Computer Science, Communications, Aeronautical, Automobile Engineering and more. Students are provided ample opportunities to test their knowledge in real-time situations and taught values that mould their character and make them true leaders.

Cognizant's partnership includes several internship programs through our Cognizant Certified Student Program tests and CIO Challenge competitions. We have also hosted several campus programs including industrial visits, evolve programs, guest lectures and developmental programs.

We are proud to be associated with BSA and believe that the institute is capable of guiding students to become experienced and knowledgeable young corporates.

Srikanth Srinivasan

Senior Director – Human Resources

Cognizant Technology Solutions

Regd. Office: # 5/535, Old Mahabalipuram Road, Okkiam Thoraipakkam, Chennai - 600 096

ANNEXURE III – BEST PRACTICES (1 & 2)

<u>Best Practice - 1</u>

Project based teaching learning adopted for two courses in each semester in all programmes

i)   Objectives of the Practice

- To enhance the learning skill of the students and deep understanding of the course they learn.
- To make the students to understand the course content through application oriented projects.
- To explore real time engineering applications.
- To develop skills among the students to work as a team.
- To provide opportunities to enhance the knowledge through collaborative study.

ii)   The Context

- Through project based learning, students will improve their attitudes towards learning and exhibit their individual talents.
- To understand theoretical concepts through practical work.
- To provide students think critically on problem solving.
- To enhance "Self Learning" instead of "Educator Teaching".
- To enhance the team spirit.
- To obtain hands on experience and to develop interest in learning theoretical course with ease.

iii)   The Practice

- ➤ The teacher taught theoretical knowledge of the course on which the students can do projects with practical applications.
- ➤ Students could plan project along with their teammates.
- ➤ Preparation for 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

- Students understanding level of the course content increased substantially.
- Students interest in undertaking project enhanced.
- Project based teaching learning implemented in two courses in all B.Tech programmes during odd and even semesters of the academic year 2016-17.
- 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 executed by the students were demonstrated in the laboratories and the same 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 of 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 shall 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 mechanism to be strengthened to identify the level of the project as per the syllabus of the course.

__Best Practice - 2__

Peer Assisted learning was initiated and practiced for slow learners in all programmes

i) **Objectives of the Practice**
- To give personal attention to slow learners
- To teach slow learners through their peers
- To create interest in the subject among the slow learners through their friends
- To bring the level of slow learners to a normal student.
- To make them successfully complete the programme along with regular students.

ii) **The Context**
- Through peer assisted learning the slow learners will not feel reluctant to ask questions to their peers.
- The student tutors can teach the subject in the way that their fellow friends can understand
- The slow learners shall learn the subject at their own pace and time
- Slow learners will be given focused attention through peer assisted learning
- The student tutors will gain more subject knowledge while teaching their peers.

iii) **The Practice**
- A separate slot is allotted for peer assisted learning for the courses that students feel difficult to learn.
- Peer assisted learning is also practiced in hostels.
- Academically good students are identified as student tutors by the faculty members.
- These student tutors are given a team of slow learns to teach the required course.
- The student tutors will also take the help of teachers if required.
- The peer learning session is monitored by faculty in the university and Residential tutors / Hostel warders in the hostel.

iv) **Evidence of Success**

- It was observed that slow learners academic performance was found to be improved after the peer learning sessions.
- Academically sound students also showed more interest in learning and teaching.

v) **Problems Encountered and Resources Required**

- Students required more time to be allotted for peer learning session.
- Few student tutors were not showing interest in teaching their friends
- Peer learning sessions for certain theory courses were not taken up by students with utmost seriousness.