

UNIVERSITY GRANTS COMMISSION NEPAL  
QUALITY ASSURANCE AND ACCREDITATION FOLLOW UP FIELD ASSESSMENT  
OF COLLEGE OF BIOMEDICAL ENGINEERING AND APPLIED SCIENCES

Visit Dates

Start	10 June 2016 (28 Jeshta 2073)
Exit	12 June 2016 (30 Jestha 2073)

Prof. Dr. Shiba Kumar Rai (PRT Coordinator)  
Dr. Shyam Prasad Lohani (QAA Director)  
Sagar Mani Neupane (QAA Program Officer)

A Quality Assurance and Accreditation Assessment Follow-Up Visit Report

854, Dhana Ganesh, Handigaun, Kathmandu

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SECTION: A  
GENERAL INFORMATION

<b>Name and address of the Institution</b>	College of Biomedical Engineering and Applied Sciences (CBEAS)
Telephone Number	01444 1467
Fax Number	014437822
P O Box	12521
E-mail Address	principal@biomedical.edu.np, muraripokhrel@gmail.com
Website	www.biomedical.edu.np
Facebook Page	www.facebook.com/biomedicalnepal
Date of Establishment	16-07-2005
Type	Private (Private Limited)
Funding Provision	Self Generated (Students' Fee)
Affiliating University	Purbanchal University/ Approved by Nepal Engineering Council

**Current Academic Programs Offered by the Institution**

Academic Programs	No.	Faculties
Bachelors	1	Bachelor in Biomedical Engineering
Any other (specify)	-	

**Departments, Faculty Members, Nonteaching Staff and Students**

	Number/ Remarks
Departments	3; Humanities and Management; Science and Medicine and Biomedical and other Engineering
Full Time Faculty Members	16 (1 PhD, 11 Masters, 4 Bachelor)
Part Time Faculty Members	12 (12 Masters)
Non teaching staff	24 (Officer: 2, Non- Officer:13 , Support : 9)

**Number of Students**

Level	Year	Girls	Boys	Total
Bachelor	1 <sup>st</sup> Sem.	24	19	43
	3 <sup>rd</sup> Sem.	28	23	51
	5 <sup>th</sup> Sem.	26	24	50
	7 <sup>th</sup> Sem.	35	13	48
	Total	113	79	192

**Annual Graduate output:**  
35 out of 46 (Data of 2072 Chaitra)

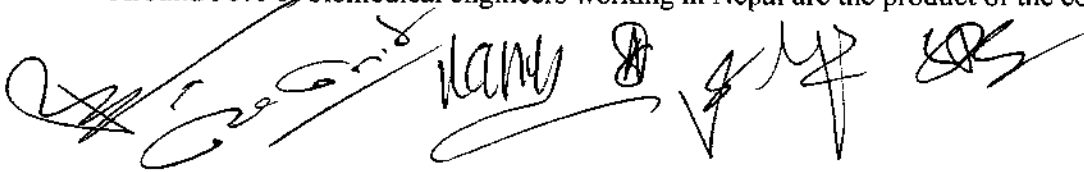
SECTION B  
SPECIAL FEATURES OF THE INSTITUTION

***Special Features of the Institution***

College of Biomedical Engineering and Applied Sciences is only one Biomedical Engineering undergraduate college in Nepal. It is located at Hadigaun, Kathmandu. It has been playing a crucial role to produce technically sound human resources in the field of biomedical engineering in Nepal. It has been catering around 60 competitive and talent students from all over the countries annually. The major features of the college are:

1. It is only one biomedical engineering undergraduate college in Nepal and has been admitting 60 students in each year.
2. Pass percentage of the college is about 88%.
3. Graduates of the college are able to achieve scholarships abroad. Over a dozen of students have achieved direct admission in PhD.
4. The enrollment of the girl-students is remarkable. Girl students constitute 39.4% in total.
5. The college has conducted international conferences.

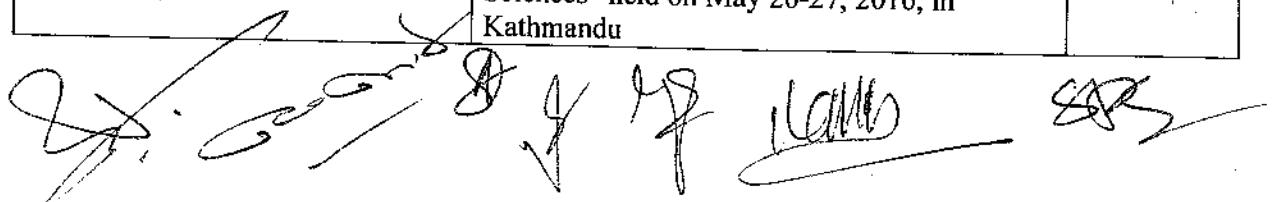
Around 90% of biomedical engineers working in Nepal are the product of the college.

A series of handwritten signatures and initials in black ink, including the name 'KAMU' and several stylized initials.

SECTION: C  
OVERALL IMPRESSION

Based on Progress Report submitted to UGC, the Follow-Up Team interacted with different stakeholders and visited different wings and premises of the campus to verify the report. The team has found positive commitments from all the stakeholders for the betterment of the college during the course of interaction. The college has accomplished the priority recommendations and some of the general recommendations. Similarly, it has prepared time bound action plan to comprehend the remaining general recommendations made by Peer Review Team (PRT) during PRT Field Assessment.

