



Outcome Based Education (OBE)

Simplifying Accreditations. An Education that Meets Expectations of Higher Education

Camu is steering academicians towards building newer skill sets within students and imbuing in them the ability to think critically and creatively.

The evolving landscape of the 21st century demands a more integrated and universal approach to higher education. The mandate for newer skills sets and qualifications within the global industry are only getting stronger, **while the need for local and international accreditations continue to be the benchmark desire of most universities for student enrolment.**

Camu Outcome Based Education (OBE) offers a long term, impactful solution in both regards. Compared to traditional teaching, Camu OBE offers a transformative and dynamic approach, one that places less emphasis on theory and more emphasis on application. Camu is steering academicians towards building newer skill sets within students and imbuing in them the ability to think critically and creatively. Rather than focusing on completing curriculums, teachers are invested in innovating and collaborating.

Focused on Outcome Attainment

Camu OBE drives an institution's academic efforts towards outcome attainment. In contrast to a traditional, teacher-centric approach, Camu focuses on the student's development and learning experience.

From curriculum planning and design, to teaching methodologies, assessment patterns and classroom activities, the holistic curriculum is driven by specific outcomes that students are expected to achieve at the end of their program i.e., professional and vocational skills, intellectual and technical skills, interpersonal and life skills. Based on these predefined set of goals, all processes are streamlined at the course, program and institutional level.

Teachers understand what they need to demonstrate throughout the course to help learners advance towards their outcomes.

Similarly, students have a clear goal to work towards, and comprehend what is expected of them, which guides them to think analytically and creatively instead of learning by rote.

PROGRAM ARTICULATION

Effective Year :2020

05 - B.E. Electrical and Electronics Engineering

Course	PO 01	PO 02	PO 03	PO 04	PO 05	PO 06	PO 07	PO 08	PO 09	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 1
19MA202 .1	3	3	2	1	-	-	-	-	-	-	-	-	1	2	1
19ME302 .2	3	2	2	-	-	-	-	-	2	2	-	1	1	1	1
19MC802 .3	1	1	1	-	-	2	2	2	1	-	-	-	-	-	-
19EY701 .4	-	-	1	-	-	-	-	1	2	1	-	1	-	-	-
19EN102 .5	-	-	-	-	-	-	-	-	2	3	-	-	-	-	-
19CV206 .6	3	2	2	-	1	1	-	-	-	-	-	-	2	3	3
19CS301 .7	-	1	-	1	-	1	1	-	-	-	-	-	-	-	-
EE6702 .8	2	3	1	-	-	-	-	-	-	-	-	-	-	-	-
EE8691 .9	2	2	2	-	2	-	-	-	-	-	-	2	-	-	-
EE8602 .10	2	3	1	-	-	-	-	-	-	-	-	-	-	-	-
EE8006 .11	3	1	2	2	2	-	-	1	-	-	-	-	3	2	2

COURSE ARTICULATION

Effective Year :2020

19CE305 - Engineering Geology

CO	Statement	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 2	PSO 1
CO 1.1	Explain the importance of geologic...	-	-	-	1	3	3	1	-	1	-	-	2	2	1
CO 2.2	List the properties of minerals...	-	1	3	2	1	1	2	-	-	-	1	-	2	3
CO 3.3	Interpret rocks through the assess...	-	2	1	2	-	2	1	-	-	2	-	1	2	1
CO 4.4	Summarize the types of geological ...	-	3	1	3	-	2	1	-	-	2	-	2	3	2
CO 5.5	Discuss the importance of applicat...	-	2	1	3	-	2	1	-	-	2	-	1	2	1
19CE305		-	2	1	2	1	2	1	-	-	1	-	1	2	2

19PH209 - Physics for Civil Engineering

CO	Statement	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 2	PSO 1
CO 1.1	CO1 Understand the basics of ther...	2	1	1	-	1	-	-	-	-	-	3	2	1	1
CO2.2	CO2 Remember the basics in acou...	1	1	2	-	2	-	-	-	-	-	3	3	1	1
CO3.3	CO3 Analyze the various lighting d...	1	1	1	-	2	-	-	-	-	-	3	3	1	-

Designed for Success

Camu is an integrated cloud-based platform that allows Outcome Based Education that offers unique advantages. By taking real-life situations and converting them into specific program outcomes, students are given the necessary skills to navigate a complex, future world. While teachers **foster an agile and immersive learning environment, students imbibe relevant industry experience even before they get employed.**

Future Ready Curriculum Design

Camu helps institutions design outcome-oriented curriculum that comply with all the regulations set by local and international accreditation bodies. Everything, from teaching methodologies to assessment patterns, are aligned with specific outcomes that meet the institution's vision and mission statements. Additionally, the syllabus reflects the needs of an ever-changing global economy.

