

Annual Quality Assurance Report (AQAR)  
2014-15

Submitted to  
National Assessment and Accreditation Council  
Bangalore – 560 072



**Bharathiar University**  
State University  
Coimbatore-641 046  
Re-Accredited with 'A' Grade by NAAC

# **Bharathiar University: Coimbatore – 46**

## **Internal Quality Assurance Cell (IQAC)**

### **The Annual Quality Assurance Report (AQAR) - 2014-15**

#### **Part – A**

#### **I. Details of the Institution**

<b>1.1 Name of the Institution</b>	:	Bharathiar University
<b>1.2 Address Line</b>	:	Maruthamalai Road
<b>City/Town</b>	:	Coimbatore
<b>State</b>	:	Tamil Nadu
<b>Pin Code</b>	:	641046
<b>Institution e-mail address</b>	:	vc@ buc.edu.in, regr@buc.edu.in
<b>Contact Nos</b>	:	+91-422-2428108, 2428111, 2428114, 2422203
<b>Name of the Head of the Institution</b>	:	Dr. G. James Pitchai, Vice - Chancellor
<b>Tel. No. with STD Code</b>	:	091-422-2422387
<b>Mobile</b>	:	+91-9443954777
<b>Name of the IQAC Co-ordinator</b>	:	Dr. B. Vanitha
<b>Mobile</b>	:	+91-98428 17131
<b>IQAC e-mail address</b>	:	naac.buiqac@gmail.com
<b>1.3 NAAC Track ID</b>	:	Yet to be generated
<b>1.4 NAAC Executive Committee No. &amp; Date:</b>	:	EC/52/RAR/106 dated 26-3-2010
<b>1.5 Website address</b>	:	www.b-u.ac.in
<b>Web-link of the AQAR</b>	:	<a href="http://www.b-u.ac.in/AQAR2014-15.doc">http://www. b-u.ac.in/AQAR2014-15.doc</a>



**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	<input type="checkbox"/>
DST Star Scheme	<input type="checkbox"/>
UGC-Special Assistance Programme	<input checked="" type="checkbox"/>
UGC-Innovative PG programmes	<input checked="" type="checkbox"/>
UGC-COP Programmes	<input type="checkbox"/>

State

UGC-CPE	<input type="checkbox"/>
UGC-CE	<input type="checkbox"/>
DST-FIST	<input checked="" type="checkbox"/>

Any other (*Specify*)

- BU – DRDO Centre for Life Sciences

## **2. IQAC Composition and Activities**

2.1 No. of Teachers : 11

2.2 No. of Administrative/Technical staff : 01

2.3 No. of students : 02

2.4 No. of Management representatives : 02

2.5 No. of Alumni : 02

2.6 No. of any other stakeholder and : 01

community representatives

2.7 No. of Employers/ Industrialists : 01

2.8 No. of other External Experts : 03

2.9 Total No. of members : 21

**2.10 No. of IQAC meetings held : 02**

**2.11 No. of meetings with various stakeholders:**

Faculty	<input type="text" value="09"/>	Students	<input type="text" value="04"/>
Non-Teaching Staff	<input type="text" value="02"/>	Alumni	<input type="text" value="01"/>

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

If yes, mention the amount : One time grant of Five Lakhs during the 11<sup>th</sup> Plan

### 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

(ii) Themes

- Quality Enhancement in Teaching and Research
- Promotion of online courses, e-learning and e-content creation
- Graduate Attributes
- Lesson Plan preparation
- Assessment and Accreditation process

### 2.14 Significant Activities and contributions made by IQAC

- IQAC prepared the format for feedback from students on teachers, curriculum and infrastructure.
- The IQAC has also developed an online data collection system for generating department-wise Annual Quality Assurance Report (AQARs). The IQAC then consolidates the information for the submission of AQAR of the University. In addition the following programmes were conducted by IQAC.
- Organized National Workshop on Management of University Administration.
- Provided training to faculty of affiliated colleges to undergo NAAC Assessments and also supported the IQAC cells of affiliated colleges.
- Conducted Workshop to prepare teaching plan by the faculty
- Trained two faculty members from each Department to Open Source Learning through Web Portals like Coursera, Udacity, Open Study, Stanford online varsity and all MOOC courses (Massive open online course) relevant to their department.
- Organized a training programme on Process of Reaccreditation and E-learning
- Conducted three day training for teachers on E-content creation through ASC.
- Conducted training program for non teaching staff on reaccreditation process
- Conducted seminar on Examination Reforms
- Organized seminar on Knowledge Management
- Gave Library user orientation for First year P.G students
- Arranged for Popular Lecture Series
- Conducted Academic Leadership Programme
- Conducted a study on students admission trends for the last four years
- Conducted Academic and Administrative Audit in the various academic and administrative departments.
- Conducted a study in the areas of Academic Achievements and Admission Trends of Post Graduate Students and Research Scholars in the University Departments

- Supported the IQAC cells of affiliated colleges in the conduct of seminars / conferences related to quality enhancement in Higher Education.
- Suggested the University Departments and the affiliated colleges to include one course in each semester to be completed under open source learning as non-credit course for PG students.
- Sensitized about Graduate Attributes to the faculty members.

## 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 \*

<b>Plan of Action: Conduct of Seminars &amp; Conferences on the topics of National interest</b>
<b>Outcome</b>
<p><b>Department of Biotechnology conducted</b></p> <ul style="list-style-type: none"> <li>• National Seminar on “Cyber Crime &amp; Security” on 7/01/2014</li> </ul> <p><b>Department of Microbial Biotechnology conducted</b></p> <ul style="list-style-type: none"> <li>• One day National seminar on ‘Bioprospecting for today’s world’ January 8, 2014</li> </ul> <p><b>Department of Commerce conducted</b></p> <ul style="list-style-type: none"> <li>• International Symposium on <b>Research Innovation for Quality Improvement in Higher Education SPSS Applications in Business Research</b> during 6<sup>th</sup> &amp; 7<sup>th</sup> March, 2015</li> </ul> <p><b>Department of Economics conducted</b></p> <ul style="list-style-type: none"> <li>• UGC sponsored Two day national seminar on <b>Inclusive Growth in India: Issues and Challenges</b> on 17<sup>th</sup> &amp; 18<sup>th</sup> March 2014</li> </ul> <p><b>Department of Econometrics conducted</b></p> <ul style="list-style-type: none"> <li>• Application of Econometric Techniques in Empirical Research on 26&amp;27 February 2014</li> </ul> <p><b>Department of Education conducted</b></p> <ul style="list-style-type: none"> <li>• National Seminar on Teacher Education towards Preparing Professional and Humane Teachers’ during 08.03.2014 and 04.03.2014..</li> </ul> <p><b>Department of Communication &amp; Media Studies conducted</b></p> <ul style="list-style-type: none"> <li>• National Conference – topic “Digital Cultures: Intersections of Tradition and Modernity” 7<sup>th</sup> and 8<sup>th</sup> February, 2014</li> </ul> <p><b>Department of Physical Education conducted</b></p> <ul style="list-style-type: none"> <li>• UGC sponsored National Seminar on Women Sports Participation in India in 2014</li> </ul> <p><b>Department of Linguistics conducted</b></p> <ul style="list-style-type: none"> <li>• National Seminar on Science Tamil, during 08.01.2014 to 09.01.2014</li> <li>• International Conference on Soft Skills during 19.01.2014 to 21.01.2014</li> </ul>

**Department of English and Other Foreign Languages conducted**

- UGC sponsored National conference on “Post colonial perspectives in language and Literature” on 31.01.2014
- International Conference on “Culture through Language and Literature” on 6<sup>th</sup> and 7<sup>th</sup> February 2015

**Department of Bio Informatics conducted**

- MOTIF’15 – National Seminar on Bioinformatics and Biopharmaceuticals – NSBS on 03.03.2015

**Department of Environmental Sciences conducted**

- National seminar on Biodiversity and conservation on 30.3.2015
- National seminar on “Water resources and sustainable development” on 23.03.2015
- National conference on Ecotechnologies for Wastewater Treatment: Present Challenges and Future Horizons during 20.1.2014 – 21.1.2014

**Department of Nanoscience & Technology conducted**

- Seminar on Expanding Horizons in Nanoscience on February 28, 2014

**Department of Physics conducted**

- National Conference on Advanced Functional Materials (NCAFM) during 30<sup>th</sup> – 31<sup>st</sup> January 2014

**Department of Social Work conducted**

- State level conference of prevention of child abuse and challenges on 19, 20 Aug 2014

**Department of Sociology and Population Studies conducted**

- National level UGC Sponsored National Seminar on “Social Exclusion and Inclusion in India: Perspectives and Challenges” 13<sup>th</sup> - 14<sup>th</sup> February 2014
- National level UGC Sponsored National Seminar on Ageing and Elderly Persons in India: Perspectives and Challenges 5<sup>th</sup> - 6<sup>th</sup> March 2014

**Department of Women’s Studies conducted**

- National Seminar on Matrimonial Property Rights on 24.03.2015 25.03.2015
- National level seminar on Women and Leadership on 3.3.2014

**Department of Tamil conducted**

- National seminar on Medieval Literature on 04-01-2015 to 06-01-2015

**Department of Applied Mathematics conducted**

- National Conference on Advances in Applied Mathematics on 25.2.14
- National Conference on Advances in Applied Mathematics on 12-13.2.15

**Department of Statistics conducted**

- National Conference on Advances in Statistics Theory, Modeling And Applications (NCASTMA) on 27-28.03. 2014

**Department of Psychology conducted**

- UGC Sponsored National Conference on Enhancing Psychological Well Being (NCEPW2014) on 20-21 February 2014

**Department of Biotechnology conducted**

- National Seminar on “Cyber Crime & Security” on 7/01/2014

**Department of Botany conducted**

- “*Emerging Trends in Biodiversity Conservation and Sustainable Utilization (NSBCS)*” during 29<sup>th</sup> & 30<sup>th</sup>, January, 2014

**Plan of Action: Conduct of Staff Training Programme****Outcome****Bharathiar School of Management and Entrepreneur Development conducted**

- UGC Sponsored Work shop on ‘Educational leadership’ was held on 28<sup>th</sup> and 29<sup>th</sup> January 2014.
- UGC sponsored Refresher Course in Management (21 days) was Co-ordinated along with UGC-ASC, Bharathiar University held from 6<sup>th</sup> November 2014 to 26<sup>th</sup>, November 2014.

