

## *Preface*

The Bharathiar University was established at Coimbatore by the Government of Tamilnadu in February, 1982 under the provision of the Bharathiar University Act, 1981 (Act 1 of 1982), with jurisdiction over the districts of Coimbatore, Erode and the Nilgiris. The Postgraduate Centre of the University of Madras which was functioning in Coimbatore before 1982 formed the core of the Bharathiar University. In May, 1985 the University received the recognition from University Grants Commission (UGC) New Delhi for the purpose of grants.

The University named after the great national poet **Subramania Bharathiar** is enshrined with the motto '*Educate to Elevate*'. In the University every effort is harnessed to realize his dream of making educational institutions as temples of learning. It is the aim of the University to participate in the task of inculcating necessary knowledge, skills and Creative Attitudes and Values among the youth of this country to contribute more effectively towards establishing an equitable social and economic order and promote the secular ideal of our nation.

### **Mission**

Our mission is to provide quality higher education to all people. We aim at developing citizens with knowledge, skills and character, contributing to societal transformation and national development in consonance with our motto '**educate to elevate**'. We strive to form students to be men and women for others, offering their selfless service for the growth of the country and people.

## **Vision**

The Bharathiar University strives to fulfill the dreams of the great poet Bharathiar by actualizing the following:

- To promote educational programmes in various disciplines with synergistic interaction with industry and society
- To develop knowledge and skills of students to equip them to face the challenges and needs of the emerging knowledge society.
- To give equal opportunity to women students in order to prepare them to be effective leaders.
- To contribute to the advancement of knowledge through research and publications which leads to knowledge products.
- To prepare the students for societal transformation with commitment to justice and equality.
- To make students to be conscious of their duty to the country and to fellow human beings.

## **Status**

- Accredited by NAAC in the year – 2003 with ‘A’ Grade
- Member of Association of Indian Universities
- Member of Association of Common Wealth Universities, London
- Member of UGC’s Info – NET Consortium, New Delhi
- Member of UGC – CEC, New Delhi
- Member, Distance Education Council (DEC), New Delhi

**Name of Institution : Bharathiar University, Coimbatore, Tamil Nadu**

**Year of Report : 2006 -2007**

**Part A:**

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

**The IQAC of Bharathiar University has chalked out the following as plan of action for the year 2007-2008.**

- Strengthen the Distance Education Programme by establishing **admission cum contact** centers at various places
- Provide totally **Free Education** to deserving students including food and accommodation in the hostel.
- Sign MoUs with service industry and third party assessment agencies for active **academia industry initiatives**
- Institute more number of P.G. programmes
- Strengthen student grievance cell
- Proposed to recruit faculty in all carders in the departments were vacancies are approved

## **Part B:**

### **1. Activities reflecting the goals and objectivities of the Institution.**

#### **Goal of the Institution**

*“Educate to Elevate”*

#### **Objectivities of the Institution**

- To provide quality education to all.
- To develop citizens with Knowledge, Skills and Character
- To contribute towards societal transformation and National development.

### **2. New academic programmes initiated (UG and PG):**

- **Regular**
  - M.Sc., Ph.D. in Life Sciences (5 Years Integrated Course).
  - M. Tech. Molecular Biology & Human Genetics
  - M.Sc. Genetic Engineering
  - M.Sc. Organic Chemistry
  - M.Sc. Nanoscience & Technology
  - M.Sc. Herbal Science
  - M.Sc. Renewable Energy
  - M.Sc. Finance & Computer Application
  - M.Sc. Material Science
  - M.Sc. Electronic & Instrumentation
  - M.Sc. Applied Econometrics
  - M.Sc. Statistics with Computer Applications
  - M.A. English Literature
  - M.A. Journalism & Mass Communication (Full Time & Part time)
  - M.A. Civil Services
  - M.A. Career Guidance
  - M.A. Educational Communication

