

Dnyanopasak Shikshan Mandal's  
**COLLEGE OF ARTS, COMMERCE AND SCIENCE**  
POST BOX No.54, PARBHANI-431401 (Maharashtra State)  
"College with Potential for Excellence - UGC Status"  
NAAC Re-accredited with 'A' grade



**ANNUAL PROGRESS REPORT  
OF  
"COLLEGE WITH POTENTIAL FOR  
EXCELLENCE" - II PHASE**

**2011-2012**

Submitted to

**THE UNIVERSITY GRANTS COMMISSION**  
Bahadurshah Zafar Marg, NEW DELHI

# ANNUAL PROGRESS REPORT OF UGC CPE-II SCHEME

## 27th September 2012

### 1. Historical backdrop of the Programme/Scheme:

The Principal of Dnyanopasak Shikshan Mandal's College of Arts, Commerce and Science, Parbhani, deemed it privilege and honor to present historical backdrop of the scheme of "**COLLEGE WITH POTENTIAL FOR EXCELLENCE**" sanctioned by the UGC, New Delhi **SECOND PHASE** undertaken during XIth Plan in the year 2011-2012.

It gives us an immense pleasure to present the critical assessment and appraisal of the achievements of the CPE Scheme and its activities which gives us the mixed feeling of sense of satisfaction about the work done (during 2011-2012) in this institution and the feeling that much more remains to be done in its endeavor to maintain Excellency and leadership in academic circles at National and International level. The basic aim of the scheme "College with Potential for Excellence" in the College is for improving and strengthening infrastructure and achieving excellence in teaching, research and outreach programmes and creating academic ambiance in the vicinity of the town.

### 2. Objectives and Silent features of the scheme:

#### A) Teaching Facility (U.G.):

1. To strengthen the academic and physical infrastructure for achieving excellence in teaching and learning at Under Graduate level.
2. To equip students and teachers with adequate latest skills and techniques to acquire global competencies in Teaching and Learning process.
3. To promote innovative learner-centered teaching methodology.
4. To enhance the involvement of the students and teachers in the digital classroom through power-point presentation having visible animation, which involves the students in the classroom situation of that particular concept?

#### B) Teaching Facility (P.G.):

5. To enable students and staff to enhance and update their computer knowledge and efficiency and be on par with the latest global trends.
6. To improve access to advanced educational experiences by allowing students and teachers to participate in remote learning communities using personal computers; and to improve the quality and effectiveness of education by using the computer to support a collaborative learning process.

**C) Research:**

7. To involve students and teachers in the preservation of scientific temper and research culture.
8. To up-date and train the teachers in the latest computer technologies to maintain research ambience among the researchers.
9. To provide hands on training and promote research among students.

**D) Extension:**

10. To promote the research ambience among the students, teachers and villagers the extension activity is mainly the application of knowledge to real life, problems faced on the ground/ field.
11. To communicate the acquired knowledge in skills and laboratories if taken to fields in respective areas would enrich students and teachers innovative ideas, which leads towards the excellence of individual and some total of excellence is the excellence of the institution that is why all the extension activities are necessary to make awakening of rural masses for betterment of tomorrows India.

**E) Other Activities:**

12. To employ latest technology as aid in teaching, learning and training in public speaking in order to develop the personalities of the students to enable them to acquire and strengthen qualities of leadership.
13. And above all to achieve global standards in education, training and research throughout the teaching and student communities of the college which would be effectively engaged in developing economy of the country.

**3. Impact of the CPE-II Scheme**

Faculty generally uses a power point presentation in classroom for interactive teaching learning live animation which helps in understanding the concepts and mechanism to the students. The hard copy and soft copy is provided to the students on demand. The science departments were provided with LCD and one LCD was fitted in common hall for social science department with broadband internet connectivity to enable faculties and students to enrich the teaching methodology and research. Faculties can brows the latest developments in their subject and get updated and upgraded in their respective areas of specialization and research among their peers.