**Department of Biotechnology conducted**

- Workshop on “Plant Molecular“ Farming” on 13th & 14th Mar 2014

**Department of Commerce conducted**

- Data Analysis in Business Research during 19<sup>th</sup> & 20<sup>th</sup> February, 2014..

**Department of Economics conducted**

- University sponsored Three day workshop on “Quantitative Social Research Methods” on 9<sup>th</sup>, 10<sup>th</sup> & 11<sup>th</sup> March 2015.

**Department of Econometrics conducted**

- Application of Econometric Techniques in Empirical Research on 26&27 February 2014

**Department of Education conducted**

- National Workshop on “Two Year M.Ed. Curriculum Framework” during 27.03.2015 and 28.03.2015..

**Department of Linguistics conducted**

- Orientation cum Workshop on Testing and Evaluation for Language Teachers Working in Middle School during 20.01.2015 to 24.01.2015

**Department of Nanoscience & Technology conducted**

- Short Term Training Course on Immobilization of Enzymes with Nanomaterials for Industrial Applications on September 8 – October 1, 2014
- Two Days Training Course on Nanolab on December 4-5, 2014

**Department of Electronics and Instrumentation conducted**

- National workshop on “Recent trends in Electronics and Instrumentation” conducted two days from 28.02.2014 to 01.03.2014
- National Training Program on “Recent trends in Solar Photovoltaic Systems” conducted from 28.01.2015 to 29.01.2015

**Department of Social Work conducted**

- International workshop on Enhancing the quality of Field Work Practice in India with international perspectives on 9 Jan 2014
- Strengthening inclusive practices for mainstreaming person with disabilities in higher education and work place on 27,28 Feb 2014
- State level Yatra to Campaign for the eradication of Bonded labour system on 8 Oct 2014
- Workshop on qualitative research in social sciences on 17, 18 Oct 2014
- Orientation of school social work fieldwork on 22, 23 Dec 2014

**Department of Sociology and Population Studies conducted**

- National level workshop on Social Sciences Research Methodology and Use of SPSS Software January 6-10, 2014
- National level workshop on Social Sciences Research Methodology and Use of SPSS Software, May 05-09, 2014

**Department of Women’s Studies conducted**

- Faculty Development Programme on 15.04.2015
- Workshop on “Status of Women’s Studies in India” on 22.11.14
- Workshop on “Impact of Indian Social Values towards women education, independence and empowerment” on 8.10. 2014
- Refresher Course on Human Rights on 20.08.2014 to 09.09.2014

**Department of Chemistry conducted**

- Workshop “X-ray Crystallography and its Applications (WXRCA-2014) sponsored by UGC (XII Plan) on 5<sup>th</sup> and 6<sup>th</sup> of March 2014

**Department of Mathematics conducted**

- National Special Lecture Series, Quasi-Linear partial Differential Equation in Fluid Dynamics and Physics on June 30-July 11, 2014.

**Department of Statistics conducted**

- National workshop on Applications of statistical software(NWASS-2014) on 21-22.08. 2014
- Workshop on data dissemination census - 2011 (DDC 2011) August-2014

**Department of Biotechnology conducted**

- Workshop on “Plant Molecular“ Farming” on 13th & 14th Mar 2014

**Plan of Action: Activities for enhancing Placement and skill development of the students**

**Outcome**

- www.careersity.com is a Learning Portal for Career Aspiring Students.
- www.civilservicecoach.com is useful for civil service aspirants.
- Anna Centenary Civil Services Coaching Academy is functioning at the University to coach the aspirants for civil services exams.
- University has signed MoU with TCS, HCL, UTL Technologies, IIT Bombay and Infosys for preparation of industry required curriculum and faculty training.
- Soft skill training programmes are also given at the department level.
- The use of English language laboratories is encouraged with the intention of improving the language skills of the students.
- Finishing schools were organized by the Department of Extension, Career Guidance and Students Welfare under which so far seven programmes were organized for 1240 students and 05 programmes were organized benefiting 242 teachers.
- Under affirmative programmes for SC / ST minorities and economically weaker sections of students 17 events were organized for 1050 students and 221 were selected for placement.
- BSMED has association with several bodies such as NEN (National Entrepreneurial Network), YI (Young Indians) through which students are trained with other extra-curricular activities.
- BSMED organizes every year its flagship event Axis, which is a seminar conducted in other cities like Chennai, Bangalore and Cochin. In Axis students are exposed to other developed metropolitan cities through interaction with the eminent industrialists of those cities who are invited for delivering lectures and one day is exclusively provided for Industrial Visits.

**2.15 Whether the AQAR was placed in statutory body**

Yes  No

Management  Syndicate  Any other body

**Provide the details of the action taken**

AQAR is prepared based on the details collected from the University departments. The completed report was placed before the Syndicate for perusal.

## Part – B

### Criterion – I

#### I. 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
Ph.D.	36	0	0	0
PG	43**	01	04	10
UG	02*	0	22*** + 105****	0
PG Diploma	05	0	16*** + 40****	01
Advanced Diploma	0	0	09***	0
Diploma	0	0	24*** + 09****	0
Certificate	0	0	07*** + 06****	0
School Certificate	0	0	06***	0
<b>Total</b>	<b>86</b>	<b>01</b>	<b>348</b>	<b>11</b>
Interdisciplinary	07			
Innovative	01 (Textiles & Apparel Design)			

\* B.Voc. Bachelor of Vocation is to be offered from the Academic Year 2015-16 onwards

(i) Business Process Service & Data Analytics

(ii) Multimedia & Animation

\*\* M.Sc. Bio-Chemistry and M.A. History are to be introduced from 2015-16 onwards

\*\*\* Centre for Collaboration for Industry and Institution

\*\*\*\* Centre for Participatory and Online Programme

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

- Choice Based Credit System is introduced in the University since 2000- 2001.
- Each department offers a minimum of four core papers per semester ( in some departments five or six core papers are offered per semester)
- The option for selecting Elective papers are available for students for first three semesters for two year PG program and for first five semesters in the case of three year PG program (MCA). Each department offers a Minimum of two Elective papers (in some departments even four papers are offered) out of which the students have the option of selecting one paper per semester. In total there are around 180 Elective papers offered by all the departments.
- Besides each department offers one supportive paper per semester for three semesters for the students from other departments. The graduates of Bharathiar University have the option of selecting supportive course from a pool of 94 papers.
- Project work at PG level is mandatory for the all the programs in the 4<sup>th</sup> or 6<sup>th</sup> semester. Roughly, around 35% of the students take a project work in industry and other institutions. In some departments field visits and institutional training are part of their curriculum.

- Credit transfer is permitted between distance mode of learning to regular mode and vice-versa.

**(ii) Pattern of programmes:**

Pattern	Number of programmes
Semester	All PG Programmes (41)
Trimester	-
Annual	Programmes offered under CCII and CPOP

**1.3 Feedback from stakeholders (*On all aspects*)**

Alumni  Parents  Employers  Students

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

**Consolidated Report of the Student Feedback on Teachers  
Collected Semester-Wise for University Departments**

S.No.	Rating factors	Mean Score	Rank
1	Preparation for the class	4.32	1
2	Punctuality in conducting class	3.72	6
3	Planning and completion of the syllabus on time	4.01	3
4	Clarity of Presentation	4.12	2
5	Quality of language	3.92	4
6	Quality of voice	3.81	5
7	Methodology used to impart the knowledge (Use of blackboard, Charts, teaching aids,)	3.50	7
8	Active learning methodology used like Group discussion, Tutorials, Assignments and Seminars, Field visit, Quiz etc	3.05	10
9	Availability to students outside class hours for clarification, Counselling, Career guidance, etc.	3.35	8
10	His / Her role as a Mentor / Motivator / Guide / Facilitator / Counsellor	3.29	9

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

- In the of Standing Committee of Academic Affairs meeting held on 29.04.2015 along with the revision and update of syllabi emphasis is given on self learning through open sources. In this regard it was made mandatory for the post graduate students to take minimum of two self learning courses through open line sources. They are non credit courses left to the choice of the students
- For the first time Bachelor of Vocation Courses at under graduate level was introduced in the University. Under this two courses namely
  - Business Process Service & Data Analytics
  - Multimedia & Animation
- The curriculum gives emphasis on major projects where students are expected to develop a real-time industrial applications/ module required for the industry. Hence students are exposed to industrial environment.
- Case studies are included in the syllabus so that students are involved in the learning process and this would make learning effective
- Application of Current technology is emphasised in few departments

**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. Professors	Associate Professors	Professors	Others
171	101	16	54	03 (Prof emeritus)

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

152
-----

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

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
116	26	35	11	20	08	-	-	171	45

#### 2.4 No. of Guest and Visiting faculty and Temporary faculty

Guest faculty	Visiting faculty	Temporary faculty
41	20	07

#### 2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	68	92	07
Presented papers	71	113	05
Resource Persons	29	78	23

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

- Enhanced usage of language laboratory in teaching and learning
- Inclusion of Spoken Tutorial video lectures in syllabi
- Increased access to latest knowledge through the library and on-line subscribed books and journals.
- Need based institutional visits and field trips are also introduced.
- Induction program in the first week of the reopening of the University to introduce the students about various facilities availability of optional and elective papers for their choice and availability of various forums and clubs for their extracurricular activities is also undertaken.
- imparting and offering practical job oriented educational courses through Centre for Collaboration of Industry and Institutions (CCII)
- Special coaching for NET/ SLET exams
- Viva-voce exams conducted by the faculty in the subjects concern at the end of the semester

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

- 191 (one hundred and ninety one)

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

- Ph.D. scholars can use the online facility available through the University's website to check the status of their Ph.D. thesis.  
Online fee payment facility was initiated which helped the students pay the course fees and exam fee without any hustle.
- Entrance exams for M.Phil. in Management are conducted using a software in the computer lab of the School of Entrepreneurship and Management.
- Examinations are monitored online.
- CCD cameras are used to monitor the conduct of examinations.
- Photocopies of answer scripts are given to students on request and on payment of a nominal fee.
- It is mandatory for the Ph.D. scholars to present the progress of the research work in the annual doctoral committee meetings for review