- **Distance Education**

- M.B.A. Export Management
- M.B.A. Export Management
- M.B.A. Entrepreneurship
- M.B.A. Financial Management
- M.B.A. Financial Services
- M.B.A. Hospital Management
- M.B.A. Human Resources Management
- M.B.A. International Business
- M.B.A. Investment Management
- M.B.A. Information System Management
- M.B.A. Marketing Management
- M.B.A. Retail Management
- M.B.A. Services Management
- M.B.A. Tourism and Hotel Management
- M.A. Criminology & Police Administration
- M.A. Journalism & Mass Communication
- M.A. Political Science & Public Administration
- M.A. Yoga Education
- M.A. Communicative English
- M.A. Fitness Management
- M.Com. Export Management
- M.Com. International Business
- M.Com. Insurance Management
- M.Com. (C.A)
- B.A. Tamil
- B.B.A.
- B.B.M.
- B.Com. (C.A.)
- B.Lit. (Tamil)
- B.Sc. Information Technology

- **PG Diploma courses offered**

- PG Diploma in Communicative English
- PG Diploma in Export Management
- PG Diploma in Educational Technology
- PG Diploma in Fitness Management
- PG Diploma in International Business
- PG Diploma in Insurance Management
- PG Diploma in Microbial Bio-Technology
- PG Diploma in Yoga Education
- PG Diploma in Herbal Science

- **Diploma courses offered**

- Diploma in Communication English
- Diploma in Computerized Accounting
- Diploma in Tally Software
- Diploma in Catering Science and Hotel Management
- Diploma in Marketing Management
- Diploma in Labour Law
- Diploma in Tamil Pulavar
- Diploma in Elementary Teacher Training

### **3. Innovation in curricular design and transaction**

- Massive update of under graduate curriculum by introducing skill based papers and Communicative English is attempted.
- Update of curriculum of distance education programme to get the approval of DEC, New Delhi is initiated.
- Under the CBCS for P.G. students, supportive courses are offered (4 credits per week) to gain inter disciplinary perspectives.
- Inclusion of industry experts, alumni in the board of studies

#### 4. Inter- disciplinary programmes started

- Post graduate programme in Nano technology
- Post graduate programme in GIS
- Post graduate programme in Finance and Control
- Post graduate programme in Immunotechnology
- Post graduate programme in Marine Biotechnology
- Post graduate programme in Crustacean Biology and Technology

#### 5. Examination reforms implemented

- Opportunities are given to final year students to write exams for arrear papers in final semester in order to save the academic year and to get into employment.
- Created a website – [www.Skillstack.com](http://www.Skillstack.com) for testing language skills and aptitude of students

#### 6. Candidates qualified

- JRF - 31
- Others (University funded Research Fellowship) - 27
- Total - 58**

#### 7. Initiative towards faculty development programme

The Academic Staff College of Bharathiar University has conducted the following programmes for the development of faculty

| S.No. | Name of the Course | No. of Courses conducted | Participants |        | Total |
|-------|--------------------|--------------------------|--------------|--------|-------|
|       |                    |                          | Male         | Female |       |
| 1     | Refresher          | 5                        | 91           | 87     | 178   |
| 2     | Orientation        | 3                        | 49           | 39     | 88    |

**8. Total number of seminars / workshops conducted - 18**

*Department of Bio-informatics*

- One day National Seminar on **New Trends in Bioinformatics.**
- Two day International Seminar on **Molecular Modeling and Drug Design.**

*Department of Botany*

- One day workshop on **BONSAI - The art of living Sculpture**

*Department of BSMED*

- National Symposium on **Personal Financial Planning.**

*Department of Chemistry*

- Organized a National Seminar on **Current Developments in Chemistry.**

*Department of Commerce*

- Two day National Conference on **Recent Trends in Financial Sector Reforms and Information Technology.**