**4. Budget allocation and Performance so far and for the reporting year (1<sup>st</sup> April, 2011 to 31<sup>st</sup> March 2012):**

1. In order to strengthening of Teaching Facilities 05 Classrooms have been provided the facilities of Digital Classroom with interactive Panaboard, LCD Projectors and Computer systems.

2. Equip, up-date and train the teachers in the latest computer technologies to maintain research ambience and to bring academic co-ordination with their international peers in their respective disciplines.
3. The Networking of all the digital classrooms and laboratories is done to provide latest information in teaching and research facilities.
4. Keeping in tune with economic development of country the Economics department is developed with well-equipped facilities and other learning resources.

The details of budget allocated during 1st April, 2011 to 31 March, 2012

Sr.No.	Budget head	Non-Recurring Amount (Rs, in Lakhs)	Recurring Amount (Rs, in Lakhs)
1.	Teaching Facilities (U.G.)	05.00	02.00
2.	Teaching Facilities (P.G.)	04.00	02.00
3.	Research Facility	03.00	02.00
4.	Extension Activities	01.50	01.00
5.	Other Activities	01.50	03.00
	<b>TOTAL</b>	<b>15.00</b>	<b>10.00</b>

**5. Coverage of the target group including number of Beneficiaries (College teacher, Students, Women, SC/ST etc.):**

In the Second phase of CPE scheme the target group is again the Teachers and Students and more attention is paid towards the teaching and research enhancement. After execution of the scheme the college has developed the digital classrooms and thereby enhancing the quality in education through the teaching facilities.

With inclusion of latest equipments and instruments in the science laboratories Teachers and Students are exposed to wide range of experiments from their syllabi and also in their projects and have developed a scientific temper among themselves which would prove to be the better asset to country.

The central networking facilities has enabled the students to getting in touch with all organizations in the world through network facilities and prepare themselves to suit the needs of the growing world through e-learning.

**6. Current Status, relevant important policy decision taken/changes made to the programme during 1.4.2011 to 31.3.2012:**

The College, as such has not made change in the policy of the CPE scheme during 01.04.2011 to 31.03.2012. However, with the cost effectiveness and by getting the discount in the purchase of equipments some new equipment are purchased in place of recurring items, which were not mentioned in the road map earlier sent to UGC.

**7. Good Action/photographs relating to Schemes/ Programmes:**

The photographs relating to Scheme are as follows:

Photographs of Digital Classrooms



Photographs of Digital Classrooms



8. Future Plans relating & development strategies :

Under the CPE Second phase scheme in the first year (2011-12) Rs. 25.00 lakhs have been spent on purchase of equipments and some softwares required for establishment of the Digital Classroom. In the second year (2012-13) the equipment useful for department of Microbiology, Chemistry, Botany, Zoology and Economics will be spend for recurring and non-recurring cost for purchase of Softwares, Books, Journals, Chemicals, Glassware and maintenance of equipments.

#### **9. Constitution of important Committees for policy purpose:**

The committee is constituted under the chairmanship of President D.S. Mandal Parbhani to decide future plans relating to developmental strategies and quality enhancement. The Committee constitutes the following members.

- 1) Adv. G.N. Dudhgaonkar - President
- 2) Dr. Sandyatai Dududhgaonkar - Member
- 3) Dr. U.M. Ingle - Member
- 4) Dr. P.L. More - Member Co-ordinator
- 5) Dr. P.B. Khanale - Member
- 6) Dr. M.N. Sondge - Member
- 7) Dr. W.N. Jadhav - Member
- 8) Dr. Shaikh Md. Babar - Mmber
- 9) Dr. A.S. Gangane - Member
- 10) Dr. A.T. Tawar - Member
- 11) Mr. S.M. Menkudle - Secretary

The Committee should function in identifying talent in teachers, training and retaining of the talented teachers, providing the quality infrastructure, getting feedback from stakeholders and making



appropriate suggestions for administrative and academic development of the institution.

