PATNA WOMEN'S COLLEGE

Autonomous
PATNA UNIVERSITY
3rd Cycle NAAC Accredited at 'A' Grade with CGPA 3.58/4
'College with Potential for Excellence' (CPE) status accorded by UGC

OUTCOME BASED EDUCATION (OBE) POLICY

1. Preamble

Patna Women's College (Autonomous) is committed to actively engage in the mission of higher education in India aimed at enhancing the competence of graduates to meet global standards. To ensure holistic development and measurement of student performance, the college shall implement a stringent and methodical Outcome Based Education (OBE) mechanism. The mechanism will focus on evaluating student performance based on outcomes, giving due weightage to knowledge, skills, and attitude. This educational philosophy of the institution will ensure that graduates are well-rounded and prepared to thrive in a globalized world.

2. Scope

The OBE framework will provide guidance for aligning the teaching and learning processes within the institution to achieve the expected outcomes during a student's academic tenure at the College.

2.1 The guidelines of this policy are applicable to the students, faculty, and staff of Patna Women's College.

2.2 The norms laid herein are applicable to all academic programmes, courses and curricular activities undertaken by the members.

3. Objectives

The following are the objectives of the OBE policy:

3.1 To establish a structured and comprehensive framework for teaching and learning processes that focuses on achieving specific learning outcomes by students.

3.2 To ensure that the graduates possess the desired knowledge, skills, and attitudes required for their professional and personal growth and are capable of meeting global standards.

3.3 To provide a student-centred approach to education that emphasizes measurable learning outcomes and continuous improvement in teaching and learning methods.

3.4 To design a learner-centric and outcome-focused education system.

3.5   To define Graduate Attributes and Programme Educational Objectives (PEOs) in alignment with the vision and mission of the College.

3.6   To establish an outcome-based assessment system that measures the attainment of outcomes at course and programme levels.

4.   OBE Committee

The OBE process in the institutionshall be governed by the committee. The composition of the committee is given below:

Principal	-	Chairman
Deans	-	Ex-Officio Members
Controller of Examinations	-	Ex-Officio Examination Office Members
IQAC Representative	-	Ex-Officio IQAC Member
Co-ordinator	-	Faculty Nominee
Members	-	Faculty Nominees

5.   Roles and Responsibilities

The roles and responsibilities pertaining to the implementation of OBE policy are as follows:

5.1   The OBE Committee shall be responsible for designing the policy and system of OBE and evaluating outcomes.

5.2   The committee is tasked with guiding the implementation of OBE in all departments of the institution.

5.3   The committee must periodically monitor the OBE process and conduct an annual review of its effectiveness.

5.4   The committee will be responsible for framing and mapping the graduate attributes, PEOs, PSOs, POs, and Cos of various programmes and courses.

5.5   The committee shall be responsible for collating and reviewing the attainment results of outcomes.

5.6   The committee shall be responsible for ensuring the quality assurance of the curriculum and pedagogical process of the institution in order to attain the desired outcomes.

6.   Definitions

6.1 Graduate Attributes

The level of understanding, knowledge comprehension, skill development, competencies, attitudinal formation that the students at the institute must imbibe during their education are termed as Graduate Attributes.

6.2 Programme Educational Objectives

The Objectives that the students are expected to attain after the successful completion of the programme are termed as Programme Educational Objectives. PEOs are drawn from the vision and mission of the institution. They highlight the academic and professional accomplishments expected to be achieved.

6.3 Programme Outcomes

Programme outcomes (POs) are the quantified and measurable results that are expected to be achieved by each student towards the end of the programme. In simple terms these are the graduate attributes that the students are expected to attain at the completion of the programme.

6.4 Course Outcomes

Course Outcomes (COs) are the quantified and measurable results that are expected to be achieved by each student on completion of each course. COs are specific to each and every course in a program.