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

- All the teachers with the teaching experience of more than 5 years

## 2.10 Average percentage of attendance of students: 95%

## 2.11 Course/Programme wise distribution of pass percentage:

Title of the Program	Total No. of Students Appeared	First Class Exemplary	First Class Distinction	First Class	Second Class	Pass %
Master of Computer Applications	56		38.18	61.82	-	98.21
M.Sc. Mathematics (C.A.)	41	12.20	73.17	14.63	-	100.00
M.Sc. Bioinformatics	10		60.00	40.00	-	100.00
M.Sc. Biotechnology	23		18.18	81.82	-	95.65
M.Sc. Botany	19		89.47	10.53	-	100.00
M.Sc. Chemistry	26		10.53	89.47	-	73.08
Master of Journalism & Mass Communication (M.J.M.C)	23		12.50	81.25	6.25	69.57
M.Com. Finance & Computer Applns.	23		43.48	56.52	-	100.00
M.Com. Finance and Accounting	24		13.64	86.36	-	91.67
M.Sc. Computer Science	39		43.24	56.76	-	94.87
M.Sc. Information Technology	31		38.71	61.29	-	100.00

M.A. Economics	31		13.79	86.21	-	93.55
M.Sc. Econometrics	15		13.33	86.67	-	100.00
M.Sc. Electronics & Instrumentation	24		45.83	54.17	-	100.00
M.A. English Literature	40		32.50	67.50	-	100.00
M.Sc. Environmental Sciences	19		26.32	73.68	-	100.00
M.A. Linguistics	03		66.67	33.33	-	100.00
M.Sc. Mathematics	42	2.63	63.16	34.21	-	90.48
M.B.A.	52		-	90.70	9.30	82.69
M.B.A. SS	50		-	86.67	13.33	60.00
M.Sc. Industrial Biotechnology	18		11.76	88.24	-	94.44
M.Sc. Nanoscience & Technology	19		47.37	52.63	-	100.00
Master of Physical Education	37		16.22	83.78	-	100.00
M.Sc. Physics	18		61.11	38.89	-	100.00
M.Sc. Applied Psychology	35		5.71	94.29	-	100.00
M.Sc. Statistics with C.A.	6		-	100.00	-	100.00
M.Sc. Statistics	13		30.00	70.00	-	76.92
Master of Social Work	37		3.70	92.59	3.70	72.97
M.A. Tamilology	26		62.50	37.50	-	92.31
M.Sc. Textiles and Apparel Design	16		75.00	25.00	-	100.00
M.A. Women's Studies	02		-	100.00	-	100.00
M.Sc. Zoology	24		56.52	43.48	-	95.83

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

There are CBCS committees at the University level & the Departmental level. The IQAC through these committees review the course content, teaching methods, completion of syllabus and assessment methods and provide regular feedback to respective Board of Studies.

## 2.13 Initiatives undertaken towards faculty development

Academic Staff Development Programmes	No. of Programmes	Number of Faculty Benefitted
Refresher Courses	14	53
HRD programmes	02	51
Orientation Programmes	05	32
Staff training conducted by the University	03	147
Summer/ Winter Schools, workshops etc.	02	53
IQAC initiated faculty development programmes	10	72

## 2.14 Details of Administrative and Technical staff

<b>Category</b>	<b>Number of Permanent Employees</b>	<b>Number of Vacant Positions</b>	<b>Number of permanent positions filled during the Year</b>	<b>Number of positions filled temporarily</b>
Administrative Staff	390	123	04	Nil
Technical Staff	90	47	Nil	Nil

## Criterion – III

### 3. Research, Consultancy and Extension

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

- Interaction programme for Ph.D. Scholars
- Conducted programmes on Research Methodology & Open Source Tools
- Increased the staff strength to speed up the Ph.D. evaluation section
- Doctoral Review Committee meetings are made mandatory for Research Scholars
- For foreign scholars, the Review is done through video conferencing

#### 3.2 Details regarding major projects

	Ongoing	Sanctioned
Number	95	33
Outlay in ₹ Lakhs	₹ 1547 Lakhs	₹ 494.25 Lakhs

Sl. No.	Name of the Principle Investigator	Name of the funding Agency	Title of the Project	Fund Sanctioned in Lakhs	Duration
<b>Department of Bio-Technology</b>					
1	Dr. V. VijayaPadma	DST	Chemosensitizing effect of neferine on cisplatin sensitive and resistant human Lung, Liver and Colon cancer cells in vitro and in vivo models	52.99	2014-2017
2	Dr. J. Mathivanan	Bharathiar University	Generation of BoxB-RNA tethering system to study gene regulatory noncoding RNAs	1.00	2014
3	Dr. R. Sathishkumar	The Himalaya Drug Company	To DNA Barcode 50 medicinal plants	5.50	2014-2015
4	Dr. R. Sathishkumar	UGC-UKIERI-III	<i>In Vivo</i> and <i>In Vitro</i> Studies of Plant Expressed Recombinant Antigens and Antibodies Against Chikungunya Virus	9.62	2015-2016
<b>Department of Chemistry</b>					
5	Dr. P.S. Mohan	DRDO	Synthesis of New Fluorescent Probes for Biological Applications.	26.11	2014-2017
<b>Department of Commerce</b>					
6	Dr.M.Jegadeeshwaran	UGC	Role of India Post in Financial Inclusion in Tamilnadu (MRP)	6.95	2014-2017
<b>Department of Computer Application</b>					
<b>Department of Economics</b>					
7	Dr. S. Boopathi	UGC	Socio-Economic, environmental impact of Indoor air pollution on Tribal households: A case evidence from the Nilgiris District of Tamil Nadu	6.24	2015-2018

8	Dr. P.S. Shanmugam	BU	Livelihood Strategies among the Irula Tribes of Siruvani hills in Coimbatore District	1.00	2015-2015
<b>Department of Econometrics</b>					
9	Dr. A. Sangamithra	ICSSR	Treatment seeking behavior, source of finance and cost incurred for the treatment among married infertile women in Coimbatore, Tamil Nadu	8.00	2015-2017
<b>Department of Extension, Career Guidance</b>					
10	Dr. A. Vimala	UGC	Impact of Stress on Work Life Balance	6.92	2014-2016
11	Dr. A. Vimala	UGC	Life Skill for Self Development	1.00	2015-2015
<b>Department of Linguistics</b>					
12	Dr. T. Muthukrishnan	UGC (Innovative Research)	“Exploring e-English of the Under graduated Students of B.U. and Completing dictionary for e-English”	0.50	2015
13	Dr. V.M. Subramanian		“ A study on the Creative writing skills of Bharathiar University constituent college students”	0.50	2015
<b>Department of English</b>					
14	Dr. R. Saravana Selvan	UGC	Enhancing the Soft Skills of the Post Graduate Students of English Literature for better Employment	1.00	2015
<b>Department of Bioinformatics</b>					
15	Dr. N.Jayakumar.	DRDO	Data Mining of High Altitude Diseases, DRDO	20.00	2014-2017
<b>Department of Botany</b>					
16	Dr. T. Parimelazhagan Associate Professor	DRDO-BUCLS	Development of Nutraceutical from underutilized seed embryo of Palmyrah	25.30	2014-2017
17	Dr. T. Muthukumar Assistant Professor	DBT	Indo-Swiss collaboration in Biotechnology project on Biofertilization and Bioirrigation for sustainable mixed cropping of Pigeon pea and Finger Millet	69.00	2014-2017
<b>Department of Zoology</b>					
18	Dr. P. Saravanabhavan	DST	DNA BAR coding in fresh water prawn species of the genus macrobrachium	41.06	2014-2016
19	Dr. C. Gunasegaran	UGC	Impact of climate change on terrestrial invertebrates in protected areas of Nilgiri Biosphere reserve, South India	4.31	2014-2016
20	Dr. P. Sundarraj	UGC	Nematode Diversity with respect to flora distribution at Marudamalai in Tamilnadu.	13.80	2014-2016
21	Dr. K. Murugan	DST	A green protocol for Synthesis Nanopesticides for Sustainable management of Crop pests and Vector Mosquitoes	12.00	2014-2016

22	Dr. M. Ramesh	DRDO	Cytotoxicity and genotoxicity studies of toxicants and nanoparticles using Zebra Fish genotoxicity studis of toxicants and nananop	20.20	2014-2017
<b>Department of Mathematics</b>					
23	Dr. R. Rakkiyappan	DST SERB	Delay Differential Models in immunology and Infectino diseases in an individual	13.68	2014-2017
<b>Department of NanoScience and Technology</b>					
24	Dr R. T. Rajendra Kumar	DRDO-BU CLS [National]	Development of carbon based nanostructures for nano biosensors	25.50	2014-2017
25	Ms P. Premasudha	DRDO-BU CLS [National]	Isolation, Charecterization, Application of Pigment from Microorganisms	14.90	2014-2017
<b>Department of Physics</b>					
26	Dr. P. Kolandaivel	DRDO	Structure, stability and molecular dynamics study of Bio-nanotubes	30.00	2014-2017
27	Dr. K. Srinivasan	DRDO	Development of deuterated and L-Alanine doped TGS Single Crystals for Uncooled Pyroelectric Infrared Detector Applications	25.20	2014-2017
28	Dr. D. Nataraj	DRDO BU- CLS	Design and fabrication of metal oxide (Fe <sub>2</sub> O <sub>3</sub> , La FeO <sub>3</sub> and LaSrFeO <sub>3</sub> ) hybrid transtructure based prototype gas sensor device to detect the trace amount of CO and CO <sub>2</sub>	24.28	2014-2017
29	Dr. D. Nataraj	DST – SERI	Development of Hot – electron Harvesting ducronturn dot (CdTe, CdTe / Zns, CdTe / Cds) Based solar cell device for Efficient Energy Conversions Application		2015-2018
<b>Department of Psychology</b>					
30	Dr. S. Subramanian	ICSSR	Integrated Intervention for Eliminating Psychological Resources among Nurses Treating HIV?AIDS and Cancer Patients: An experiment	7.00	2014-2015
31	Dr. A. Velayudhan	UGC	“Skill Streaming: Social Skills Intervention among Rural Adolescents”	7.40	2015-2017
32	Dr. A. Velayudhan	ICSSR	Effectiveness of Integrated Training for Learning Disabled Children	6.50	2014-2015
33	Dr. N. Annalakshmi	NCERT	Effect of Therapeutic Story making Intervention on Reading Skills and Academic resilience	6.63	2015-2017

**3.3 Details regarding minor projects** : Six Projects worth ₹ 5.00 Lakhs

**3.4 Details on research publications**

	Web of Science	Scopus	Total
Peer Review Journals	569	126	695
Conference proceedings	92		92