#### **10. Any Conferences/Workshops/Symposia related to this Scheme :**

The Conference/Workshops/Symposia related to this Scheme have not been organized in the first year. However, we are planning to organize a National Conference in Second Year of the CPE-II. It is proposed that the Workshop or Symposia related to this Scheme may also be organized in the Second year (2012-13) if the adequate funds are generated from other sources.

#### **11. Agreements with other countries/International organizations :**

The agreement is not yet made with other countries or international organizations pertaining to the outcome of CPE-II Scheme. If better results are obtained such agreements can be possible.

#### **12. List of publications brought out or printed :**

##### **Dr. P.B. Khanale (Computer Science)**

1. "Cache Oblivious Matrix Multiplication Algorithm Using Sequential Access Processing" Research Journal of IT-AJV 3 | 1 pp 61-67 2011.

##### **Dr. R.B. Muley (Geology)**

1. R.B. Muley, S.M. Atkore and Md. Babar (2011). Hydrogeological study for Groundwater potential in areas of Dudhgaon, Parbhani District, Maharashtra. Groundwater Resource Development and Management in India – some glimpses, edited by N.J. Pawar, R.A. Duraiswami and Subhdyoti Das, Geological Society of India, Bangalore, pp. 30-39.

##### **Dr. Shaikh Md. Babar (Geology)**

1. **Md. Babar**, B.B. Ghute and R.V. Chunchekar (2011). Geomorphic indicators of Neotectonics from the Deccan Basaltic Province: A study from the Upper Godavari River Basin, Maharashtra, India. International Journal of Earth Science and Engineering, Vol. 4 (2), pp. 297-308.
2. **Md. Babar**, B.B. Ghute and R.V. Chunchekar (2011). Application of Remote Sensing, Geomorphological and Hydrogeological Studies for Groundwater Potential Of Indrayani Nala Macro-Watershed In Parbhani District, Maharashtra. Advanced Journal of Geographical World (AJGW), Vol.1 (1), pp. 46-51.

3. **Md. Babar** and I.I. Shah (2011). Remote Sensing and GIS Application for Groundwater Potential Zones in Tawarja River Sub-Basin, Latur District, Maharashtra, India. International Journal of Earth Sciences and Engineering (IJEE), Vol. 4 (3) Spl. issue, May 2011, pp. 71-79.
4. **Md. Babar**, R.V. Chunchekar, B.B. Ghute and Atkore, S.M. (2011). Faunal Assemblages of Quaternary Sediments in Manjra River Basin, Maharashtra, Bioscience Discovery Vol. 2 (1), pp. 5-9.
5. **Babar Md.** (2011). Hydrogeomorphological Analysis for Watershed Development In Jintur Tahsil, Parbhani Dist., Maharashtra. Indian Streams Research Journal, Vol. I (5) pp. 168-173.
6. **Babar Md.** and I.I. Shah (2011). Influence of Geological and Geomorphological Characteristics on the Groundwater Potential in Tawarja River Sub-basin, Maharashtra. Gondwana Geological Magazine, Spl. Vol. 26 (2), pp. 173-178.
7. **Babar Md.** and I.I. Shah (2012). Influence of Geological and Geomorphological Characteristics on Groundwater Occurrence in Deccan Basalt Hard Rock Area of Tawarja river Sub-Basin Latur, Maharashtra, India. Research Journal of Environmental and Earth Sciences, VOL 4 (4), PP. 440-447.
8. Pathani R.A., Kaplay R.D. and **Md. Babar (2011)**. Quaternary Faunal Record of Godavari River basin from Nanded District of Maharashtra. Gondwana Geological Magazine, Vol. 26 (1), pp. 63-66.
9. **Md. Babar** (2011). Integrated Studies on Water Resource Management and Conservation in Karpara River Sub-basin in Parbhani District by Using Remote sensing and GIS. Limnology: Current Perspective, Edited by Sakhare V.B., Daya Publishing House, New Delhi, pp. 39-47.
10. **Kadam S.U.** and Md. Babar (2011). Macrophytic Community Of Masooli Reservoir, Parbhani District, Maharashtra. Limnology: Current Perspective, Edited by Sakhare V.B., Daya Publishing House, New Delhi, pp.113-116
11. R.B. Muley, S.M. Atkore and **Md. Babar** (2011). Hydrogeological study for Groundwater potential in areas of Dudhgaon, Parbhani District, Maharashtra. Groundwater Resource Development and Management in India – some glimpses, edited by N.J. Pawar, R.A. Duraiswami and Subhdyoti Das, Geological Society of India, Bangalore, pp. 30-39.
12. **Md. Babar (2012)**. Roll of Remote Sensing in Disaster Management. In proceeding volume of State Level Seminar on Disaster Management in Maharashtra held on 17th and 18th February, 2012, ISBN No. pp.

