Outcome-Based Education (OBE) Implementation

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AMRITA VISHWA VIDYAPEETHAM





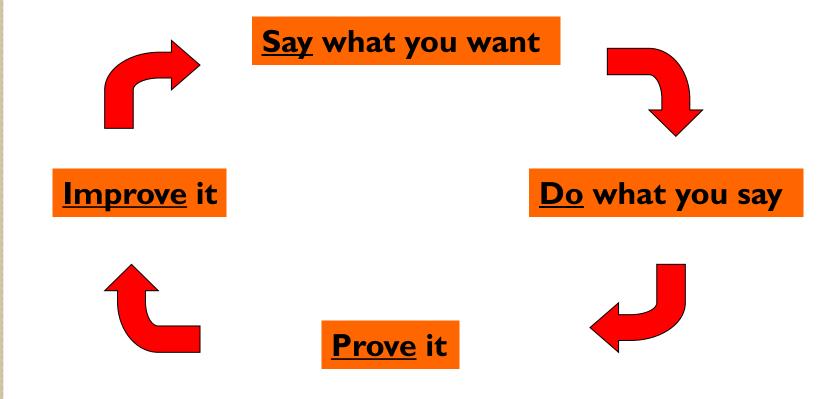




"In God we trust, but for everything else, we need data and that data needs to be supported by evidence"

Outcome-Based Education

Continuous Quality Improvement (CQI)



Outcome-Based Education Versus Traditional Education Process

OBE shifts from measuring input and process to include measuring the output (outcome) (Long-term) (Short-term) **Program** Program & Input **Education Process** Subject **Outcomes Outcomes** Teaching Staff **Graduates** •Curriculum Teaching & **Students at** to Fulfill Learning **Graduation** Stakeholders' •Labs **Satisfaction** Other Resource Stakeholders: Assessment by exam, test and assignments. EAC Assessment of teaching staff, lecture material & flow, **Employers** Industry Advisors results and student 'capabilities' (Short & long-term outcomes), lab Academic Staff interview, exit survey etc. **Public and Parents** More 'thinking' projects, with analysis. **Students** • Feedback from industry, alumni and other stakeholders. Alumni • Clear continuous improvement step.

Roles of Faculty

- Review PEOs, POs, course structures and syllabi.
- Teach the relevant engineering, maths, and other relevant subjects.
- Conduct relevant tutorials and laboratory practical sessions.
- Give appropriate guide on assignments and projects.
- Conduct empirical measurements of POs.
- Prepare the required documentation.
- Assure EAC and public on the standard of our graduates.
- Obtain and maintain accreditation from EAC through Continuous Quality Improvement (CQI).

Roles of Students

- Know the required Programme Outcomes and Programme Objectives
- For each course, review the Learning Outcomes at the beginning of each semester. This gives you an idea of the knowledge and skills expected from a particular course.
- Be more proactive in the learning process to acquire the Learning Outcomes of subjects.
- Demonstrate through the assessment methods that the required skills and knowledge have been acquired.
- Attain the Programme Outcomes and Programme Objectives as a whole during the entire programme.
- Give constructive feedbacks on the programme/course/academic staff to obtain accreditation through active participation in Online Teaching Evaluation, Academic Advisory System, dialog sessions with Dean, etc.

IQAC Best Practice: Department Academic Advisory Committee (DAAC)

Objective & Context

- Constituted for effective implementation of OBE process and guidance of academic matters such as:
 - Vision & Mission
 - Program Educational Objectives (PEO),
 - Program Outcomes (PO) & Program Specific Outcomes (PSO)
 - Curriculum design & syllabus,
 - Quality of teaching-learning-evaluation,
 - Course and program outcome attainment
 - Curricular projects
 - Student mobility
 - Overall continuous improvement of all academic processes

IQAC Best Practice: Department Academic Advisory Committee (DAAC)

The Practice

DAAC conducts periodic academic audits focusing on:

- Actual syllabus completion against the course plan
- Teaching pedagogy, materials, methods and tools
- Feedback from the students from Amrita University Management System (AUMS)
- Actual CO attainment and marks analysis, i.e. improvement in attainment with respect to the implemented action plan
- Difficulty level of the Question papers in Periodical # I,
 Periodical # 2 and End-Semester

IQAC Best Practice: Department Academic Advisory Committee (DAAC)

Outcome: Continuous process improvement & NBA accreditation

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg, Pragati Vihar, New Delhi-110 003 Tel: +91 11 2436 0620-22; Telefax: +91 11 4308 4903 Webelite: www.phipind.org



To The Principal, Amrita School of Pharmacy, AIMS Health Sciences campus, AIMS Ponekkara P.O, Edappilly, Kochi, Ernakulam-682 041, Kerala

Subject: Accreditation status of program applied by Amrita School of Pharmacy, AIMS Health Sciences campus, AIMS Ponekkara P.O, Edappilly, Kochi, Ernakulam-682 041, Kerala.