**3.5 Details on Impact factor of publications:**

Range: 0.65 to 6.66      Average: 2.88      h-index: 2-30      Scopus: 126

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

Nature of the Project	Ongoing	Completed	Total	Sanctioned 2014-2015	Name of the funding Agency
Major projects, Interdisciplinary Projects	95	109	204	33	DBT,ICMR,UGC,DST, CSIR,NBHM,DRFST,N CERT,DST-SERB,DST-SERI, DRDO-BU-CLS, DST Nano Mission, DBT Bio-Care, UKIERI, DAE-BRNS, UGC-DAE, ICSSR, CMA, Govt. of Tamilnadu
Total grant sanctioned	₹ 1547.00 Lakhs	₹ 1439.53 Lakhs	₹ 2986.53 Lakhs	₹ 494.25 Lakhs	

**3.7 No. of books published:** 27      **Chapters in Edited Books:** 112

**3.8 No. of University Departments receiving funds from**

UGC-SAP : 08      UGC-BSR : 03      DBT : 09  
 DST-PURSE : 05      DST-FIST : 06      INSPIRE : 06

Seven more departments are shortlisted for UGC-SAP interface meeting

**3.9 For colleges** : Not Applicable

### 3.10 Revenue generated through consultancy:

S.No.	Department	Nature of Consultancy	Organization Benefited
1.	Botany	Biodiversity survey and Environmental impact assessment	Rio Tinto Exploration India Pvt. Ltd
		Development of indigenous animal feed for poultry farms to substitute the imported feed	Suguna Poultry, Coimbatore
2.	Applied Mathematics	Solved issues related to data use & Interpolation models	TCS, Chennai
3.	Commerce	Project Consultancy on Consumer Issues	Indian Institute of Public Administration, Ministry of Consumer Affairs, New Delhi
4.	IQAC Cell	Digitalization of the process of Assessment & Accreditation of the Higher Educational Institutions	TCS, Chennai
5.	Economics	1. Preparation of Human Development Index	Directorate of Municipal Administration, Chennai
		2. "Changes in the Socio-Economic Conditions of Fisher Folk Households - A Study on Impact of Vocational Training	GoMBRT" (Gulf of Mannar Biosphere Reserve Trust – A Registered Trust of Government of Tamilnadu)
6.	Nanoscience & Technology	Faculty members offer research consultancy and spare the prepared Nanomaterials for researchers working in Nanoscience. Assist in-house project for M. Sc. and M. Tech. students from other institutions.	Research Scholars, Scientists, M. Sc., M. Tech. Students
7.	Physics	Development of plasma arc technologies for materials processing and waste treatment.	(1)M/S Ion Arc Technologies Ltd, Coimbatore (2)M/S Vedicore Pvt. Ltd, Australia (3)M/s Jyoti Om chemical Researc centre Pvt.Ltd, Ankleshwas, Gujarat
8.	Biotechnology	DNA Barcode 50 medicinal plants	Himalayan Drug Company, Bangalore

### 3.11 No. of conferences organized by the Institution:

Level	International	National	State	University
Number of Conferences	03	24	02	05
Sponsoring agencies	University & Self Generated, UGC, DST, DAE, DRDO			

**3.12 No. of faculty served as experts, chairpersons or resource persons :** 47

**3.13 No. of collaborations:**

**National:**

1. Dr. R. T. Rajendra Kumar, Department of Nanoscience and Technology has collaborated with Dr. K. Asokan, Inter University Accelerator Centre and executed the project on Swift Heavy Ions to Improve the Structural and Magnetic Properties of Materials (₹ 6.05 Lakhs).
2. Dr N. Ponpandian, Department of Nanoscience and Technology has collaborated with Dr M. Manivel Raja, Scientist, Defence Metallurgical Research Laboratory , Hyderabad and executed the DRDO ER & IPR Sponsored project on Magnetic Materials for Magnetic Refrigeration (₹ 23.84 Lakhs).
3. Dr R. Kalai Selvan, Department of Physics has collaborated with Dr Melo, Department of Atomic Energy, Government of India, Mumbai and executed the project on Cost effective Electrode materials for Supercapacitors (₹ 19 Lakhs).
4. Dr R. T. Rajendra Kumar, Department of Nanoscience and Technology has collaborated with Dr K. P. Vijaya Kumar, CUSAT, Cochin and executed the project on Fabrication of ZnO Nanorods/Polymer Hetero-Junction for Solar Cell Applications (₹ 30 Lakhs).
5. Dr N. Ponpandian, Department of Nanoscience and Technology has collaborated with Dr S. Amirthapandian, Scientist, Indira Gandhi centre for Atomic Research, Kalpakkam and executed the UGC – CSR Sponsored project on Exchange Spring Magnets (₹ 7 Lakhs).

**International**

1. Dr R. T. Rajendra Kumar, Department of Nanoscience and Technology has collaborated with Dr Enda Mcgylan, Dublin City University, Ireland and executed the project on Charge Transfer Aspects of NANOLED (₹ 5 Lakhs).
2. Dr C. S. Sureka, Department of Physics, has been invited by Dr Reinhard Schulte, Lomalinda University Medical Centre, California USA in the year 2012.
3. A project entitled "Bio fertilization and Bio irrigation for sustainable mixed cropping of pigeon pea and finger millet" is sanctioned to Dr.T. Muthukumar by ISCB, Indo Swiss Collaboration in Biotechnology, Project Duration : 21.10.14 - 20.10.17 Fund allotted (₹ 69 Lakhs)
4. Dr. K. Murugan, with Dr. Donlad R Barnard, under CREST AWARD from Department of Biotechnology, Government of India, New Delhi to work at USDA-ARS-CMAVE, USA for three months from May, 2011 to August, 2011.
5. Dr. R. Sathishkumar & Dr. Julian K.C. Ma. of St. George University of London under UKERI are developing plant based recombinant vaccine against Chikungunya viral infection
6. Dr. P. Kolandaivel has operated collaborative project under DST(India) and DFG(Germany) on Charge Transport in Polypeptides with University of Munich, Germany (₹ 10 Lakhs)
7. Dr. P. Siddhuraju has collaborated with Jatropower AG, Switzerland and worked on Biochemical evaluation, biofunctional prospecting, assessment of genetic basis of variability and characterization of genetic markers of diverse germplasm of *Jatropha curcas* including a collection from different agroclimatic regions of South India (₹ 8 Lakhs)

8. Dr. P. Siddhuraju has collaborated with Alexander von Humboldt (AvH) Foundation, Bonn, Germany and worked on Studies on nutritional evaluation of differentially processed certain underutilized legumes as alternative food and feed sources through in vitro and in vivo experiments (₹ 12 Lakhs)

### 3.14 No. of linkages created during this year:

Industry with which linkage established	Outcome of linkage
Suguna Poultry farm, Pvt Ltd., Coimbatore.	The development of feed supplements for improvement of poultry
Parry Agro Industries Ltd. Valparai	disease forecasting for Tea plantations
Himalaya Drug Company	Development of DNA Bar codes for Herbal Products
CIFT, Cochin	Effect of EPA on TCDD/Dioxin induced toxicity in rats.
SITRA, Coimbatore	Medical textiles
The Himalaya Drug Company, Bengaluru	DNA Barcoding of medicinal plants
IMTECH, Chandigarh	Microbial Taxonomy and Bacterial diversity
Aravind Eye hospital & Post Graduate institute of Ophthalmology, Coimbatore	PCR diagnosis of Post Operative Edophthalmitis
Madras Diabetes Research foundation, Chennai, TN.	DNA sequencing
M/s SJK Industries Pvt. Ltd., India	Development of Bio-products with anti cancer properties
Alexander von Humboldt (AvH) Foundation, Bonn, Germany	Studies on nutritional evaluation of differentially processed certain underutilized legumes as alternative food and feed sources through in vitro and in vivo experiments
Jatropower AG, Switzerland	Biochemical evaluation, biofunctional prospecting, assessment of genetic basis of variability and characterization of genetic markers of diverse germplasm of <i>Jatropha curcas</i> including a collection from different agroclimatic regions of South India

### 3.15 Total budget for research for current year:

**From Funding agency and UGC by way of major research projects:** ₹ 494.25 Lakhs

**From Management of University** : ₹ 405.30 Lakhs

**Total** : ₹ 899.55 Lakhs

2014-15 (Amt in Lakhs)	URF	Equip	Chem	Maint	Total
	35.55	270.05	76.30	23.40	₹ 405.30
	(9%)	(67%)	(19%)	(6%)	

**3.16 No. of patents received this year** : Nil, however following patents are filed in the India office

<b>Dept of Textiles &amp; Apparel Design</b>		
<b>S.No</b>	<b>Patent</b>	<b>Year</b>
1	Sansevieria stuckyi fibres and yarns ( <b>Dr. Sangeetha Krishnaswamy</b> )	5253/Che/2014: filed: October 21, 2014
2	Swietenia Microphylla extracts for medical textiles ( <b>Dr. Sangeetha Krishnaswamy</b> )	5915/Che/2014: filed: November 26, 2014
<b>Dept of Nanoscience &amp; Technology</b>		
<b>S.No</b>	<b>Patent</b>	<b>Year</b>
3	Novel chitosan nano-herbal composites and process for preparation and application ( <b>Ms P. Premasudha</b> )	Dec. 29, 2014

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

<b>Name of the faculty</b>	<b>Department</b>	<b>Nature of the Award</b>
Dr N. Ponpandian	Nanoscience and Technology	<ul style="list-style-type: none"> <li>• Best-Poster Award, Magnetic Society of India and Pondicherry University, 2014.</li> </ul>
Dr. N. Jeyakumar	Bioinformatics	Nominated for Bhatnagar Award.
Dr.M.Sumathy	Commerce	<ul style="list-style-type: none"> <li>• Senor Women Educator &amp; Scholar Award, International Women's Day, National Foundation for Entrepreneurship Development (NFED) Coimbatore, 2014.</li> </ul>
Dr.P.Chellasamy	Commerce	<ul style="list-style-type: none"> <li>• Best Zonal Co-ordinator Award, IRCS, Tamilnadu Branch, 2013 and 2014.</li> <li>• Dr. A.P. J. Abdul Kalam Award, 2014.</li> <li>• Best YRC Zonal Co-ordinator Award, 2014.</li> </ul>
Dr. T. Devi	Computer Application	<ul style="list-style-type: none"> <li>• Best Alumni Award, 2014</li> </ul>
Dr. S. Sundarabalu	Linguistics	<ul style="list-style-type: none"> <li>• Selected from Bharatiya Dalit Sahitya Akademi- "Baba Saheb Dr. Ambedkar National Fellowship Award – 2014" (Public Service).</li> </ul>
Dr.L. Senthilkumar	Physics	<ul style="list-style-type: none"> <li>• Indo-Australia Early Career Visiting Fellowship by Indian National Science Academy (INSA), The University of Queensland, Brisbane, Australia, July 2013- June 2014.</li> </ul>