*Department of Computer Science*

- Organized a National Seminar **Recent Trends in Computer Science Research**

*Department of Economics*

- National Seminar on **Health Insurance - Dimensions and Challenges**
- National Seminar on **Domestic Water Management: Issues and Challenges**
- UGC (SAP- DRS) sponsored National Seminar on **Impact of Economic Reforms on Growth and Structure of Indian Industrial Sector.**

*Department of Education Technology*

- National Seminar on **Enhancing Quality Education in the New Millennium.**

*Department of Mathematics*

- National Conference on **Applications of Partial Differential Equations.**

*Department of Physical Education*

- Organized the National Seminar on **New trends in Sports Medicine**

*Department of Population Studies*

- Organized the **National Seminar on Adolescents and Youth: Perspectives and Emerging Issues**, at Bharathiar University, Coimbatore, January 24-25, 2007

*Department of Psychology*

- Organized a National workshop on **Applications of Behavior Technology.**

*Department of Statistics*

- Organized National level seminar on **Frontiers in Applied Statistics and Computer Applications (FASCA).**

*Department of Tamil*

- National Level Endowment Lectures organized
  - Bharathiar Endowment
  - Bharathidasan Endowment
  - Dr. Ka. Meenakshisundaram Endowment
  - Kovai Kizhar C.M.Ramachandran Endowment
  - Pa.SU.Manian Endowment Lectures).

*Department of Zoology*

- National Seminar on **“Genes, Environment and Cancer (GEC- 2007)”.**

**9. Research Projects**

- Ongoing - **49** Research Projects
- Newly Implemented - **08** Research Projects
- Total - **57** Research Projects

## 10. Patents generated, if any

- Nil -

## 11. New collaborative research programmes

- The University signed a MoU with the **Co-operative Research Centre for Contamination Assessment and Remediation of Environment of Australia**, to explore the possibilities for the exchange of research programmes.
- The University has signed agreements with **University of Arkansas (USA)** for the proposed Nano facilities centre at Bharathiar University.
- The Department of Physics has **International collaboration** in Molecular Quantum Mechanics with following faculty and Universities.
  - Prof. E.W. Schlag, Technische University Munchen, Germany
  - Prof. B.G. Gowenlock, University of Exeter, UK
  - Prof. V. Renugopalakrishnan, Harvard medical school, USA
  - Prof. L.D.A. Siebbeles, Delft University of Technology, The Netherlands
  - Prof. A.j. Mulholland, Bristol University, UK

## 12. Research grants received from various agencies:

|                         |   |                            |
|-------------------------|---|----------------------------|
| Major Research Projects | - | <b>Rs. 4, 56, 38,597/-</b> |
| Minor Research Projects | - | <b>Rs. 5, 80,000/-</b>     |
| <b>Total</b>            | - | <b>Rs. 4, 62, 18,597/-</b> |

### 13. Details of research scholars:

| <u>Programme</u>              |   | <u>No. of Students</u> |                                 |
|-------------------------------|---|------------------------|---------------------------------|
| M. Phil                       | - | <b>144</b>             | <b>(43 Men &amp; 101 Women)</b> |
| Ph.D. (Full time)             | - | <b>143</b>             | <b>(62 Men &amp; 81 Women)</b>  |
| Ph.D. Awarded                 |   |                        |                                 |
| - From University Departments | - | <b>66</b>              |                                 |
| - From Affiliated Colleges    | - | <b>165</b>             |                                 |
| <b>Total</b>                  | - | <b>231</b>             |                                 |

### 14. Citation index of faculty members and impact factor

Mean impact factor of the research publications of the faculty in the refereed journals ranges from **0.87 – 3.47**.