7. Outcome Based Education (OBE) Framework

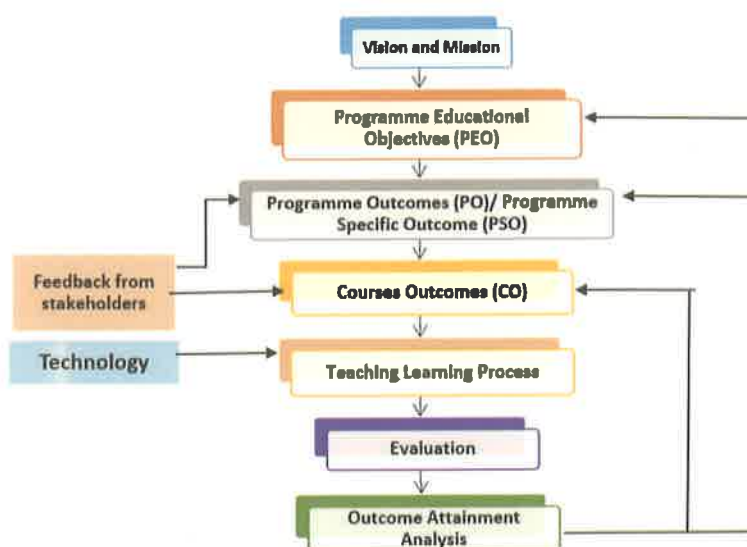The OBE framework of the Patna Women's College is depicted in Fig.1

Fig.1. Outcome Based Education Framework

i.   Outcome Based Education is learner- centric. The PEOs shall be drawn from the vision and mission of the College. POs, PSOs and Cos are to be derived from the PEOs.

ii. The teaching learning process must be developed according to the PEOs and POs.

iii. The Programme outcomes act as a reference guide to set the course outcomes (COs). The course curriculum shall aspire to fulfil the COs and POs.

iv. Pedagogy and teaching-learning processes shall integrate all essential components to achieve the outcomes.

v.   Formative assessment (CIA) and Summative assessment (End Semester Examination) shall incorporate in outcome attainment measurements.

vi. The OBE framework shall be improved based on Feedback received from stakeholders.

vii. The Outcome Attainment Analysis shall provide the necessary input regarding attainment of COs, POs and PEOs.

8.   OBE Implementation Process

The OBE implementation comprises of the following process:

i.   The OBE committee in consonance with IQAC shall ensure that the PEOs are in tandem with the vision and mission of the College.

ii. The POs and COs shall be defined by the department guided by the respective Deans.

iii. COs are to be framed using Bloom's Taxonomy specifying the different sub-domains of learning. The departments shall implement the necessary teaching-learning process and skill development activities for the fulfilment of these outcomes.

iv. OBE system shall be reviewed during the annual feedback from stakeholders.

9.   Outcome- Based Assessment and Evaluation

The assessment methods shall aim to evaluate the student performance at the course level in terms of attaining the COs and the performance of all the courses for the attainment of POs. The two methods of assessment, namely, *Formative* and *Summative assessment* are shown in figure Fig.2.
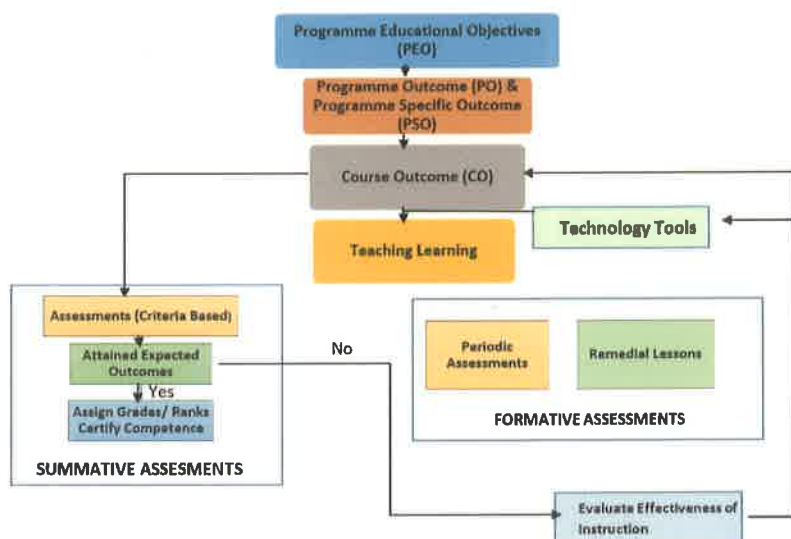

Fig. 2. Outcome Based Assessment and Evaluation

9.1 Formative Assessment

Periodic Assessment or Continuous Internal Assessment (CIA), which carries 30% weightage shall be the formative assessment under the OBE framework.

9.2 Summative Assessment

Summative Assessment shall be undertaken through an End Semester (ESE) and shall carry a weightage of 70% of the total assessment.