Dr. N. Annalakshmi	Psychology	• UGC Raman PDF 2013-2014 at University of Michigan, Ann Arbor.
--------------------	------------	---

**3.18 No. of faculty from the Institution who are Ph. D. Guides:** 155

**and students registered under them** : 169 (admitted in 2014-15)

**3.19 No. of Ph.D. awarded by faculty from the Institution** : 202

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

S.No	Name of the Scholarship	Year		
		2014	2015	Total
1.	Rajiv Gandhi	-	-	-
2.	Moulana Azad	01	-	01
	URF	47	-	47
3.	JRF (NET)	04	-	04
4.	DST – INSPIRE	03	-	03
5.	ICSSR – SRF	-	03	03
6.	ICMR - SRF	03	01	04
7.	CSIR – SRF	02	01	03
8.	UGC - SC / ST Post Doctoral	03	04	07
9.	UGC – Post Doctoral for Women	-	02	02
<b>Total</b>		<b>63</b>	<b>11</b>	<b>74</b>

**3.21 No. of students Participated in NSS events:**

**University level** : 610      **State level** : 6450

**National level** : 39      **International level** : 01

**3.22 No. of students participated in NCC events:** Not Applicable

**3.23 No. of Awards won in NSS:**

**University level** : Nil      **State level** : 07

**National level** : 03      **International level** : Nil

**3.24 No. of Awards won in NCC:** Not Applicable

**3.25 No. of Extension activities organized**

**University forum:** 04      **College forum:** 03      **NSS:** 07

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

- National Integration Camps
- Blood Donation Camps
- Initiative made to create the campus as Green Campus by the construction of percolation ponds, rain water harvesting, solar lamps
- Free Eye Camp
- Environmental Awareness Program
- Government of Tamil Nadu has sanctioned Rs. 27 Lakhs to establish a centre and conduct Entrepreneur and Skill Development programmes for the students reaching the portals of Higher Education. Bharathiar University is one of the few University successfully accomplished the mission in record time.
- Entrepreneurship Development Institute has identified Bharathiar University as nodal centre to develop entrepreneurship among the unemployment youth. Under this four different outreach programmes were organized as extension activities.
- Organised exhibition for physically challenged by Department of Social Work
- The teachers and staff of the University willingly and generously contribute their one day salary towards the National Relief Fund.
- World Environments Day is celebrated on 5<sup>th</sup> June
- University conducted voter's awareness rally.
- Awareness programme on blood donation, eye donation, parthenium eradication, child labour eradication are regularly conducted.
- Last rights are performed for the unclaimed bodies in the government hospital mortuaries by the University students.
- Placements of students in the slums to create awareness on importance of education as well as to orient towards life skills.
- Computer education to school children is offered.
- Programmes on women and legal aid are conducted.
- Celebration of Women's Day.
- The following programs are conducted regularly
  - World Mental Health Day on 10<sup>th</sup> Oct 2014
  - World Elderly Day on 1<sup>st</sup> Oct 2014
  - Plastic eradication campaigns are conducted periodically.
  - Street Plays are enacted to sensitize certain social issues such as Abolishing of bonded labour on 8<sup>th</sup> OCT.

## 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	976.81 Acres		Government of Tamilnadu	976.81 Acres
Class rooms in sq. ft	62291.37	4330.03	Funds from UGC, University and Tamilnadu Government	66621.40
Laboratories	70931.6	576.09		71507.69
Seminar Halls	16349.89	-		16349.89

#### Equipments Purchased

Name of the Equipment	Actual Cost ( in Lakhs)	Source	Year of Purchase	Department
Nanodrop	6.00	University	2014	Biotechnology
High Performance Computing Cluster	75.00	DST – PURSE	2014	Maths & Statistics
Single Crystal X-ray Diffractometer	175.00	DST-PURSE	2014-15	Physics
Spectrofluorometer	14.00	University	2014	Nanoscience
Electro Spinning Unit	6.50	DST-SERB	2014-15	Nanoscience
Powder X-ray Diffractometer	65.00	DST-FIST	2014-15	Nanoscience

#### 4.2 Computerization of administration and library

- Automation of the Research & Development Centre, Bharathiar University
- Installed Online Document Verification System

#### 4.3 Library services:

	Existing		Newly added	
	No.	Value	No.	Value
Text Books	1,64,721	-	5,764	101.50
Reference Books	4,569	-	-	-
e-Books	2,700	-	-	-
Journals	218	24.36	145	17.22
e-Journals	11000+	Free	-	-
Digital Database	02	16.48	405 (Ph.D. Theses)	-
CD & Video	136	00.36	-	-
Others (specify)	-	-	-	-

#### 4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Common Computer Centres	Office	Departments
Existing	1423	29	01	01	-	44	33
Added	45	01	-	-	200	-	-
Total	1468	30	01	01	-	44	33

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

- Provided desktop/laptop facility to all the teaching staffs.
- Seminar & training on e- learning platform-moodle was organized by IQAC.
- Workshop on Social Science Research Methodology and Use of SPSS Software for Data Analysis' organized by Department of Population Studies and Department of Extension & Career Guidance.

#### 4.6 Amount spent on maintenance in Lakhs:

i) ICT	:	₹ 28.35
ii) Campus Infrastructure and facilities created	:	₹ 950.63
iii) Equipments	:	₹ 144.78
iv) Others	:	₹ 366.96
<b>Total</b>	<b>:</b>	<b>₹ 1490.72</b>

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Medical Centre for first aid and emergency treatments
- Post office
- Foreign students centre will help or advise on aspects of University accommodation, counseling, health and employment.
- Grievances Redressal Cell for voicing the grievances of students and research scholars.
- Internet centre equipped with high speed broadband facility, caters to the needs of the students in browsing and electronic mail.
- Fitness Centre for physical fitness and A separate fitness center is also available for women
- Green Box for placing the suggestions for betterment and also for expressing grievances if any.
- Women’s Centre to offer counseling for women staff and students and to arrange free medical checkup.
- Ramps for differently-abled students.
- Finishing schools are held during summer vacations with the support of industrial experts
- Website (www.careersvarsity.com) enable students to register for placement opportunities and employers to select the right candidate and placement officers for resource support
- Website (www.aptitutecoach.com) enable coaching students in various aptitude areas
- Anna Centenary Civil Services Coaching Academy
- University Science Instrumentation Centre provides facilities for design and development of mechanical accessories, assemblies, models, etc.

#### 5.2 Efforts made by the institution for tracking the progression

- Regular meeting of Heads of the Departments by the office of the Vice-Chancellor
- Department level meetings with the members of faculty by the Heads of the Departments
- Meetings of the Co-ordinator, CBCS with the faculty members
- Need based meetings of the teachers with the parents
- Feedback from students, alumni and parents
- Tutorial system

#### 5.3 (a) Total Number of students

PG	Ph. D.	Others
1123	169	

(b) No. of students outside the state : 120

(c) No. of international students : 02

<b>Men</b>	No	%	<b>Women</b>	No	%
	437	38.91		686	61.09

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
116	225	12	630	-	983	132	242	08	741	-	1123

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

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

- Anna Centenary Civil Services Coaching Academy, number of student beneficiaries are 162
- Website (www.careersvarsity.com) enable students to register for placement opportunities and employers to select the right candidate and placement officers for resource support
- Website (www.apitutecoach.com) enable coaching students in various aptitude areas
- Finishing schools are held during summer vacations with the support of industrial experts
- Conducted NET coaching classes for SC/ST/OBC non-creamy layers by all the Departments of the University

#### 5.5 No. of students qualified in these examinations

NET	110	SET/SLET	39	GATE	17	CAT	0
IAS/IPS etc	02	State PSC	17	UPSC	0	Others	01

#### 5.6 Details of student counselling and career guidance students interaction programme

- Bharathiar Counselling Centre focuses on the personal, psychological, academic and other related problems of the students- 342 students participated
- The department of Extension, Career Guidance and Students Welfare exclusively works for the outreach, placement activities and students welfare apart from the activities taken up by the individual departments.
- A separate budget provision is given for each department for career counseling and placement. No. of students benefitted: Around 1600 (on and off campus)
- Organised 'Language Training' for the students from Malaysia, by the Department of Linguistics
- In every department the faculty members are Mentors for the students who provide counseling and guidance to the students allotted under them. In this Tutor/ Mentor system students are allotted in the ratio of 1:20 under a faculty mentor.
- Job fairs are conducted on campus and off campus for the benefit of students of university departments and affiliated colleges.
- At the department level the industrial experts and trainers in soft skills are invited to train the students during the final semesters of the programme.
- Under tutorials the mentors give counseling and career guidance to the mentees periodically during the counseling session regularly.

## 5.7 Details of campus placement

- Finishing schools were organized for students of University departments and affiliated colleges by the Department of Extension, Career Guidance and Students Welfare under which so far seven programmes were organized for 1240 students and 05 programmes were organized benefiting 242 teachers.
- Under affirmative programmes for SC / ST minorities and economically weaker sections of students 17 events were organized for 1050 students and 221 were selected for placement. 40 companies belonging to service organizations, business enterprises and manufacturing companies visited for placement.

## 5.8 Details of gender sensitization programmes

- Department of Women's Studies creates awareness on gender sensitization by organizing various training programmes and seminars as part of their extension activities. A three day seminar on "Gender Sensitization for Police Personnel" was organized in collaboration with police recruitment school.
- The department of Women Studies has also organized poster, essay writing, short story writing, debate, street play, skit competitions on Women Empowerment.