**Dr. B.C. Khade (Chemistry)**

Sr. No.	Title of the paper	Name of the Journal	ISSN No	Vol., Page.	Year
1	Equilibrium Studies on Mixed Ligand Complexes of Drug phenylpropranolamine Hydrochloride with Chromium and Cobalt Metal Ions	Journal of Chemical, Biological and physical sciences	2249-1929	Vol.2, No.1, pp 14-18	2012
2	Studies on ternary chelates of trivalent chromium metal ion with dipeptides Glycyl-DL-Alanine and Glycyl-g-Aminobutyric acid as primary ligands and amino acids, leucine and DL-alanine as secondary ligands.	Journal of ChemTech Research	0974-4290	Vol.4, No.1, pp 425-429	2012
3	Equilibrium Studies of calcium(II) complexes with drug Furosemide and some acids.	Journal of Chemical, Biological and physical sciences	2249-1929	Vol.2, Sec.A, pp 179-187	2011
4	Global Warming and the role of Indian constitution.	Indian Streams Research Journal	2230-7850	Vol. 1(3) 181-196	2011
5	Lead toxicity and the role of Indian constitution.	Research link	0973-1628	Vol. 2 12-14	2012
6	A Convenient one-pot synthesis of 2-Amino-4-phenyl-1, 8-Naphthyridine-3-Carbonitrile Derivative	Chemistry and Biology Interface	2249-4820	Vol. 2(4), 228-233	2012

**Dr. P.S. Wakte (Microbiology)**

- Mohite, Y.S. and Wakte, P.S. (2011) "Photosynthesis, Growth and Cell Composition of *Spirulina platensis* (Arthrospira) Under Elevated Atmospheric CO<sub>2</sub> and Nitrogen Supplement." *J. Algal Biomass Utln.* 2(1), pp. 77-94. ISSN: 2229 – 6905
- Wakte, P.S. and Bhusare, D.U. (2011) "Statistical assessment of stability and compatibility of protease extracted from thermo tolerant *Bacillus licheniformis* BWU-1." *Curr. Bot.* (2)1, pp 34-38. Online ISSN: 2220-4822
- Bhusare, D.U. and Wakte, P.S. (2011) "Microbiological and physiological attributes of hot water sulphur spring of Unkeshwar." *Journal of Experimental sciences* (2)4, pp. 04-06. Online ISSN: 2218-1768
- Mohite, Y.S. and Wakte, P.S. (2011) "Assessment of Factors Influencing Growth and C-Phycocyanin Production of *Arthrospira platensis* from Meteoritic Crater Lake " *J. Algal Biomass Utln.* 2(2), pp. 53-68. ISSN: 2229 – 6905
- Wakte, P.S., Mohite, Y.S. & Bhusare, D.U. (2011) "Influence Of Metal ions on Growth and C-Phycocyanin Production in *Arthrospira* (*Spirulina*) *platensis*", *Recent Research in Science and Technology.* 3(5) pp. 104-108. ISSN: 2076-5061.
- Mohite, Y.S., Kadtan, K. & Wakte, P.S. (2011) "Antimicrobial Potential of *Syzygium cumini* L" *Journal of Pharmacy Research* 1,4(8) pp 2784-2786 ISSN: 0974-6943.
- Bhusare, D.U. and Wakte, P.S. (2011) "Purification of alkaline protease from thermotolerant *Bacillus licheniformis* BMU-1" In, "Advances in Biotech Research" *Proc. of International Conference on BTBT2011, AURANGABAD (M.S.) INDIA* (ed by A.M DESHMUKH et al) pp.268-278 ISBN No:978-93-80876-04-7.