10. Mapping and Computation of Attainment Level

The implementation of OBE is complete with mapping and attainment level computation.

i.   Course outcomes shall be mapped with programme outcomes. One CO may be mapped with more than one PO and vice versa.

ii. The department shall ensure that all the COs are sufficient to measure the attainment level of POs.

iii. The attainment shall be measured at the programme and course level. Benchmarks shall be set for PO and CO attainment.

iv. Attainment of course outcomes shall be measured using two attainment indicators: CO attainment indicator 1 and CO attainment indicator 2.

v.   CO attainment indicator 1 shall measure the attainment at course level based on the percentage of students of a batch attaining the course outcomes across all the courses of a particular programme.

vi. CO attainment indicator 2 shall measure the attainment at course level based on the percentage of students of a batch attaining the course outcomes across all the courses of a particular programme.

10.1 Computation of CO Attainment for UG Programmes

Course Outcome Attainment Indicator 1 for UG programmes is shown in Table 1

Table 1. Course Outcome Attainment Indicator 1

Attainment Levels (Percentage of Marks)		Attainment Status
Level 2	50% and above	Attained
Level 1	Less than 50%	Not Attained

Interpretation

- Level 2: Average score of 50% and above in course outcomes of a particular course

- Level 1: Average score of less than 50% in course outcomes of a particular course.

Course Outcome Attainment Indicator 2 for UG programmes is shown in Table 2

Table 2. Course Outcome Attainment Indicator 2

Attainment Levels (Percentage of Students)		Attainment Status
Level A	More than 90%	Attained
Level B	More than 80%	Attained
Level C	More than 70%	Attained
Level D	More than 60%	Attained
Level E	More than 50%	Attained
Level F	Less than 50%	Not Attained

10.2 Computation of PO Attainment for UG Programmes

PO attainment shall be measured as the average percentage of marks obtained by all the students across all the courses of the programme that are mapped to a particular PO. The attainment of programme outcomes is indicated at two levels. Table 3 depicts the various levels of PO attainment in UG programmes.

Table 3. Levels of PO Attainment of UG Programmes

Attainment Levels (Percentage of Marks)		Attainment Status
Level 2	50% and above	Attained
Level 1	Less than 50%	Not Attained

Interpretation of PO Attainment Levels (UG)

- Level 2: Average score of 50% and above in courses mapped to a particular PO.

- Level 1: Average score of less than 50% in courses mapped to a particular PO.

10.3 Computation of CO Attainment for PG Programmes

Course Outcome Attainment Indicator 1 for PG programmes is shown in Table 4

Table 4. Course Outcome Attainment Indicator 1

Attainment Levels (Percentage of Marks)		Attainment Status
Level 2	60% and above	Attained
Level 1	Less than 60%	Not Attained

Interpretation

- Level 2: Average score of 60% and above in course outcomes of a particular course

- Level 1: Average score of less than 60% in course outcomes of a particular course.

Course Outcome Attainment Indicator 2 for PG programmes is shown in Table 5

Table 5: Course Outcome Attainment Indicator 2

Attainment Levels (Percentage of Students)		Attainment Status
Level A		Attained
Level B	More than 90%	Attained
Level C	More than 80%	Attained
Level D	More than 70%	Attained
Level E	More than 60%	Attained
Level F	Less than 60%	Not Attained

10.4 Computation of PO Attainment for PG Programmes

PO attainment shall be measured as the average percentage of marks obtained by all the students across all the courses of the programme that are mapped to a particular PO. The attainment of programme outcomes is indicated at two levels. Table 6 depicts the various levels of PO attainment in UG programmes.

Table 6. Levels of PO Attainment of PG Programmes

Attainment Levels (Percentage of Marks)		Attainment Status
Level 2	60% and above	Attained
Level 1	Less than 60%	Not Attained

Interpretation of PO Attainment Levels (PG)

- Level 2: Average score of 60% and above in courses mapped to a particular PO.
- Level 1: Average score of less than 60% in courses mapped to a particular PO.

11. Review of OBE System

The OBE committee shall review the OBE system of the institution based on stakeholder feedback and analysis of industry trends. Due attention shall be given to incorporate the needs of the students and developmental concerns of society and nation. The policy shall be updated by the OBE committee to incorporate changes in the Government policies, new trends in higher education and future innovations by the institution.

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