## 5.9 Students Activities

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

State/ University level : 28      National level : Nil      International level : Nil

### No. of students participated in cultural events

State/ University level : 385      National level : 32      International level : Nil

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

Sports:

State/ University level : 47      National level : 07      International level : 03

Cultural:

State/ University level : Nil      National level : Nil      International level : Nil

## 5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	URF-47	₹ 35,55,000
	Endowments- 36	₹ 6,35,000
Financial support from government	Scholarships from Government – 1038	₹ 40,85,000
Financial support from other sources	Fellowships from funding agencies -162	₹ 1,70,61,200
Number of students who received International/ National recognitions	12	-

### **5.11 Student organised / initiatives**

Fairs:

**State/ University level : 03    National level : Nil    International level : Nil**

Exhibition:

**State/ University level : 04    National level : Nil    International level : 01**

**5.12 No. of social initiatives undertaken by the students :            12**

### **5.13 Major grievances of students (if any) redressed:**

- Maximum of three month salary / fellowship is provided for sanctioned projects when there is delay in sanction of II & III instalment of funds.
- Additional food courts are provided in the Overseas Hostel
- Transport facility is enhanced for students, teachers and staff
- Facilities available in the Health Centres were enhanced

## **Criterion – VI**

### **6. Governance, Leadership and Management**

#### **6.1 State the Vision and Mission of the institution**

##### **“Vision of Bharathiar University”**

Our vision is to provide internationally comparable quality higher education to the youth. The aim is not only focused on imparting subject knowledge and skills, but also to mould the students with better conduct and character committed to the societal needs and national development. Enshrined with the motto “Educate to Elevate”. The University strives to realize the vision of India and excel in promoting and protecting the rich heritage of our past and secular ideals of the nation.

##### **“Mission of Bharathiar University”**

- To be innovative, inclusive and international University; committed to excellence in teaching, research and knowledge transfer and to serve the social, cultural and economic needs of the nation".
- To innovate and offer educational programmes in various disciplines with synergistic interaction with the industry and society.
- To impart knowledge and skills to students equipping them to be ready to face the emerging challenges to the knowledge area.
- To provide equal opportunity to women students and prepare them to be equal partners in meeting the scientific and technological demands of the nation.
- To contribute to the advancement to knowledge through applied research leading to newer products and process.
- To prepare the students to work for societal transformation with commitment to justice and equality.

#### **6.2 Does the Institution has a management Information System**

Each administrative unit has separate Management Information System. However efforts are under process to integrate various administrative and academic departments. University is also planning to create central repository of e-contents prepared by the members of faculty for easy access to the stakeholders. Besides, internships give hands on training to students.

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

##### **6.3.1 Curriculum Development**

Every Department has a prescribed course structure, which in general terms is known as Curriculum/Course of Study/Programme. It prescribes courses to be studied in each semester. This includes all the curricula and course contents. The University is one among the few institutions in Tamil Nadu which implemented the Choice Based Credit Systems since 2000 – 01. Transfer of teaching learning from closed University setup to open environment is attempted by having access to EDUSAT, MOOC and (Massive Open Online Course), Coursera, edX, Udacity etc., Suggested the University Departments and the affiliated colleges to include one course in each semester to be completed under open source learning as non-credit course for PG students.

The University has definite policies in the creation of curriculum and updation of the curriculum. The curriculum is revamped to provide the state-of-the-art education and training in

both fundamentals and applied aspects. It is also designed to identify areas of core competence which is reasonably stable and which suits the vibrant industry and the increasing usage of computers. The curriculum also provides sufficient number of electives and laboratory-based papers to support the changing needs of the industry. Many papers include lab components where the students are able to learn the latest software languages and tools.

The curriculum also gives emphasis on mini-projects and projects where students are expected to develop a real-time industrial applications/ module required for the industries. Thus students are exposed to industrial environment. This would enable the students to be aware of the requirements in the industry and equip themselves to jobs once they complete their course. The curriculum also focuses on providing problem solving skills, arranging remedial coaching and personal counselling for students who need such support. The guidelines for mini-project and project is also designed which gives instructions to the students on the preparation of the thesis. Case studies are included in the syllabus so that students are involved in the learning process and this would make learning effective. Importance is given to improve teaching-learning process through usage of Information and Communication Technology.

### **6.3.2 Teaching and Learning**

- Continuous Internal Assessment includes mandatory assignments, seminar presentations, field and project work in all courses.
- Provisions are available for internet access to our library users so as to enable them to access the various learning resources available in the academic websites.
- Classes are handled with aids like PowerPoint presentations, Case Studies, etc.
- National and International seminars, conferences and workshops are conducted in every department which enable students to utilize the knowledge and experience of experts
- Every department has smart class rooms which enable Multimedia presentation and video conferencing facilities
- Internet with Wi-Fi and Inflibnet facilities are available in department and University libraries

### **6.3.3 Examination and Evaluation**

#### **Post-Graduate:**

- The continuous assessment tests are conducted at regular intervals and the students are assessed on the basis of written tests, seminar presentations and assignments.
- The end semester examinations are held after completion of 90 working days.
- Meetings of monitoring committee of CBCS convened by the Vice Chancellor are held to plan the schedule for teaching – learning and evaluation. The schedule is prepared in consultation with the Heads of the departments.

## **M.Phil and Ph.D**

- Part – 1 examinations are conducted for M.Phil. and direct Ph.D. research scholars after 6 months of their admission.
- The reports of M.Phil. research scholars are evaluated by experts and internal viva-voce is conducted.
- The reports of Ph.D. research scholars are evaluated by Indian and Foreign experts and open viva-voce is conducted.
- To qualify for a pass, a student should secure a minimum 50% mark in the examination, in case of PG and M.Phil. exams.
- Attending two Doctoral Committee meetings are compulsory for the Ph.D. students to submit their thesis
- Publication in reputed journal is mandatory for submission of Ph.D. thesis
- Admission for direct Ph.D. is based on the marks secured in the Common Entrance Test (CET) along with other basic qualifications.

### **6.3.4 Research and Development**

The University has a Research Board functioning under the chairmanship of the Dean, Research. Research Board meets minimum once a year, based on the need it meets even twice a year.

#### **Composition of Research Board:**

Dean, Faculty of Research, Chairman and Industrial Experts	- 3
Deans of Various Faculty	- 4
Principals of Affiliated Colleges	- 2
Association of University Teachers	- 2
Professors / Scientist of other Universities and Research Institutions	- 3
Student Representatives	- 1

#### **Recommendations of the Research Committee:**

The Research Board has framed the following remarkable recommendations during the assessment period

- Common Entrance Test (CET) for University Departments and affiliated colleges for candidates who seek admission for Ph.D. and M.Phil.
- Formation of Doctoral Committee to each students and periodical evaluation of the research work through doctoral committees to ensure the timely submission of the research.
- Eligibility conditions of the candidates for admission in Ph.D. for both part time and full time as well as the requirement of attendance for the research scholar.
- To improve the quality of the research the board also recommended certain basic standards such as
  - change in the examination pattern for completion of course work
  - guidelines for change of topic and area of specialization
  - guidelines for recognizing Inter-disciplinary research
  - Ph.D. candidates shall publish at least one research paper in a refereed standard journal before submission of the thesis for adjudication for arts subjects. For science subjects one research paper shall be published in SCI journal before submission of the thesis and the same is produced in the form of acceptance letter or as reprint with a certificate from the guide to this effect.

- appointment of senior faculty member as Research Co-Ordinator to expedite the process of evaluation of theses.
- formation of need based Grievance Redressal Committee in case of any dispute faced by the candidate and the guide
- The Executive Research Programme is designed in such a way as to have a research knowledge and exposure in a specific managerial and administrative fields, Two-day Research Workshop will be conducted for the Ph.D. aspirants at the Bharathiar University Campus and approved Centres in abroad. Appropriate guide lines shall be given to them.
- Under this category, candidates who fulfill the eligibility criteria can register for Ph.D. programme under a Research Supervisor recognized by the Bharathiar University. The Research Supervisor under this category may work in the Bharathiar University Departments or in the Affiliated Colleges / Approved Research Institutions of Bharathiar University or Working in Colleges, Universities outside Bharathiar University area.
- MoU was signed between Bharathiar University and Anglia Ruskin University – United Kingdom for research collaboration in various fields (04.04.2014)

#### **6.3.5 Library, ICT and physical infrastructure / instrumentation**

- The University participate in Shodhganga by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access. Around 409 theses are uploaded. Among Universities participated in Shodhganga, Bharathiar University is listed as 21<sup>st</sup> University among top 40 Indian Universities in 2014.
- Separate Multimedia section is available to the users for effective use of audio visual resources in the library.
- Bharathiar University has become partner in National Knowledge Network as result of which we could access the higher end networking.
- Library operations are mostly computerized especially circulation of books through OPAC.
- Library has bar-coded the document collections. Provisions are being made to provide internet access to the library users so as to enable them to access the various learning resources available in the academic websites.
- Besides, the university library is a member of UGC - INFLIBNET – INFONET, E-Journal Consortium.
- Intranet facility for e-governance with bandwidth of 30 mbps is available in the campus in order to maintain paper free communication between the departments as well as to connect academic and administrative units.
- Common Computer Centre has established

### **6.3.6 Human Resource Management**

- Need based workshops and training programmes are conducted by the respective departments to give hands-on training to the teachers to make them familiar with the latest techniques.
- Through UK-India Education and Research Initiative (UKIERI), the University has an exchange programme of faculty members / research scholars for their study and research work.
- In order to improve the performance of the members of teaching faculty, several faculty development programmes such as orientation programmes, workshops and other HR training programmes are organized regularly by the respective departments and the Academic Staff College of the University. The internal promotions for the teaching faculty are done by Career Advancement Scheme (CAS).
- As per the norms, teaching staff are recruited and assigned with optimum workload of teaching, research and extension activities.
- Regular training programmes on the use of computers and latest technologies are given to the non-teaching staff.
- The members of the faculty are encouraged to participate and present papers in the National and International forums by way of meeting the financial commitments partially.

### **6.3.7 Faculty and Staff recruitment**

#### **Teaching Faculty**

To recruit teaching faculty members University follows rigorous methods. The number of recruitees is determined based on the emerging requirements of new courses in departments. The requirements of every department are placed before the faculty council for approval. Further it is placed at the appropriate forum for discussion and final sanction is accorded by the Syndicate. Based on the approval, advertisements are published in the national and regional newspapers and in the official website of Bharathiar University. After the last date for receiving applications a scrutiny committee is appointed headed by the Deans of respective faculties. Once the screening process is over, shortlisted candidates are intimated about the dates of personal interview. As per the Acts and Statutes, a selection committee is constituted. The Vice Chancellor is a chair person for all the selection committees. The recommendations of the selection committee are placed before the Syndicate for approval. The candidates are informed about the selection individually and are sent an offer letter. Promotion to teaching staff is done according to the career advancement scheme (CAS) of UGC for their upward mobility. Nearly 40 percent of the faculty members were promoted under CAS in the last year.