CHART FOR OUTCOMES: INDICATE FURTHER STEPS TO BE TAKEN TO ACHIEVE OUTCOME



Outcome	Expected Attainment	Expected Attainment as % of Students	Actual Attainment	% Students with Expected Attainment	Outcome Description
CO 1	70	65	66.04	100	Analyze the correctness of algorithms using ind...
CO 5	30	18	74.98	100	Infer when a design scenario requires the applic...
CO 4	30	10	64.19	100	Construct algorithms using design paradigms lik...
CO 3	50	17	58.26	100	Analyze the performance of a sequence of oper...
CO 2	70	12	60.22	100	Analyze the worst-case, best-case and average-c...

Smooth Curriculum Delivery

Through the Camu Integrated Learning Management System & Student Information System, virtual classroom, performance charts and real-time interaction, Camu enables the smooth delivery of knowledge. From teaching plans to pre and post classroom activities, everything is aligned with outcome attainment.

Flexible Assessment Models

Camu generates OBE-qualified question papers from the approved question bank. The Blooms Taxonomy approach is used, wherein hierarchical models classify educational learning objectives into levels of complexity and specificity. **Faculty then generates question papers based on these domains, after which the system compares outcome attainment to expected attainment and proficiency, identifying any discrepancies through pre-set rubrics.**

Real Time Tracking

Camu OBE maintains supervision on student progress and teacher efficacy, with instantaneous tracking. Real-time performance charts allow teachers to analyse performance and evaluate instruction methodologies, to maintain an engaging and effective learning process. This, in turn, enables them to steer students towards outcome attainment.





Simplifying Accreditation

Accreditation communicates the calibre of the institution and is a benchmark for academic excellence.

Institutions who comply with OBE are more likely to receive institutional or departmental accreditation, as it is increasingly becoming the basis of educational merit. Additionally, they are more likely to receive research grants or any other kind of funding.

Camu OBE simplifies the time-intensive accreditation process with a ready-to-implement automated solution that offers up to 88% compliance with NAAC and NBA accreditations. With a presence in over 6 countries and a client base of 400+ institutions, Camu has the flexibility to adapt to any governance model.



Clarity - Camu maps operational processes to specific accreditation parameters. This effective alignment provides clarity on the scores that institutions are expected to achieve.



Accuracy - Camu's bank of 300 reports simplify the auditing process. Camu Analytics customise reports as per institutional needs, thereby reducing time investment, human error and discrepancies.



Preparedness - Camu tracks academic governance and quality compliance on a daily basis, keeping institutions accreditation-ready.



What makes Camu OBE the right solution

Goal Focused - Camu OBE helps institutions stay focused on what's important - their mission and vision, thereby preventing any deviation from program and course outcomes. It provides a clear sense of direction for all stakeholders – management, faculty, students, parents and the community, thus elevating the educational experience.

Future Oriented - The platform and model build into institutions a readiness for the future. This proactive approach creates an agile workforce that is ready to embrace any challenges that may come their way.

Quality Approved - OBE is the backbone of NBA and NAAC accreditations. Camu ensures that institutions comply with all the prerequisites set by the governing bodies as well as apply for their mandates in a timely and stress-free manner.

Technologically Savvy - Camu is a mobile first solution, offering an integrated digital campus experience for academicians. It enables institutions to comply with OBE in an easy, user-friendly manner.

Synergised - Camu links administrative and academic portals together, streamlining all information onto one platform, so that OBE can be achieved at its best. Camu OBE allows the data from LMS, SIS and Virtual Classroom to be analysed.

Action Oriented - From Real-Time Performance Charts to Graphs and Reports, Camu OBE is constantly at work. Institutions can identify any discrepancies between actual and expected outcome, and then take the necessary steps to correct it. Similarly, students and teachers can interact 24/7.

Camu OBE is a proven success in helping institutions measure their learning outcomes, and enabling students to develop new skill sets that prepare them to stand out amidst their global counterparts.



So that OBE can be achieved at its best. Camu OBE allows the data from LMS, SIS and Virtual Classroom to be analysed.

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