### 15. Honors / Awards to the faculty

- **Prof. A. Gnanam Best Teacher Award** was awarded to one faculty in the Department of Education Technology by the Pondicherry Psychology Association for his valuable service and contribution for the upliftment of society and Education Psychology.
- One faculty from the Department of Chemistry is recognized for **Alexander von Humboldt (AVH) Fellow**, University of Stuttgart, Germany
- One faculty from the Department of Chemistry is recognized as **Brain Pool Research Professor**, South Korea
- One faculty from the Department of Environmental Science received **Young Scientist Award** from DST, New Delhi
- One faculty from the Department of Environmental Science was selected as Member, **International Expert Panel on Water Research, Academy of Finland**

## 16. Internal resources generated

|                                |   |                       |
|--------------------------------|---|-----------------------|
| Rent                           | - | <b>Rs. 27, 97,772</b> |
| Sale of Books and Tender Forms | - | <b>Rs. 17, 65,215</b> |
| <b>Total</b>                   | - | <b>Rs. 45, 62,987</b> |

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

|   |   |                                 |
|---|---|---------------------------------|
| Number of Departments received SAP assistance | - | <b>06</b> (Continued from 2003) |
|   | - | Mathematics                     |
|   | - | Economics                       |
|   | - | Chemistry                       |
|   | - | Linguistics                     |
|   | - | Bio-technology                  |
|   | - | Tamil                           |
| Grants Received                               | - | <b>Rs. 8, 45,854</b>            |

## 18. Community Service:

### *Department of Bio-Technology*

- Department of Bio-technology has organized **Blood and Eye Donation Camp**.

### *Department of English and Foreign Languages*

- Organized a one day Orientation on aspects of **Communication Skills** for teachers of English from schools.

### *Department of Psychology*

- Signed a MoU with the Air Force Hospital to render Counseling Services to the Air Force Personal and their family members.
- Organized a **Mind-Body Health Promotion Camp** in collaboration with Lavanya Hospital.

### *Department of Environmental Sciences*

- Organized environmental awareness programme
- Organized Anti plastic campaign
- Conducted environmental Quiz to School children
- Organized Vermicompost Training for Rural people
- Conducted training on *Vetiver* Plantation and Harvest to farmers
- Organized Rain water harvesting
- Initiated process of nitrate removal and designing of community level treatment plant
- Initiated remediation of contaminated water and sites using microbes and plants
- Organized Biodiversity park

### *National Service Scheme*

- Organized a mega rally on **World Blood Donation Day**. Nearly five thousand students were participated.
- Organized an awareness generation programme on **National Cancer Day** in collaboration with Ramakrishna Hospital.

### *Youth Red Cross*

- Organized one day Training programme for YRC Students at College campus on **First Aid, YRC Principles and Aids Awareness**.
- YRC Volunteers visited **ABEX Deaf School** and identified blood groups for deaf students.
- Organized Blood Donation camp for **Martyr's day**.

**19. Teachers and officers newly recruited:**

|                           |   |           |
|---------------------------|---|-----------|
| Teaching Staff Recruited  | - | <b>43</b> |
| From the Same Institution | - | <b>02</b> |
| From other Institution    | - | <b>38</b> |
| From other States         | - | <b>03</b> |
| <b>Total</b>              | - | <b>43</b> |

**20. Teaching - Non teaching staff ratio:**

**1: 2.14**

**21. Improvements in the Library Services:**

- **Chip based Smart ID** cards are issued for multiple purposes to teaching and Non teaching staff and the students. The cards can be used for
  - borrowing of books
  - entry to journal section
  - research reference rooms
  - Internet centre
  - e-journals centre
  - research labs and
  - DRDO lab.

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

**From University Fund**

**Rs. 55.90** lakhs

**From UGC Fund**

**Rs. 33.00** lakhs

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

Feedback mechanism is introduced at the department level which forms the basis for

- introduction of new papers
- revision of existing papers
- self appraisal of individual teachers
- 

**24. Unit cost of education :**

Unit cost of education including salary is (in Lakhs) **Rs. 0.650**

Unit cost of education excluding salary is (in Lakhs) **Rs. 0.185**

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

- Entire admission process is computerized.
- Administrative block is Networked with Internet facility

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

- A common **service centre** has been created to accommodate the following under one roof.
  - **Bank.**
  - **Post Office.**
  - **Women Care Centre.**
  - **Travel Desk.**
  - **Saloon.**
  - **ATM**
- A separate **ladies hostel** which could accommodate **190** students is constructed

**27. Technology up gradation:**

- Strengthened the internet centre by providing wider bandwidth, more systems and latest software packages.
- Established a **New Lab** for English language teaching.