#### **Non-teaching staff**

The recruitment for non-teaching staff is also followed in the same manner described earlier with appropriate focus on the relevant job functions. For most of the non-teaching staff positions (other than entry level positions) internal recruitment practice is followed. The interview for the non-teaching staff members is conducted by a duly constituted panel of members nominated by the Syndicate and promotions are given based on their performance.

### 6.3.8 Industry Interaction / Collaboration

The Centre for Collaboration of Industry and Institution (CCII) is an approved institutional program division under which industries are permitted to offer non-traditional / para professional / occasional / industry oriented Diploma, Post Graduate Diploma, Degree and Post Graduate Degree programmes.

The main objectives of CCII are to:

- Provide open learning system
- Promote linkage between University and Industries
- Innovate and offer educational programmes in various disciplines with synergistic interaction with industry and society
- Inculcate among students a global vision with skills of international competence
- Provide placement to all the students through approved industries / institutions
- Three Memorandum of Understandings (MoU) were signed during the year 2011-12 to initiate collaboration between Bharathiar University and other institutions in research and other domains.

#### Number of Programmes Offered Under CCII

Programme	CCII
U.G	22
P.G.	11
Certificate	07
Diploma	24
P.G. Diploma	16
Advanced Diploma	09
School Certificate Course	06
Professional Courses (MBA, MCA, B.Ed, M.Ed)	-
<b>Total</b>	<b>95</b>

### 6.3.9 Admission of Students

#### PG Admission

The selection of candidates for various PG courses is based on marks scored by the candidates in the entrance test and marks secured by them upto 5<sup>th</sup> semester / II year of the UG Degree. A merit list is prepared following the reservation norms of the Tamilnadu Government. Programmes specific cut-off marks are generated based on the number of applicants and waiting list is also prepared. The students are duly intimated and called for admission. For some courses direct admission is also done.

The admission for professional courses such as MBA and MCA is done based on marks scored by the candidates in Tamilnadu Common Entrance Test (TANCET) and marks secured by them upto 5<sup>th</sup> semester / II year of the UG Degree. Admissions are based on the communal reservation norms of the Tamilnadu Government. The counseling letter in the ratio of 1:4 is sent with the fee structure. If vacancies exist after the first counseling, a maximum of five candidates for every vacancy is called for further counseling.

## M.Phil., Ph.D., and Category-B External Ph.D. Admission

Bharathiar University has adopted the UGC regulations 2009 pertaining to the minimum standards and procedure for awards of M.Phil / Ph.D degree. M.Phil. and Ph.D. admissions are also based on the marks scored by the candidates in the entrance test and marks scored by them in the qualifying degree examination (PG/ M.Phil. Degree). Admissions are based on the communal reservation norms of the Tamilnadu Government.

### Admission by Entrance Test:

Selection is based on performance in an entrance test and in the qualifying examination (UG) upto V Semester / II year. The Entrance Test is conducted in the university campus only.

### Direct Admission:

Spot Admission will be made on submission of application on first come first served basis. Candidates can also apply online (or) download the application form from the website and submit the filled-in application with required fee.

## 6.4 Welfare schemes for

Teaching & Non Teaching Staff	<ul style="list-style-type: none"><li>• 50% tuition fee concession in School of Distance Education is given for permanent teaching and non-teaching staff and their wards</li><li>• University offers two extra seats in all PG courses to the wards of the teaching faculty and administrative staff</li><li>• Health insurance schemes are available for teaching and non-teaching staff</li><li>• Bharathiar University has associations for both Teaching and Nonteaching staff which take care of their welfare</li><li>• There are two co-operative societies in Bharathiar University viz., Bharathiar University Employees' Co-operative Housing Society Ltd. and Bharathiar University Staff Co-operative Thrift and Credit Society Ltd. for the welfare of teaching and non-teaching staff.</li></ul>
Students	<p><b>Fee Concession</b></p> <ul style="list-style-type: none"><li>• Free Education scheme for students from economically weaker section. The affiliated colleges were requested to admit one girl student (either first generation learner or meritorious but economically weak) under Free Education Scheme in each programme against which they were permitted to enhance their sanctioned strength for the admission by 5%.</li></ul> <p><b>Scholarships</b></p> <ul style="list-style-type: none"><li>• Award of Indira Gandhi PG Scholarship for Single Girl Child</li><li>• Award of PG Merit Scholarship for University Rank holder</li><li>• Award of PG Scholarship for Professional Courses for SC/ST students</li><li>• Post-Matric Scholarship for Minority students</li><li>• Scribes are assigned for visually challenged students at the time of practical and theory exams.</li><li>• Apart from scholarships, endowments and University Research Fellowships are also available for obtaining financial assistance</li><li>• Group insurance schemes for all students</li></ul>

6.5 Whether annual financial audit has been done

Yes  No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Experts from various Universities of Tamil Nadu	No	-
Administrative	No	-	Yes	Internal experts nominated by the Vice-Chancellor

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

For UG Programmes Yes  No   
 For PG Programmes Yes  No

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

- Application for examination can be downloaded and submitted online
- Examination schedule is prepared well ahead. The schedule is intimated to the students of the University departments and affiliated colleges in advance of minimum 15 days. The schedule is either displayed on the notice boards or uploaded on the website.
- Bharathiar University has taken marathon steps to issue **Degree Certificates with 11 unique security features** with QR code which makes the certificates highly safe and easy authenticated level verification from any part of the world.
- After publishing the results the mark sheets and provisional certificates are sent to affiliated colleges within a week.
- University has introduced online registration of candidates from the university departments and affiliated colleges for the examination. This enables error free and faster storage of students information.
- Multiple Choice Questions are introduced in the question paper of Part time Ph.D Category-B Entrance Test conducted by Bharathiar University
- The entrance test are conducted using Optical Mark Recognition (OMR) sheets
- Learning through online open sources is encouraged. Qualifying minimum one paper per semester through online source as non-credit course is going to be made mandatory from 2015-16 onwards.

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

- The circulars from UGC are regularly circulated through University website
- Bharathiar University affiliated Colleges are motivated to have academic autonomy in activities such as Curriculum Development, Admission, etc.,
- In the beginning of every academic year, meetings with Correspondents, Secretaries and Principals of Affiliated colleges, Constituent colleges and PG centre are conducted

### **6.10 Activities and support from the Alumni Association**

- Alumni participation in Curriculum development through interactions and feedback
- The university has a strong alumni network. The website [www.b-u.ac.in/alumni/index.html](http://www.b-u.ac.in/alumni/index.html) is originally developed and hosted by the alumni on 22<sup>nd</sup> oct 2001.
- Alumni members also share their expertise by serving as resource persons for seminars, conferences and workshops, etc., The Alumni Association is energetic. It works in close association with the University and supports all its activities
- Every year alumni day celebration is planned during December
- The alumni members serve on Boards of Studies and Academic Council
- Alumni provide Training and placement assistance in all the placement activities

### **6.11 Activities and support from the Parent – Teacher Association**

- The parents support the University by advising in the curriculum development, up gradation of Infrastructure facilities.
- The meetings of Parents and Teachers serve as a platform to make education more effective.
- In the beginning of every academic year a meeting is conducted with the parents of admitted candidates.

### **6.12 Development programmes for support staff**

- Computer training to all University staff members are given
- University makes continuous efforts in encouraging Staff members to undergo training and development programs.
- Repair and maintenance work was carried out in Support Staff Quarters
- Participatory contribution in various committees

### **6.13 Initiatives taken by the institution to make the campus eco-friendly**

- Gardening team with Garden Superintendent is working on campus beautification.
- Rain water harvest system used to recharge the bore wells.
- The entire campus is pollution free
- Environment and Energy audit.
- Students services are utilized to keep the campus clean. Every year NSS unit organizes ‘Eradication of Parthenium Plant’ program.
- Initiations have been taken to convert the **Campus as solar energized one**. University has installed twenty-two solar street lamps and 112 solar bulbs in the campus
- Awareness programs on economical consumption of electricity are conducted.

## 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.

- Totally 664 programmes are offered in the University including P.G., M.Phil., Ph.D., Certificate, Diploma and P.G. Diploma Courses under regular mode and distance mode (Regular-111, SDE-188, CPP/COP-270, CCII-95).
- Innovation in e-governance initiatives, a high-end office automation software has been installed in the Research & development Centre, Controller of Examinations Section, and Finance Office. Moreover, a Student Support Centre is established to facilitate easy accessibility of services such as, payment of fee, etc.
- Bharathiar University is one among the nine Universities which is selected as a nodal centre for the National Knowledge Network
- Some of the curricula are validated by Sector Skill Councils of National Skill Development Corporation (NSDC). The University has signed MoUs with Telecom, Electronics Sector Skill Councils and training partners like TCS, HCL, Infosys and UTL Technologies. The University nurtures the culture of publication among both students and teachers which connects them with world of outside knowledge.
- Finishing schools were organized by the Department of Extension, Career Guidance and Students Welfare under which so far seven programmes were organized for 1240 students and 05 programmes were organized benefiting 242 teachers.
- Under affirmative programmes for SC / ST minorities and economically weaker sections of students 17 events were organized for 1050 students and 221 were selected for placement.
- Highest number of students are placed in TCS from Bharathiar University
- The Student to Teacher and Teacher to Teachers relationships are good which leads to better functioning of the institution
- Bharathiar University has implemented Free education for poor and talented students

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

- Department of Physics conducted workshop on **Theoretical Physics organized**
- NSS unit organized seminar on **‘Social Harmony and Human Rights’**
- Department of Sociology and Population Studies conducted National seminar on **Social exclusion in India: Perspectives and challenges**
- Department of Commerce conducted workshop on **Data analysis in business research**
- Department of Psychology conducted National seminar on **Enhancing psychological well being**
- Department of Medical Physics conducted National seminar on **Radiation technology in health care and its safety**
- Department of Econometrics conducted Workshop on **Application of econometric techniques in empirical research**
- Department of Computer Applications conducted Seminar on **Cyber Security**

- Department of Textiles and Apparel Management conducted International conference on **Emerging trends in textiles, apparel production & management**
- Department of Electronics and Instrumentation conducted National workshop on **Recent trends in electronics and instrumentation**
- Department of Nano Science and Technology Conducted **National Science Day**
- Department of Information Technology and Department of Computer Science conducted National seminar on **Wireless communication and mobile computing**, organized by
- Department of Social Work conducted International conference on **Strengthening inclusive practices for mainstreaming persons with disabilities in higher education and work place**
- Department of Education conducted National seminar on **Teacher education towards preparing professional and humane teacher**
- Department of Women's Studies conducted National seminar on **Women and leadership**
- Department of Chemistry conducted Workshop on **X-ray crystallography and its applications**
- Department of Sociology and Population Studies conducted National seminar on **Aging and elderly persons in India: Perspectives and issues**

### 7.3 Best Practices of the institution

#### Best Practice 1

##### 1. Title of the Practice

“On Time Quality Research”

##### 2. Objectives of the Practice

- In order to enhance the quality of the research work as well as expedite the process of evaluation and address issues related to grievances between the guide and the scholar

##### 3. Context

Keeping in mind the increasing the number of admissions of Ph.D. research scholars as well as recognized guides in the University departments and affiliated colleges it is felt that there must be some checks and balances to improve the quality of research at the same time support on time submission of the thesis.