**DR. A.V. Manwar (Microbiology)**

1. Ardhapurkar, N. A. and A. V. Manwar (2011) Study on direct mechanism of growth promotion of soybean, Asian Journal of Bio Sciences, Vol. 6(2), 191-193.[ISSN: 0973-4899]
2. S. U. Pokalwar, M. K. Mishra and A. V. Manwar (2011) Production and optimization of Bacterial cellulose by Gluconacetobacter intermedius isolated from Indian Grapes, Bionano Frontier, Vol.4 (1), 23-27.[ISSN 0974-0678]
3. Aithal, S. C., A. A. Sawalika and A. V. Manwar (2011) Production of fungal amyloglucosidase by solid state fermentation using Agriculture Biomass, Bionano Frontier, Vol. 4(1), 31-35. [ISSN 0974-0678].
4. Rakh, R. R., L. S. Raut, S. M. Dalvi,.. and Manwar, A. V (2011) Biological control of Sclerotium rolfsii causing stem rot of Groundnut by Pseudomonas cf. monteilli 9, Recent Research in Science and Technology, 3(3), 26-34. [ISSN: 2076-5061].
5. Bhuktar, J. J. and A. V. Manwar (2011) Comparative study on decolorization of DNB by pure culture (IE1 and C1) and their consortium, Bionano Frontier, Vol. 4(2), 228-233. [ISSN 0974- 0678].
6. Kshirsagar, S. V. and Manwar A. V. (2011) Screening of siderophore producing Bacteria from lonar lake, J. Microbial World, 13(2), 184-191 [ISSN 0972-1487].
7. Pokalwar S. U., Krishna Kataavarapu, Krishnanand Tiwari, Sunil N. Shebannavar, Maheshwari K. Mishra and Manwar, A. V. (2011) Preparation and evaluation of bacterial cellulose membrane as an alternative adherent surface material from mammalian cell culture, International Journal of Current Research, 3(8): 58-61. [0975-833X].
8. Ardhapurkar N. A., and Manwar A. V. (2011) In vitro study of indirect mechanism of plant growth promotion, Indo American Journal of Pharmaceutical Research, 201(3): 174-180. [2231-6876].
9. Ardhapurkar, N. A. and Manwar A. V. (2011) Study on phosphare solubilization by plant growth promoting bacteria, Thematic journal of Environmental Science, 10-11. [ISSN- 2230- 8474].
10. Bhuktar, J. J. and Manwar A. V. (in press) Studies on Microbial decolorization and degradation of DB71 and RBS Dye by bacterial isolate IE1, International Journal of Biotechnology and Biosciences, Vol. (1), Oct-Dec., 2011, 437-443.[ISSN- 2231-0304].

**Dr. Shiva Aithal (Microbiology)**

1. Aithal S.C., A.A. Sawalika and A.V. Manwar (2011) In Press.Production of Fungal Amyloglucosidase by Solid State Fermentation Using Agicultural Biomass.BionanoFrontier Vol.4 (1), ISSN 0974-0678.
2. Shiva C. Aithal and N. S. Kulkarni (2011) "MISS: Microbially Enhanced Sedimentary Structures" in the Journal Everyman's Science Vol. XLV No. 6, pp 356-360, published by Indian Science Congress association, ISSN 0531-495 X.

Principal