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

- All the first year post graduate students and research scholars are given training in e-mail usage and given separate timing for e-mail usage in the internet centre
- Specialized software like SPSS were introduced through special programmes conducted by the department of Extension and Population Studies.

**29. Financial aid to students:**

| <u>Name of the Scholarship</u> | <u>Amount Distributed</u> |
|--------------------------------|---------------------------|
| B.C. & M.B.C.                  | <b>31, 47,865.00</b>      |
| SC & ST                        | <b>33, 37,850.00</b>      |
| G.O.I. Scholarships            | <b>29,770.00</b>          |
| Merit Scholarships             | <b>2, 000.00</b>          |
| <b>Total</b>                   | <b>65, 17,485.00</b>      |

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

- Alumni in the Computer Science, Management, Bio-technology, Physics, Chemistry met the final year students of the respective departments and oriented the final year students / research scholars for placement / post doctoral fellowships

### **31. Health services:**

- A health insurance scheme to students, teachers and non teaching staff is introduced with a nominal premium
- Fitness centers for both men and women with latest equipment were setup

### **32. Performance in sports activities:**

#### **Kabaddi (Men)**

- Winners in CICAAB Kabaddi Tournament
- Runners in Bharathiar University Inter Collegiate Kabaddi Tournament

#### **Kho-Kho (Men)**

- Runner in Bharathiar University Inter Collegiate Tournament
- Runner in CICAAB Kho-Kho Tournament

#### **Handball (Men)**

- Winners in Bharathiar University Inter Collegiate Tournament
- Winners in CICAAB Handball Tournament

#### **Hockey (Men)**

- Third place in Bharathiar University Inter Collegiate Hockey Tournament

#### **Handball (Women)**

- Winners in Bharathiar University Inter Collegiate Tournament
- Winners in CICAAB Handball Tournament

#### **Hockey (Women)**

- Runners in Bharathiar University Inter Collegiate Hockey Tournament

### **33. Incentives to outstanding sports persons:**

- Preference in admission for M.C.A. and M.B.A. programmes is given for outstanding sports persons.
- The students of B.P.Ed. and M.P.Ed. are given preference during the admission for higher education.

### **34. Student achievement and awards:**

- One student in the Department of Botany received **Post Doctoral Fellowship in Taiwan**
- One student in the Department of Bio-technology received **DST Women Scientist Fellowship**, New Delhi
- In the Department of Chemistry **Six** Ph.D. students received **Post Doctoral Fellowship** in USA, UK, France, South Korea, Japan and Malaysia

### **35. Activities of the guidance and counseling unit:**

- A website called [www.evarsity.org](http://www.evarsity.org) has been hosted to provide career oriented counseling for students and teachers by the Department of Extension, Career Guidance.
- Faculty members of psychology provided personal counseling for the students.
- The Department of Extension & Career Guidance has conducted an aptitude test similar to the one administered by the IT & ITES companies for the benefit of 18,300 students drawn from 55 colleges of Bharathiar University and University departments
- Performance of the students were analyzed and the reports were submitted to their respective colleges
- Based on the performance of the students remedial programmes were suggested

### 36. Placement services provided to students:

- A series of Career Guidance programmes are organized to make the students industry ready
- A website called [www.civilservicecoach.org](http://www.civilservicecoach.org) is hosted to create awareness on civil service career to the students on campus and off campus
- Placement brochures are regularly prepared and sent to potential employers for M.B.A., M.C.A. and Computer Science students
- A separate link in the home page of the University website is created for placement
- Aptitude coaching classes are regularly conducted for students
- In the Department of Zoology, Hands on Training is given to students to enhance their employability
  - Training on Polyacrylamide Del Electrophoresis (PAGE)
  - Training on Agarose Gel Electrophoresis (AGE)
  - Motivation Seminar on Life Skills