##### 4. Practice

The University has a Research Board functioning under the chairmanship of the Dean, Research. Research Board meets minimum once a year, based on the need it meets even twice a year.

##### Composition of Research Board:

Dean, Faculty of Research, Chairman and Industrial Experts	- 3
Deans of Various Faculty	- 4
Principals of Affiliated Colleges	- 2
Association of University Teachers	- 2
Professors / Scientist of other Universities and Research Institutions	- 3
Student Representatives	- 1

## Recommendations of the Research Committee:

The Research Board has framed the following recommendations during the assessment period

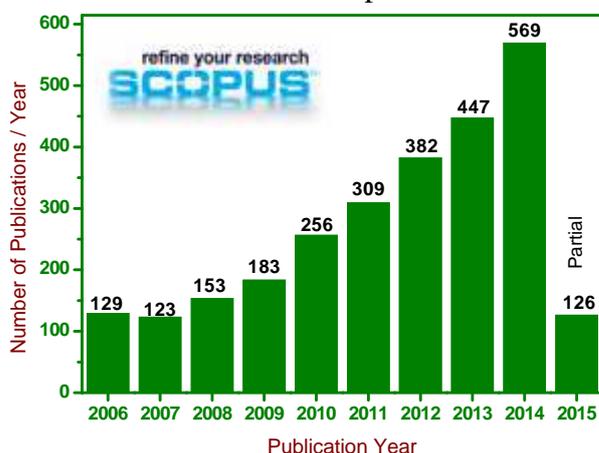
- Common Entrance Test (CET) for University Departments and affiliated colleges for candidates who seek admission for Ph.D. and M.Phil.
- Formation of Doctoral Committee to each students and periodical evaluation of the research work through doctoral committees to ensure the timely submission of the research.
- Eligibility conditions of the candidates for admission in Ph.D. for both part time and full time as well as the requirement of attendance for the research scholar.
- To improve the quality of the research the board also recommended certain basic standards such as
  - change in the examination pattern for completion of course work
  - guidelines for change of topic and area of specialization
  - guidelines for recognizing Inter-disciplinary research
  - Ph.D. candidates shall publish at least one research paper in a refereed standard journal before submission of the thesis for adjudication for arts subjects. For science subjects one research paper shall be published in SCI journal before submission of the thesis and the same is produced in the form of acceptance letter or as reprint with a certificate from the guide to this effect.
  - appointment of senior faculty member as Research Co-Ordinator to expedite the process of evaluation of theses.
  - formation of need based Grievance Redressal Committee in case of any dispute faced by the candidate and the guide

## 5. Evidence of Success

- Number of Ph.D. thesis submitted during the last two years has increased by 53 percent

Details		2013	2014
Ph.D.	Submitted	503	773
	Accepted	496	622
	Resubmitted	07	-
	Rejected	-	-

- The research scholars could come out with good publications in referred journals as a result of which the publication of scholars and guides with high impact and citation index has improved.



#### **7.4 Contribution to environmental awareness / protection**

- The University has taken an initiative towards environmental sustainability by promoting the idea i.e. **‘Say no to Plastic. That’s Fantastic’**.
- The NSS unit of the University has organized a programme for ‘Eradication of Parthenium Plant’ on campus
- The entire campus is pollution free
- Environment and Energy audit is conducted
- Student’s services are utilized to keep the campus clean.
- Awareness programs on economical consumption of electricity are conducted.
- Sensitization initiatives were organized for administration staff on campus cleanliness and parthenium eradication

#### **Energy Conservation**

- Sharing the equipments to reduce the load in the office. Turning off all the electric and electronic devices at the end of the day to save energy.
- University has taken initiative to do a trial run in installing solar lights and Power plant as per the vision 2023 of the Government of Tamilnadu
- Initiations have been taken to convert the Campus as solar energized one. University has installed 22 solar street lamps and 112 solar bulbs in the campus
- The members of faculty are advised to consume energy economically in the staff room, class room and the laboratories.
- Overload and shock in the electricity are automated by tripping system.
- Auto change over generators are made available in the campus so that delay or break in works due to electricity failure can be avoided

#### **Use of Renewable Energy**

- Both solid and liquid waste products are stored for renewable energy compost and used as manure for plants inside campus for proper nutrition.
- Bottles, cans and plastics are sent for recycling.
- LCD monitor is used instead of CRT monitor
- Waste from Costume Design & Fashion like waste clothes are used for stuffing, and for making accessories for children.

#### **Water Harvesting**

- University has installed rain water harvesting facilities. Entire rain water is conserved through drainage which is collected in various ponds in the campus.
- Each block in the University has water harvesting provisions and all the blocks are benefited during summer and dry days. All the blocks including the hostels have rain water harvest tanks.

#### **Check Dam**

- Check Dam in the University campus is constructed for rain water harvesting and improving the ground water level and to avoid the soil erosion.

#### **Efforts for Carbon Neutrality**

- A large number of trees not only gives beauty to University campus but also neutralize carbon level in the atmosphere.

### Plantation

- Mass tree plantation in Bharathiar University and affiliated colleges to the tune of 25,000 saplings (University and college campus, Road Sides in the cities) under Chief Ministers Green Cover Programme is undertaken.
- Tree Planting Programmes and Birthday Park Programme towards green campus initiative has created beautiful parks on campus.

### Hazardous Waste Management

- University is sensitive to the hazardous waste materials which are stored in the safe areas.
- The vegetable wastes in the eight hostels are disposed regularly to keep the campus clean.
- In all the hostels and the toilets in the University, the human waste in the septic tanks is periodically emptied with the help of Coimbatore Corporation or private truckers. e-waste management proposed for instalment.
- As the University is more than 30 years old, there is a large waste of computers and peripherals due to frequent use. It is unavoidable to dispose them to the scrap merchants. All e-waste materials are auctioned through U.E.

7.5 Whether environmental audit was conducted?      Yes  No

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

#### Strengths:

- The University is ranked as **one of the top 50 Universities in India** in a survey conducted very recently by the popular English Magazine “**India Today**”. Moreover, Bharathiar University is the only University from Tamil Nadu to find a place in this prestigious list
- Bharathiar University is ranked first among Southern Universities and second best Arts and Science University in India by Times of India
- The UGC – ASC of Bharathiar University is ranked as No.1 among the ASC in Tamilnadu and 12th among the ASC in India by NAAC
- The University has been funded with grants to the tune of **₹ 57.38 Crores** by the **University Grants Commission** under development assistance activities, schemes, projects, etc. and by the Distance Education Council for promoting the activities of the Distance Education programmes.
- For the First time in India and even in Asia, Bharathiar University has taken marathon steps to issue **Degree Certificates with 11 unique security features with QR code** which makes the certificates highly safe and easy authenticated level verification from any part of the world.
- The entire campus is pollution free
- The various programs organised by Bharathiar University have as a strong carrier focus. To support the students for the higher studies and placement collaborations are made with industries and national research laboratories
- Bharathiar University is one among the nine Universities which is selected as a nodal centre for the National Knowledge Network, a nationwide knowledge-sharing initiative involving multi-gigabit, high-speed communication network backbone

through which the University gets 1 GBPS connectivity.

- University has excellent teaching faculty members with more than 90% of the faculty members having their Doctoral Degree and they have produced around 420 Ph.D. degree holders during the report period

**Weaknesses:**

- The collaboration at global level is limited only to some streams
- Need for advanced equipments and tools in some research laboratories
- The research output from University is not fully utilised for the welfare of the society in the form of innovative products
- The linkage between academic and industry is to be strengthened
- University Science and Instrumentation Centre has to be strengthened
- Collaborative research projects need to be encouraged

**Opportunities:**

- Training of research scholars in multi-disciplinary areas
- University has the scope to become University with Potential for Excellence
- Many centres concentrating specific field of research are likely to be established
- Possibility of conducting conferences by Bharathiar University and International collaborating institutions.
- Research students have the opportunities to be trained using webinar in recent techniques

**Threats:**

- Arts & Science institutions are forced to compete with engineering and science institutions due to leniency in admission in the engineering colleges
- Failure of some courses to attract students

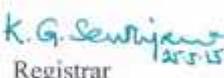
**8. Plan of Institution for next year:**

- Instituting new programmes namely M.A History & Tourism, M.Sc. Bio chemistry and Bachelor of Vocation (B. Voc.)
- Implementation of UGC-SAP programme in seven more departments
- Encouraging PG students to register online courses from open sources like Coursera, edX etc.,
- Planning to introduce ERP solutions for all the administrative and academic activities of School of Distance Education
- Presenting proposal for Centre with Potential for Excellence in Particular Areas (CPEPA) in Solar Energy

  
Co-ordinator  
IQAC

**Dr. B. VANITHA**  
Co-Ordinator - IQAC  
Department of Economics  
Bharathiar University  
Coimbatore - 641 046

  
Adviser  
IQAC

  
Registrar  
**REGISTRAR**  
Bharathiar University  
Coimbatore - 641 046.

  
Vice Chancellor  
**Prof. Dr. G. JAMES PITCHAI**  
VICE-CHANCELLOR  
Bharathiar University  
Coimbatore - 641 046