Sir,

This has reference to your application LD. No. 1932-14/06/2016 seeking accreditation by National Board of Accreditation to UG Pharmacy program offered by Amrita School of Pharmacy, AIMS Health Sciences campus, AIMS Pone

2. An Expert Team conducted on-site evaluation of the program from 09th to 10th December, 2017. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The competent authority in NBA has approved the following accreditation status to the program as given in the table below:

SI. No	Name of the Program (UG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Pharmacy	January 2016 Document	Provisionally Accredited	Academic Years 2017-2018 to 2019-2020 i.e. upto 30-06-2020	Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the competent authority, whichever is earlier

- It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.
- 4. The program has been granted provisional accreditation. Amrita School of Pharmacy, AIMS Health Sciences campus, AIMS Ponekkara P.O. Edappilly, Kochi, Ernakulam-682 041, Kerala should submit the Compliance Report at least six months before the expiry of validity of accreditation mentioned above to be eligible to be considered by the concerned Committee in NBA for further processing of the accreditation status. This could entail further extension of accreditation or a revisit, as deemed appropriate by NBA Committees.
- 5. The accreditation status awarded to the program as indicated in the above table does not imply that the accreditation has been granted to Amrita School of Pharmacy, AIMS Health Sciences campus, AIMS Plonekkara P.O. Edapplily, Kochk, Ernakulam-682 041, Kerala as a whole. As such the Institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is program accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously. Complete name of the program accredited, level of program and the period of validity of accreditation, as well as the Academic Year from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.



Department of Chemical Engineering & Materials Science, Amrita Vishwa Vidyapeetham, Coimbatore – 641 112

<u>Department Academic Advisory Committee – Course-wise Actions Proposed for Continuous Improvement</u>

Academic Year: 2018 – 2019 Semester – II (Even Semester)

Course Code / Name	Name of the Faculty	Previous Suggestions (Yes / No)	Course Summary Report to Department Academic Advisory Committee For End Semester Audit				
			% Syllabus completed	Overall CO Attainment	Suggestions implemented	Suggestions / Remarks (for Next Academic Year)	
	Dr. Udaya Bhaskar Reddy	Yes	100%	CO1 - 75.1	More time for course project.		
				CO2 - 91.1		The attainment for the course outcomes is higher than the target. The attainments for four consecutive years are higher than the target. It is recommended to DAAC that, the target may be raised.	
15CHE111				CO3 - 79.5			
- Introduction				CO4 - 67.3			
to Chemical				CO5 - 83.4			
Engineering				CO6 - 79.9			
				CO7 - 84.3			
				CO8 - 79.6			

Proposed Action Plan

- Faculty has been asked to continue to with the current teaching methodology
- 2. The target % may be kept at a higher level (60%)

Dr. Udaya Bhaskar Reddy Ragula Date: July 31, 2019 2. Swa

Chairman - Department Academic Advisory Committee

IQAC Best Practice: Documentation System

Course File

Ref	SECTION - A Class					
CAI	Details of the course with faculty mentors/sections					
CA2	Copy of the calendar where the class schedule					
CA3	Class Timetable (All sections)					
CA4	List of students/roll nos/M/F (Section-wise with faculty)					
CA5	Copy page of the curriculum and syllabus					
CA6	culty timetable of all.					
	SECTION - B Course Plan, Mappings					
CBI	Course Objectives with COs-POs + PSOs mapping (Full Matrix)					
CB2	Lecture plan - weekly basis - Assessments, Tutorials					
СВЗ	Evaluation pattern (as per BoS or approval based)					
	SECTION - C Assessments and Attainments					
CCI	Assessment marks (PI, P2, CA, ES) with Roll No.					
CC2	CO Attainment Chart - Direct Method					
CC3	Indirect Feedback details and compilation (All)					
CC4	CO Attainment chart - Indirect Method					
CC5	Final Course Committee minutes / Action taken report and feedback					
	SECTION - D Course Documents					
CDI	Work Register & Attendance status(signed copy)					
CD2	Question papers with Key with breakup + CO-BTL mapping chart					
CD3	Sample answer scripts (Best, average and Worst)					
CD4	Course Committee minutes					
CD5	Full mark list and results with analysis chart					
CD6	Course Feedback by students					
CD7	Instructional materials & Innovations					

IQAC Best Practice: Documentation System

Faculty File

Ref	SECTION - A Personal				
FA 堰	Detailed Faculty Biodata (copy of latest degree certificate)				
FA2er	Appointment Letters / Relieving Letters or Experience Certificates				
FA3g	Promotion Letters-all (Latest one is mandatory)				
FA4g	Incentives letters if available				
FA5g	Copy of FRAPS (Duly signed by self and Chairperson)				
FA6	Letters regarding admin+ other duties taken, In-charges etc				
FA 酒	Awards / recognitions / Invitations received -Proof				
FA8	Copy of 3 pay slips (May 2018, May 2017, May 2016)				
	SECTION – B Academics				
FBI	Semester-wise Faculty time table(Ensure 14 to 16 hours)				
FB2	Curriculums where the courses are available				
FB3	Copy of syllabus of the courses taught /teaching				
FB4	Course plan and evaluation pattern (Year wise)				
FB5	Student feedback (Official) + Personal feedback also if any				
FB6	Appreciations by students /Alumni (Mail or letter) if any				
FB7	Certificates of attending, Resource persons for FDPs/workshops etc				
FB8	Letters of having honorary positions – BoS, Committees, Professional bodies etc				
FB9	Full list of Project guidance +samples(UG/PG/PhD in separate)				
FB10	Interaction with industries on courses / development - Proof				
	SECTION – C Research				
FCI	PhD Guidance details + Fellowship to scholars and sources				
FC2	Full List of Publications (Journal-SCI/Journal / Conferences)				
FC3	Selected two or three best publications in full /Patents				
FC4	Detailed list of funded projects (Submitted, Ongoing and completed)				
FC5	Copy of funded projects / seed sanction letters /closure				
FC6	Awards / session chairs / Journal reviewer / Invited talks/ Events organized				
FC7	Industry consultancy with proof				

IQAC Best Practice: Documentation System

- Department Files
- College level Files

THANK YOU