### 37. Development programmes for non –teaching staff:

The Registrar's office of Bharathiar University conducted the following development programmes for non-teaching staff.

| Sl.No. | Title of the Course       | Duration                    | No. of Participants |           |           |
|--------|---------------------------|-----------------------------|---------------------|-----------|-----------|
|        |                           |                             | Male                | Female    | Total     |
| 1      | Microsoft Word and FoxPro | 12.10.2007 to<br>07.12.2007 | 19                  | 17        | 36        |
| 2      | Microsoft Excel           | 25.02.2008 to<br>24.03.2008 | 18                  | 15        | 33        |
|        | <b>Total</b>              |                             | <b>37</b>           | <b>32</b> | <b>69</b> |

### 38. Healthy practices of the institution

- Developed a good rapport with neighboring Institutions
- Conducted many National / International conferences, seminars and workshops
- Created linkages with National / International academic and research bodies
- Offered need based consultant services to the academia industry and society
- Conducted **Finishing School** to increase the employability among the students
- Signed MoU for offering Yoga related courses
- **Kaitharikkku Kaikuduppom** - The University has committed to a social cause of reviving the sick units in the handloom sector, by involving the students and the staff in the purchase and sale of handloom products to public. A record sale of rupees **one crore** was achieved in the programme.

### 39. Linkages developed with National / international, academic / research Bodies

- **The Department of Botany** has linkages with the following institutions

#### National level

- UPASI Tea Research Institute, Valparai
- Botanical Survey of India, Southern Circle, Coimbatore
- Institute of Forest Genetics and Tree Breeding, Coimbatore
- Sugarcane Breeding Institute, Coimbatore
- Cotton Research Institute, Coimbatore
- IARI, Regional Station, Wellington

#### International level

- Chinese Academy of Sciences, China
- Mercer University, Atlanta, USA

- **The Department of Zoology**

- Department of Science and Technology
- Department of Bio Technology
- National University, Korea

- **The Department of Environmental Sciences**

- Centre for Environmental Education
- ISI, Kolkata
- Pasteur Institute, Coonoor
- ISRO, Bangalore
- NEERI
- NML
- Ashoka Ecological Research Centre, Bangalore
- IISc, Bangalore
- RRL, Tiruvananthapuram
- NIO, Goa
- ITRI, Lucknow

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

- Bharathiar University has provided **Free Education** to poor students every year in the various departments of the University. Merit cum economic status is the main criterion for the selection of the students. Preference is given to the students based on the following

- 1) Parental status
- 2) Social status
- 3) Economics status
- 4) Academic status

Under this scheme **20** poor students were admitted without charging any fees i.e., Tuition fee, Examination fee and Hostel fee, etc. Mahakavi Bharathiar's vision is translated into action by these steps in the Bharathiar University.

- On the initiative of the honorable minister for School Education, Tamilnadu an innovative scheme of **adopting schools** by the colleges was introduced. Accordingly **120** affiliated college of Bharathiar University have adopted **120** schools. These schools were provided with basic amenities and financial assistance to the students as per their requirements.

**Part C: Detail the plans of the institution for the next year.**

- Initiate more consultancy service to industry and the society
- Increase the capacity of the existing courses to the tune of 20 to 30 percent
- Increase the capacity of the constituent colleges to admit more socially disadvantaged students
- Increase the admission research programmes
- Institute new programmes and strengthen the social science, education and humanities departments.
- Submission of a proposal for University with Potential for Excellence
- Submission of proposals for SAP / Continuation of SAP
- Make the campus green by promoting Birthday Garden
- Continuing the college level yatra by the Vice- Chancellor other senior officers for Grievance Readdressal.

**NAAC Co - ordinator**

**Registrar**

**Vice - Chancellor**