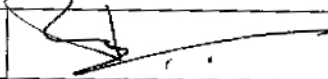
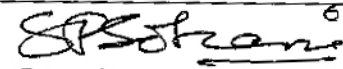
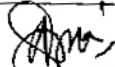
PRT Priority Recommendations	Follow Up Team Observation	Remarks
<p>The college should prepare plan for the professional career development of faculty members. Faculty members should be appointed/ promoted with designation following the criteria and procedure of affiliating university.</p>	<p>The college has developed Regulation: "Faculty Designation and Appointment Regulation 2073 (शिक्षकको पदपूर्ती तथा पदोन्नति नियमावली- २०७३)". Appointment and promotion of teachers are regulated from this regulation.</p> <p>Further, the College has endorsed Career Development Plan of Faculty 2072.</p>	
<p>The college should ensure retention of teachers particularly of core subjects (Biomedical Engineering Subjects). Further it should emphasis on teachers to participate in faculty development programs such as seminars, workshops, trainings, orientation and refresher courses.</p>	<p>To ensure the retention of the teachers in the core subjects, the college has been implementing the regulation "Faculty Designation and Appointment Regulation 2073".</p> <p>The college has endorsed "Guidelines for participation of Teachers in National and International Conferences, Seminars 2072".</p> <p>Following the Guidelines, the college has facilitated its teachers to take part in faculty development programs such as seminars, workshops, trainings, orientation and refresher courses.</p> <p>Recently eight teachers participated in "International Conference on Biomaterials, Biodiagnostics, Tissue Engineering, Drug Delivery and Regenerative medicine (BiTERM-2016) held in IIT, New Delhi in 15-17 April, 2016. Dr. Shrivastava, the principal, was one of the key note speakers of the conference. Further, one faculty member participated in International Conference on "Application of Mathematics to Non-linear Sciences" held on May 26-27, 2016, in Kathmandu</p>	



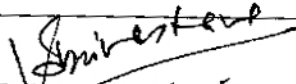
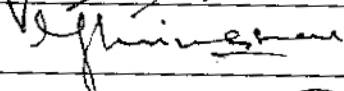
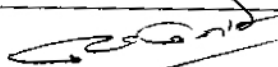

<p>There should be balance of faculty members from relevant subject background as per criteria of the professional council. More emphasis should be given to hire teachers from biomedical engineering background.</p>	<p>The College has followed Nepal Engineering Council norms regarding the number of faculty members from relevant subject background.</p> <p>The College has emphasized to hire full time faculty members from Biomedical Engineering background.</p>	
<p>Student feedback on teachers' performance, employers' feedback, monitoring students' achievements and maintaining teachers' work diary need to be made regular, more effective and systematic. For this, there should be regular and scheduled interactions with the stakeholders including parents, teachers and community. The entire activities should be documented.</p>	<p>For the enhancement of feedback system: The college has developed a Questionnaire regarding student feedback on teachers' performance and published it on College website. Further, students are educated to fill the questionnaire.</p> <p>The college has developed its Calendar of Operation. It has fixed the date for Meeting with Employers, Local Community and Parents. The campus has committed to continue the system.</p> <p>The college has regulated the monitoring system of students learning activities using different means such as class observation, student-teacher interactions, and evaluation by two internal tests and assignments. Further, database of students' performance in examinations has been maintained.</p> <p>Teachers' Diaries (Lesson Plan) have been prepared.</p>	
<p>Upgrade of Bio-medical labs is required by upgrading some of the machines/equipments. Some digital machines/equipment can be added in the laboratory. Further, the college should make manual and standard operating procedure (SOP) for the every laboratory. Lists of practical with tentative dates need to be displayed.</p>	<p>Upgrading the equipment in Bio-medical labs, the campus has added different equipment such as Cell Counter and Bio-chemistry Analyzer.</p> <p>The College has developed Standard Operating Procedures (SOPs) and laboratory manuals for all laboratories. Further, list of practical with tentative dates has been prepared and displayed.</p>	
<p>Library service should be upgraded and be automated and more number of reference books and e-resources should be added.</p>	<p>Library service has been automated. The library has been upgraded by adding some e-Books (including reference books). Similarly, the college is about to install an EMIS software.</p>	

It is suggested to implement the Plan of Action to address general recommendations made by PRT. Finally, the team suggests for consistent efforts to maintain and improve the overall quality.

***PRT Follow-Up Team***

Prof. Dr. Shiba Kumar Rai, PRT Coordinator	
Dr. Shyam Prasad Lohani, QAA Director	
Sagar Mani Neupane, Program Officer, QAAD	

***College of Biomedical Engineering and Applied Science, Chairperson/College Chief, Vice Principal and Chief Administrative Officer***

Dr. Vishwa Prakash Shrivastava, Principal and Head of the CMC	
Prof. Dr. Uma Shrivastava, Vice- Principal	
Mr. Murari Binod Pokhrel, Chief Administrative Officer	
Mr. Bhesh Raj Kanel, SAT Coordinator	

12 June 2016  
854, Dhana Ganesh,  
Handigaun, Kathmandu